

			SIT	E 1017	НО	LE	B COR				CORED 5.3 - 14.8 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1.8	- V	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3. 3. 5. 6. 8. 7. 7. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.		1 2 3 4 5 6 7 CC	Quaternary		M/M	I D M	5Y 4/2 5Y 3/2	SILTY CLAY Major Lithology: This core consists of homogeneous olive gray (5Y 4/2) to dark olive gray (5Y 3/2) SILTY CLAY. Foraminifers and diatoms are present in quantities of <10%. No bedding is apparent. Minor Lithology: Thin, coarse-grained laminations and beds are composed of FORAMINIFER SAND. Most layers contain monospecific assemblages of Bolivina or Uvigerina and glauconite grains. General Description: The core is slightly disturbed by coring and shows slight bioturbation.

			SIT	E 1017		<u>LE</u>	B COR	<u>E :</u>			CORED 14.8 - 24.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
AWW.			2		1		***************************************	WWW		5Y 4/3	CLAYEY SILT WITH NANNOFOSSILS and SILTY CLAY WITH SAND Major Lithologies: This core is composed of light grayish olive (10Y 5/2) CLAYEY SILT WITH NANNOFOSSILS and olive gray (5Y 4/2) SILTY CLAY WITH SAND which show a few meters scale alternations. The boundaries are gradational.
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		J		3	V				5Y 4/2	Minor Lithology: Light olive (10Y 5/4) to olive (5Y 5/2) thin FELDSPAR QUARTZ SAND layers and pockets occur in Section 2, 21 cm, 60 cm, Section 3, 16 to 17 cm, 50 cm, 123 cm, 137 cm, Section 4, 101 cm, and 131 to 133 cm.
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		4		4	Quaternary	***************************************		I	10Y 5/2	General Description: The core is slightly bioturbated in lighter layers whereas there is no evidence of burrows in darker layers.
					5		•••		S _D S	5Y 4/2	
	7		8		6 CC		***************************************		S _D	10Y 5/2	

			SIT	E 1017	НО	LE	B COR	E	4H		CORED 24.3 - 33.8 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
www.m.			2		2			00000		5Y 4/2	SILTY CLAY  Major Lithology: This core consists of homogeneous dark gray to grayish olive (5Y 4/1 to 5Y 5/3) SILTY CLAY. Color changes are subtle and gradational. The silt fraction contains mainly quartz and feldspar with minor amounts of mica, glass, amphibole, and opaque minerals.  General Description: The sediments are homogeneous.
			4		4	Quaternary			S I	5Y 5/3	
			6				} }		S	5Y 4/2	
			8 - 9 -		6					5Y 4/1	
0 1	5 10	\[ \begin{array}{cccccccccccccccccccccccccccccccccccc	10		7 CC				S M	10Y 4/2	

			SIT	E 1017	HC	)LE	B COR	Ε :	5H		CORED 33.8 - 43.3 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	}	}	1		1			WW		10Y 4/2	CLAYEY SILT and SANDY SILT WITH CLAY  Major Lithologies: This core consists of grayish olive to olive gray (10Y 4/2 to 5Y 4/2) CLAYEY SILT and dark grayish olive to dark
			2		2			///		5Y 4/1	gray (10Y 4/1 to 5Y 4/1) SANDY SILT WITH CLAY. Quartz, feldspar, and rock fragments dominate the sand and silt fraction in the sediment. Color changes are gradational.  General Description:
}	}	<b>\</b>	3		3		}	/ / /	S		The sediments are homogeneous or slightly bioturbated. Slight fracturing related to gas expansion and/or dessication occurs throughout.
}		\ \ \ \	5		4	Quaternary	}		I	10Y 4/2	
}			6		5		}		S	5Y 4/2	
}		}	7		5		3			10Y 4/1 5Y 4/2	
}	\{\}		8		6		} } }		S	10Y 4/1	
}			9		7			//		5Y 4/2	
0 1	5 10 (	) 10 2	10 20		СĊ				М		

			SIT	E 1017	НО	LE	B COR	E	6H		CORED 43.3 - 52.8 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
}	}	}					}	!			SILTY CLAY and SILTY CLAY WITH SAND
	{		1		1		3				Major Lithologies: This core consists of grayish olive to light grayish olive (10Y 4/2 to 10Y 4/2) SILTY CLAY and SILTY CLAY WITH
	}	{	2				}			10Y	SAND. Color changes are subtle and boundaries are gradational.
}	{	}	l in line		2		}			4/2	Minor Lithology: Thin layers of QUARTZ FELDSPAR SAND occur in Section 1, 144 cm, Section 5, 103-105 cm, 114-115 cm,
}	}	}	3				}				and 129 cm.  General Description:
	}	}	4		3		}		S		The sediment is slightly bioturbated.
	\ \ \ \	}			Н	2	}		I		
}	}	}	5		4	Quaternary	}				
2	\ \	}	6_			G	}			10Y 5/2	
}	\	}	1		5		3				
}	\{ } }	}	7				<b>=</b> ⇒		S		
}	}	3	8 -				3		S		
{	}	\ \ \			6		}			10Y	
	}	$\left\{ \right.$	9		7		}			4/2	
	}	}	10		CC		}				
1 1	5 10	0 10 2	<u>Ш</u> 0		٣٩			-	M		l

			SIT	E 1017		LE	B COR	E :	7H		CORED 52.8 - 62.3 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1					10Y 4/2	SILTY CLAY WITH SAND  Major Lithology: This core is composed of dark olive gray (5Y 3/2) to grayish olive (10Y 4/2) SILTY CLAY WITH SAND which
			2		2		} } }		٥	5Y 3/2	shows a few m-scale faint color alternations.  Minor Lithology: Medium to fine grained thin FELDSPAR QUARTZ SAND layers occur at Section 2, 143 cm, Section 7,
Jwww.mrv			4		3	Quaternary	***		S	5Y 4/2	8 cm, and CC, 2 to 10 cm. Aragonitic shell fragments are scattered in Section 4, 40 to 50 cm.  General Description: The core is slightly to moderately bioturbated.
}	}	}			,		3		s ^D	5Y 3/2	
			8		6		} }		S	5Y 4/2 To 10Y 4/2	
0 1	5 10 (	0 10 2	10 20	MEETERS.	CC		***		SM		

			SIT	E 1017	НО	LE	B COR	E			CORED 62.3 - 71.8 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
7	{	7			1	Г	}			10Y 4/1	SILTY CLAY WITH SAND
			1		2		3 010 010 010 010			5Y 4/2	Major Lithology: This core is composed of dark gray to grayish olive (5Y 4/1 to 10Y 4/2) SILTY CLAY WITH SAND. Sand content varies from 5%-20% and consists of quartz, feldspar, rock fragments, and glass grains.
		My Mark	3	Void	3		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		S		Minor Lithologies: Several thin FINE FELDSPAR QUARTZ SAND layers occur in Section 2, 81-86 cm, 103-105 cm, 121- 124 cm, and 148-150 cm and in Section 7, 60 cm. Small pods of SAND also are found scattered throughout the core.  General Description: The sediment is slightly bioturbated.  Note: gas voids occur in Section 2, 20-
}			5		5	Quaternary	``````````````````````````````````````		9	5Y 4/2 To 10Y 4/2	25 cm, 130-150 cm, and Section 4, 35-45 cm.
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		8		7		A*		S		
0 1	5 10	0 10 2	10:		8 CC		}		s M	5Y 4/1	

			SIT	E 1017		LE	B COR	E :	9H		CORED 71.8 - 81.3 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	{						}		S	5Y 5/1	SILTY CLAY and SILTY CLAY WITH SAND
JM/		when we have the second of the			3 4 5 6	Quaternary	3 3		s	10Y 4/2	Major Lithologies: This core consists of gray (5Y 5/1) SILTY CLAY WITH SAND near the top and grayish olive (10Y 4/2) SILTY CLAY below. Color change is subtle and no boundary is recognizable.  General Description: The sediment is slightly bioturbated near the top of the core and homogeneous below.
0 1	5 10	0 10 2	10 20		СС			!	М		

GRAPE density (%) (650–700	suscept.	Meter	Graphic	밁딝			9	ו ט		
1 )		ž	Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		2 3 3 5 7 7		1 2 3 4 5 6 7 CC	Quaternary		M	s D s s	10Y 5/2	SILTY CLAY WITH NANNOFOSSILS and SILTY CLAY WITH SAND  Major Lithologies: This core consists of light grayish olive (10Y 5/2) SILTY CLAY WITH NANNOFOSSILS in the upper portion down through Section 6. Nannofossil content varies from 15%-35%. Sections 7 and CC contain grayish olive (10Y 4/1) SILTY CLAY WITH SAND.  Minor Lithology: Thin layers of fine FELDSPAR QUARTZ SAND occur in Section 3, 75 cm, 80 cm, 85-90 cm, 119 cm, 134 cm, Section 4, 30-33 cm, 43-45 cm, 134 cm, 143 cm, and Section 5, 25 cm.  General Description: The sediment is slightly bioturbated.  Note: Numerous gas voids have disturbed the sediments.

			SIT	E 1017		LE	B COR		11H		CORED 90.8 - 100.3 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
Mw/M		the state of the s	2		1 2		3 3 3			5Y 4/2	NANNOFOSSIL CLAY WITH SILT and SILTY CLAY WITH NANNOFOSSILS  Major Lithologies: This core consists of grayish olive to dark gray (10Y 4/1 to 5Y 4/1) SILTY CLAY WITH NANNOFOSSILS and grayish olive to olive (10Y 4/2 to 5Y 4/3) NANNOFOSSIL CLAY WITH SILT. Color changes are subtle and gradual.  Minor Lithologies:
	}		3		3		}	_		5Y 4/1	A thin graded bed of fine FELDSPAR QUARTZ SAND occurs in Section 6, 39-44 cm. Numerous small pods of SAND are found throughout the core.
My My My			5		4	Quaternary	3		S	10Y 4/2	General Description: The sediment is slightly bioturbated or homogeneous.
			7		5		} }		S	5Y 4/3	
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	9		6 7 CC		3		М	5Y 4/2 10Y 4/1	

			SIT	E 1017	НО	LE	B COR				CORED 100.3 - 109.8 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1			M	S	5Y 4/1	CLAYEY SILT, CLAY WITH SILT and SILTY DOLOMITE MIXED SEDIMENT Major Lithologies: Thic core consists of dark gray (5Y 4/1) CLAYEY SILT and CLAY WITH SILT, and grayish olive (10Y 4/1) to dark grayish brown (2.5Y 4/2) SILTY DOLOMITE MIXED SEDIMENT. Gradations are subtle and gradual. Foraminifers and diatoms are also present in small amounts.
			3				} <i>_</i>		S	2.5Y 5/2	Minor Lithology: The upper portion of the SILTY DOLOMITE MIXED SEDIMENT contains a moderately well cemented
}		}	4	2222 2222	3		Ø		D	2.5Y 4/2	interval of grayish brown (2.5Y 5/2) DOLOSTONE. General Description:
}		}	5			Quaternary	** ** ** **		I S	5Y 4/1 10Y 4/1	The sediments are mostly homogeneous and display only rare distinct burrows. The core is slightly to moderately disturbed.
1 No.		Any American	6 7		5	Qu	***		S	5Y 4/1	Note: Section 4, 150-153 cm, was expanded and boxed separately.
0 2	5 10 0	10 2	9 -		7 CC				М		

SIT	E 1017	HC	LE	B COR	E	13H		CORED 109.8 - 119.1 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC	Ш		⋛	s M		CLAY WITH SILT
			Quaternary ———					Major Lithology: This core consists entirely of dark gray (5Y 4/1) CLAY WITH SILT with a well- developed gas-expansion fissility. General Description: This core exploded on the catwalk and only the Core Catcher remained.

SIT	E 1017	HOLE	B COR	E	14X		CORED 119.1 - 119.3 mbsf				
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description				
							DOLOSTONE				
		Quaternary .			Major Lithology: This core consists of approximately 15 cm of grayish olive (10Y 4/1) DOLOSTONE.						
							General Description: Recovered 17 cm in core catcher.				
						An XRD sample was taken at the bottom of the core.					

			SIT	E 1017		LE	B COR	E	15X		CORED 119.3 - 127.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	(650-700 nm)		√ 1		3 4 5	Quaternary		0 MMM	Se	5Y 3/2 5Y 4/1 5Y 3/1	SILTY CLAY WITH FORAMINIFERS, NANNOFOSSIL SILTY CLAY MIXED SEDIMENT WITH DIATOMS AND FORAMINIFERS and CLAYEY SILT WITH DIATOMS Major Lithologies: This core consists of very dark gray to gray (5Y 3/1 to 5Y 5/1) SILTY CLAY WITH FORAMINIFERS, NANNOFOSSIL SILTY CLAY MIXED SEDIMENT WITH DIATOMS AND FORAMINIFERS, and CLAYEY SILT WITH DIATOMS. Color transitions are subtle and gradual. Minor Lithologies: Section one contains 60 cm of homogenized, dark olive gray (5Y 3/2) SANDY CLAY. Numerous individual laminations of QUARTZ FELDSPAR SAND occur in Sections 3 and 4, whereas small, sub-cm scale pods (burrows?) of QUARTZ FELDSPAR SAND are distributed throughout the core. General Description: The top of the core is severely disturbed by coring. Bioturbation is mostly indicated by the presence of
}		*	7_		6		3 3 3 3 3 3 3		S	5Y 5/1	small pods of sand, inferred to be filled burrows. Note: Section 1 has a potentially disturbed stratigraphy.
1 1.5	5 10 () 10 2	8 20	X X	cc		}	- - //////	М	5Y 4/2	

GRAPE density (%) (650–700 nm	suscept.	Meter	Graphic Lith.	Section	Age	6	Disturb	ple	or	
	}			Š	A	Structure	Dist	Sample	Color	Description
		7	T	1				s _D	5Y 4/1	CLAY WITH SILT AND FORAMINIFERS and SILT WITH CLAY AND FORAMINIFERS Major Lithologies: This core consists of olive gray (5Y 4/2) to dark olive gray (5Y 3/2) CLAY WITH SILT AND FORAMINIFERS to
		2		2		*****			5Y 3/2	SILT WITH CLAY AND FORAMINIFERS. The silt size fraction is principally composed of quartz and feldspar. Minor Lithologies:
		3 4 5		3	Quaternary	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			5Y 4/1	A single lamination of very dark greenish gray (5BG 3/1) PYRITIC GLAUCONITE SILT occurs at Section 1, 77 cm. Small pods of QUARTZ FELDSPAR SAND are distributed through the core. General Description: The core is generally homogeneous, but slight to moderate bioturbation is indicated by scattered coarse-grained pods.
		6		5 CC		***************************************	\\\\\	S M	5Y 3/2	

			SIT	E 1017			B COR				CORED 136.8 - 146.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	}	<u> </u>			1			WWW		5Y 4/1	SILT WITH CLAY AND FORAMINIFERS, SILTY CLAY WITH FORAMINIFERS and CLAY WITH SILT, FORAMINIFERS, AND NANNOFOSSILS
3	}	{	-	3	2						Major Lithologies: This core consists of minor
}			2				}			5Y	compositional variation among olive gray (5Y 4/2) to dark gray (5Y 4/1) SILT WITH CLAY AND FORAMINIFERS, SILTY CLAY WITH
		}	3_		3		}			4/2	FORAMINIFERS, and CLAY WITH SILT, FORAMINIFERS, AND NANNOFOSSILS. General Description:
}		}	4			Quaternary	>			5Y	This core shows no distinct bedding and little obvious bioturbation. The core was recovered in good condition except for Sections 1 and CC.
		}	5_		4	Que	,		S	4/1	
3	}	}	-	3			}				
}		}	6		5		}				
}		}	7				>		S	5Y 4/2	
	}	}	8_		6				S		
				7	СС			>	М	5Y 3/2]

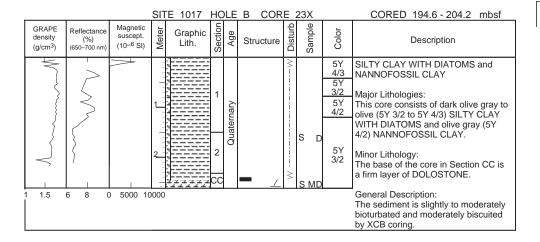
			SIT	E 1017	<u> HO</u>	LE	B COR				CORED 146.5 - 156.1 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
- V-~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			2		2		****	M	S	5Y 3/2	CLAY WITH SILT, FORAMINIFERS, AND DIATOMS, SILTY CLAY NANOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS and SILTY CLAY WITH FORAMINIFERS and SILTY CLAY WITH FORAMINIFERS Major Lithologies: This core consists of minor compositional variation among dark olive gray (5Y 3/2) to olive gray (5Y 4/2) CLAY WITH SILT, FORAMINIFERS, AND DIATOMS, SILTY CLAY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS, and SILTY CLAY WITH FORAMINIFERS. Transitions are gradational and not directly linked to color.
			4		4	Quaternary	}		S	5Y 4/1	General Description: This core is moderately disturbed and shows only rare distinct burrows. Note: Section 1 has uncertain stratigraphy.
 		}	-							5Y 4/2	onaugraphy).
}		}	-		5		>			7/2	
\ \{		}	6				} }			5Y 4/1	
<	}	}	7		6		} }	İ		5Y 4/2	
		}					3				
1 1.5	5 10	0 10 2	8		7 CC		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		S M	5Y 3/2	

			SIT	E 1017		LE	B COR		19X		CORED 156.1 - 165.8 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
}			1		1		*****		S	5Y 3/1	SILTY CLAY WITH FORAMINIFERS and CLAY WITH SILT AND FORAMINIFERS Major Lithologies: This core consists of very dark gray
}			2 - - - - - -		2		}		S	5Y 4/1	(5Y 3/1) to olive gray (5Y 4/2) SILTY CLAY WITH FORAMINIFERS to CLAY WITH SILT AND FORAMINIFERS. Nannofossils, micrite, and diatoms are present in small amounts.
		{	3				}				General Description: The sediment is mostly homogeneous with rare distinct burrows. A 1-cm diameter bleb of black (N2) BITUMEN
}	}		4		3		****			5Y 3/2	occurs at Section 1, 122 cm. The core was recovered with slight to moderate disturbance.
}	}	}	5		4	Quaternary	}			5Y 4/1	
}			6				}			5Y 4/2	
		<	7		5		****			5Y 3/2	
		}	8		6		******		S	5Y 4/1	
	}	}	9 -		7 CC		}		М	5Y 3/2	

											-
			\Box	E 1017	HC	LE	B COR		20X		CORED 165.8 - 175.4 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			2		2				S	5Y 3/2	CLAYEY SILT WITH FORAMINIFERS Major Lithology: This core consists of homogeneous dark olive gray to olive (5Y 3/2 to 5Y 4/2) CLAYEY SILT WITH FORAMINIFERS. The sediments also contain up to 10% nannofossils. Minor Lithologies: A small pod of QUARTZ FELDSPAR SAND is present in Section 6, 45 cm. General Description: The sediment is homogeneous except for thin intervals that are slightly bioturbated.
{	}	}		3	3			-	D		
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5		4	Quaternary	}		D S	5Y 4/2	
1.5 1.75	5 10	0 10 2	7		6 CC		}	MMM	M	5Y 3/2	

			SIT	E 1017		LE	B COR		21X		CORED 175.4 - 185.0 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	}	7			1					5Y 4/2	SILTY CLAY WITH SPONGE SPICULES and NANNOFOSSIL CLAY
			2-		2					5Y 4/3	Major Lithologies: This core consists of olive gray (5Y 4/2) SILTY CLAY WITH SPONGE SPICULES gradually alternating with olive to olive gray (5Y 5/3 to 5Y 5/2) NANNOFOSSIL CLAY. Foraminifers compose about 10% of the sediment in each lithology. General Description:
\ \{		}	3		Н		3				The sediment is slightly bioturbated. Coring disturbance has caused
}		}	-		2				s	5Y 4/2	moderate biscuiting of the sediment.
			5		4	Quaternary	3		I	5Y 5/3	
			6		5					5Y 4/2	
			8		6		33 33 33		S	5Y 5/2	
1 1.5	5 10	0 10 2	9 -		7 CC		} }		M	5Y 4/2	

			SIT	E 1017		LE	B COR		22X		CORED 185.0 - 194.6 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1		9 3 9			5Y 3/2	CLAY WITH SILT AND NANNOFOSSILS and SILTY CLAY Major Lithologies: This core consists of very dark gray to dark olive gray (5Y 3/1 to 5Y 3/2) SILTY CLAY and olive gray (5Y 4/2)
		\	2		2		3 3 3			5Y 4/2	CLAY WITH SILT AND NANNOFOSSILS. Sagarites are disseminated throughout Section 1. Color changes are gradational. Minor Lithology: A thin layer of QUARTZ SAND WITH
			3	<u> 1</u> — — — — — — — — — — — — — — — — — —	3		}	i		5Y 3/1	FORAMINIFERS occurs in Section 4, 30 cm. General Description: The sediment is slightly bioturbated.
}	3	{	4	<u></u>		ıry	3		S	5Y 4/2	
			5		5	Quaternary	**************************************			5Y 3/2	
}	}	}	8_		6		3		S	5Y 3/1	
}		\	9		7 CC		}		M	5Y 3/2	
1 1.5	5 7.5 (0 10 2	0		_	_		_			-



			SIT	E 1017		LE	C CO	RE	1			CORED 0.0 - 7.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	e i	DISTURD	Sample	Color	Description
	5 10		3. 3 3 3 3 3 3 3 3		1 2 3 4 5 CC	Quaternary				S S	5Y 4/3 10Y 4/2	SILTY CLAY Major Lithology: This core consists of SILTY CLAY. Sediment color gradually varies from very dark grayish brown (2.5Y 3/2) near the top to olive to grayish olive (5Y 4/3 to 10Y 4/2) below. Minor Lithologies: Several layers of dark gray (N3) SAND occur throughout the core. General Description: The sediment is slightly bioturbated.

			SIT	E 1017	HC	LE	C COR	Е	2H		CORED 7.3 - 16.8 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	My Many		3		3	Quaternary	} } &	00	S	5Y 4/3	SILTY CLAY Major Lithology: This core consists of olive to dark olive gray (5Y 4/3 to 5Y 3/2) SILTY CLAY. Color changes are subtle and gradational. Dispersed throughout the sediment near the base of the core are numerous foraminifer fragments. Minor Lithologies: Small pods of SAND occur in Sections 1 through 5. General Description: The sediment is slightly bioturbated.
) 10 2	6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		5 6		*****		М	5Y 4/2 To 5Y 3/2	

			SIT	E 1017		LE	C COR				CORED 16.8 - 26.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	7'	}	-	/======	П			1			SILTY CLAY WITH SAND
			1		1			ļ		5Y 4/2	Major Lithology: This core consists of olive gray (5Y 5/3 to 5Y 4/2) SILTY CLAY WITH SAND. Color changes are subtle and boundaries are gradational.
	[5	2 -				}				Minor Lithologies: Thin graded beds of fine SAND occur
	}	}			2		}				in Section 2, 125-128 cm, and Section 4, 50-53 cm.
}	}	}	3				<u>***</u>			5Y 4/3	General Description: The sediment is slightly bioturbated.
}		}			3		3			4/3	Note: Expanded material from Sections 5 and 6 are boxed separately.
\ \{	}	Ş	4		3				S		
{	{	{	_					ļ			
}	 	}	5			Quaternary	•••			5Y	
}	$\left \cdot \right $	{	-		4	Qua				4/2	
		{	6				}				
			7		5		>				
	}	\}	8		6		\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \			5Y 5/3	
		}	9				3				
	}	**************************************	10		7			 			
1 1.5	5 10 () 10 2	20 20	4	UU				M		

			SIT	E 1017	HC	LΕ	C COR	Ε	4H		CORED 26.3 - 35.8 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure		Sample	Color	Description
\\	***	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1		1		3	00		10Y 4/1	SILTY CLAY Major Lithology: This core is composed of grayish olive (10Y 4/1) to dark olive gray (5Y 3/2) SILTY CLAY which shows a few meter scale faint color cycles.
		}	2		2		} }}			5Y 4/2	General Description: The core is slightly to moderately bioturbated.
}		}	3				}			., =	Note: Expanded material from Section 6 is boxed separately.
		}	4		3		}				
		}	in him			ary	}			10Y 4/1	
		}	5		4	Quaternary	} }		S		
}		{	6				3				
}		{	7		5		}		s	5Y 3/2	
			, i 0		6		33 33 34 35 36 37 37 38 38 39 39 30 31 32 32 33 34 36 36 37 37 38 38 39 39 30<			5Y 4/2	
1 1.5	5 10	0 10 2	10		7 CC				M	5Y 3/2	

			SIT	E 1017	НС	LE	C COR	Е	5H		CORED 35.8 - 45.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
~	(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-				3	≷		5Y 4/2	SILTY CLAY WITH SAND and CLAY WITH SILT
	}	*	1		1		» » »		s	10Y 5/2	Major Lithologies: This core consists of light grayish olive (10Y 5/2) CLAY WITH SILT and olive gray (5Y 4/2) SILTY CLAY WITH SAND. The silt and sand fraction is composed mainly of quartz, feldspar, rock fragments, and mica.
}		}	3		2		33		3		Minor Lithologies: Section 3, 78 cm, contains a thin graded layer of SAND.
			4		3		}} •••			5Y 4/2 10Y 5/2	General Description: The sediment is moderately bioturbated.
}		}	1			ary	}		S	5Y 4/2	
		}	5		4	Quaternary	}}				
}			6		5		}}				
}			7		0		}}			10Y 5/2	
}	$\left \begin{array}{c} \\ \\ \end{array} \right $		8		6		}} }}			3/2	
		}	9		7		}}				
1 1.5	5 10	\(\frac{1}{2}\)	10		, CC		33	*	М		

		SIT	E 1017	HO	LE	C COR		6H		CORED 45.3 - 54.8 mbsf
GRAPE density (%) (650–700 nm	suscept.	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		2 3 4 4 5 6 8 9		3 3 4 4 5 5 6 6 7 7 CCC	Quaternary	**** 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	<u>-</u>	s	5Y 4/2 5Y 3/2 5Y 4/2 5Y 3/2	Major Lithology: This core consists of olive gray to dark olive gray (5Y 4/2 to 5Y 3/2) SILTY CLAY. Color changes are subtle and boundaries are gradational. Minor Lithology: Thin graded beds of FELDSPAR QUARTZ SAND occur in Section 1, 30 cm, Section 5, 74 cm, and 140 cm. Small pods of SAND also fill burrows near graded intervals. General Description: The sediment is slightly to moderately bioturbated. Note: Gas expansion voids occur in Section 1, 138-150 cm, Section 2, 60-70 cm, and Section 3, 82-97 cm.

			SIT	E 1017		LE	C COR	E			CORED 54.8 - 64.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	╻	Sample	Color	Description
		~~~~	7		1 2			00		5Y 3/2	CLAYEY SILT WITH FORAMINIFERS and SILTY CLAY WITH SAND  Major Lithologies: This core consists primarily of dark gray (5Y 4/1) CLAYEY SILT WITH FORAMINIFERS and dark olive gray (5Y 3/2) to very dark gray (5Y 3/1) SILTY CLAY WITH SAND. Diatoms, sponge spicules, and organic debris are present in small amounts. Glauconite, pyrite, and other opaque grains are present in trace amounts.
		}	3					MMMMMMM	S	5Y 4/1	Minor Lithology: Thin, occasionally graded, layers of very fine QUARTZ FELDSPAR SILTY SAND are scattered through the lower
			5		4	Quaternary		λ.Μ.Μ		5Y 4/2	half of the core.  General Description: The sediments are homogenized with only rare distinct burrows.  Note: The liner shattered along the entire core, probably disturbing sediments more than evident. Shards of plastic removed from Section 3.
			7		5				S S	5Y 4/1	
0 2	5 10 (	) 10 2	9		7 CC		— } ••• •••		M	5Y 3/1	

GRAPE			<u> </u>	E 1017	110		C COR		ВП		CORED 64.3 - 73.8 mbsf
density (g/cm ³ )	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	\ \ \ \		1	Void	1			wwwwwwwwwwww		5Y 3/2	CLAYEY SILT  Major Lithology: This core consists of dark olive gray (5Y 3/2) to olive gray (5Y 4/2) CLAYEY SILT. The CLAYEY SILT includes
W. A. W.		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2	Void	2		} }	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		5Y 4/2	persistent small quantities of foraminifers, diatoms, sponge spicules, and siliciclastic sand.
**			3	Void			»»»»» »» »	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S	5Y 4/2	Minor Lithology: Two laminations of SILT occur in Sections 4 and 5. General Description:
			4     5		3	Quaternary	» » » » » » » » » » » » » » » » » » »			5Y 3/2	This core is mostly homogeneous. Bioturbation is mostly indicated by subcm scale pods of lighter colored, well-sorted SILT. Coring disturbance is moderate to heavy.  Note: expanded material from Section 6 boxed separately.
	, }	)	-			Ø				5Y 4/2	
		\ \ \	6	7	5		— — }}		s	5Y 3/2	
		}	-							5Y 4/2	
	[	}	8 -							5Y 4/1	
	0 5	0 10 2	9		6 7 CC		3 3 3 3 3 3 3 4 4 6 7 8 7 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		М	5Y 3/2	

			SIT	E 1017		LE	C COR				CORED 73.8 - 78.3 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	5 10		1		1 2 3 4 5 CC	Quaternary	~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~	M M	s s	5Y 4/1	NANNOFOSSIL OOZE WITH SILT AND FORAMINIFERS and CLAYEY SILT WITH FORAMINIFERS  Major Lithologies: This core consists of olive gray (5Y 4/2) to dark gray (5Y 4/1) CLAYEY SILT WITH FORAMINIFERS and NANNOFOSSIL OOZE WITH SILT AND FORAMINIFERS. The calcareous lithology occurs without any detectable associated change in color.  Minor Lithologies: Sharply bounded, 1-cm thick lamination of gray SILT occurs near the base of Section 5.  General Description: The core is mostly homogeneous without distinct burrows.  Note: Shipboard physical property measurements indicate that ca. 2.5 meters at the base of the core was recovered beyond the recorded subbottom depth interval.

NANNOFOSSIL SILT MIXED SEDIMENT WITH CLAY  Major Lithology: This core consists primarily of dark gray (5Y 4/1) NANNOFOSSIL SILT MIXED SEDIMENT WITH CLAY. Foraminifers and diatoms make up important accessory components.  Minor Lithologies: A 40-cm thick bed of grayish olive (10Y 4/1) SILTY NANNOFOSSIL OOZE WITH FORAMINIFERS is present in Section 4. Numerous thin laminations to thin beds of light gray (N6), very fine grained FELDSPAR QUARTZ SAND occur in this core, especially in Sections 4 and 5.  General Description: The sediments are moderately disturbed and relatively homogeneous. Distinct bioturbation is minimal.  S 10Y 4/1  Note: Shipboard physical property measurements indicate that ca. 2.5 measurements				SIT	E 1017		LE	C COR				CORED 78.3 - 87.9 mbsf
SEDIMENT WITH CLAY  Major Lithology: This core consists primarily of dark gray (5Y 4/1) NANNOFOSSIL SILT MIXED SEDIMENT WITH CLAY. Foraminifers and diatoms make up important accessory components.  Minor Lithologies: A 40-cm thick bed of grayish olive (10Y 4/1) SILTY NANNOFOSSIL OOZE WITH FORAMINIFERS is present in Section 4. Numerous thin laminations to thin beds of light gray (N6), very fine grained FELDSPAR QUARTZ SAND occur in this core, especially in Sections 4 and 5.  General Description: The sediments are moderately disturbed and relatively homogeneous. Distinct bioturbation is minimal.  S 10Y 4/14  Note: Shipboard physical property measurements indicate that ca. 2.5 meters at the base of the previous core may represent material recovered from sediment in this interval (see Site Summary).	density	(%)	suscept.	Meter		Section	Age	Structure	Disturb	Sample	Color	Description
	5 1.75	5 10	5 10 1	3 1 4 1 6 7 5		1 2 3	Quaternary			SS	10Y 4/1	SEDIMENT WITH CLAY  Major Lithology: This core consists primarily of dark gray (5Y 4/1) NANNOFOSSIL SILT MIXED SEDIMENT WITH CLAY. Foraminifers and diatoms make up important accessory components.  Minor Lithologies: A 40-cm thick bed of grayish olive (10Y 4/1) SILTY NANNOFOSSIL OOZE WITH FORAMINIFERS is present in Section 4. Numerous thin laminations to thin beds of light gray (N6), very fine grained FELDSPAR QUARTZ SAND occur in this core, especially in Sections 4 and 5.  General Description: The sediments are moderately disturbed and relatively homogeneous. Distinct bioturbation is minimal.  Note: Shipboard physical property measurements indicate that ca. 2.5 meters at the base of the previous core may represent material recovered from sediment in this interval (see Site

			SIT	E 1017		LE	C COR	Ε			CORED 87.9 - 97.5 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
<i></i>		*	2		1 2		Æ	M	8	5Y 4/1	SILT WITH CLAY, FORAMINIFERS, AND NANNOFOSSILS and CLAYEY SILT WITH FORAMINIFERS AND NANNOFOSSILS  Major Lithologies: The core consists of very minor variation between olive gray (5Y 4/2) and dark gray (5Y 4/1) CLAYEY SILT WITH FORAMINIFERS AND NANNOFOSSILS and SILT WITH CLAY, FORAMINIFERS, AND NANNOFOSSILS. Diatoms, sponge spicules, and organic matter are present in small amounts.
			4		3	Quaternary	, , , , , , , , , , , , , , , , , , ,		S	5Y 4/2	Minor Lithology: A lamination and thin bed of planar laminated, light gray (N6), very fine to fine grained FELDSPAR QUARTZ SAND are present in Section 6.  General Description: The sediments are generally homogeneous with rare visible burrows. The core is moderately disturbed by coring.
			7		5 6 7		*		Ø	5Y 4/1	
1 1.5	5 10 0	10 2	20		СС			>	М	5Y 3/2	

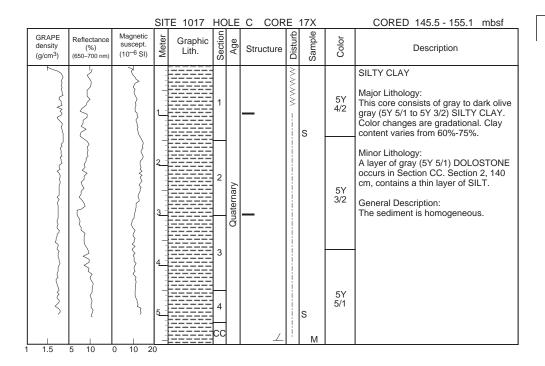
			SIT	E 1017		)LE	C COR				CORED 97.5 - 107.1 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
}			1	7	1				S	5Y 4/1 To 5Y 4/2	SILTY CLAY WITH FORAMINIFERS and SILTY DOLOMITE MIXED SEDIMENT Major Lithologies: This core consists of dark olive gray
			3		2	Quaternary	<b>—</b>	/		5Y 4/1	(5Y 3/2) to dark gray (5Y 4/1) SILTY CLAY WITH FORAMINIFERS and olive gray (5Y 4/2) SILTY DOLOMITE MIXED SEDIMENT. The silt fraction is principally composed of quartz, feldspar, and mica. Sponge spicules and diatoms also contribute small amounts to the sediment.  Minor Lithologies: A horizon of moderately well indurated, olive (5Y 5/3) SILTY DOLOSTONE occurs in Section 4. A 8-cm thick bed of very fine, dark gray (5Y 4/1) SAND occurs in Section 2.
			5		4	Ø	» »	_ www	s ^D	5Y 4/2 5Y 5/3	General Description: The sediments are mostly homogenized, but show distinct burrows (possibly Chondrites) in Sections 4 and 5.
}		}	6				,,			5Y 4/2	
	5 10	0 10 2	7		5 6 CC		** **		S M	5Y 3/2	

			SIT	E 1017		LE	C COR				CORED 107.1 - 116.8 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		\ \ \			1		Ø	- WWW		5Y 3/2 5Y 4/1	CLAYEY SILT WITH FORAMINIFERS and SILTY MICRITIC CLAY MIXED SEDIMENT
		}	1							5Y 4/2	Major Lithologies: This core consists primarily of dark olive gray (5Y 3/2) to dark gray (5Y
			3		2					5Y 3/2	4/1) CLAYEY SILT WITH FORAMINIFERS and olive gray (5Y 4/2) SILTY MICRITIC CLAY MIXED SEDIMENT. Quartz, feldspar, and mica form most of the silt size fraction. Diatoms, sponge spicules, and organic matter are consistently present in small amounts.
		}		-	3	Ŋ	Ø		S		Minor Lithologies: One thin bed and several laminations of gray (N5) SAND are present at the
		{	4		_	Quaternary			S	5Y 4/1 To 5Y 4/2	bottom of Section 5 and the top of Section 6. The interval at Section 4, 60-70 cm, is moderately cemented with carbonate forming pale olive (5Y 6/3) SILTY MICRITIC CHALK.
		}	J -		4			ļ		5Y 6/3	General Description: This core is homogeneous and
			8		5		& 			5Y 4/2	displays no distinct burrows.
0 2.5	<u>                                     </u>	0 10 20		404	CC				M		<u> </u>

	agnetic =				1			
density (%) sus	Scept. D=6 SI)	Graphic Lith.	Section	Structure		Sample	Color	Description
	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		1 2 Accusterio			s M	10Y 4/1 5Y 4/2	CLAYEY SILT WITH FORAMINIFERS Major Lithology: This core consists of olive gray (5Y 4/2) to grayish olive (10Y 4/1) CLAYEY SILT WITH FORAMINIFERS. Diatoms, sponge spicules, and organic debris make up small quantities of the sediment.  Minor Lithology: A 0.5 cm diameter pod of very fine grained SAND occurs in the Core Catcher.  General Description: This core is nearly completely homogeneous, displaying no primary sedimentary structures. There are no distinct burrows.  There is an unknown void from 109- 150 cm in Section 2.

			SIT	E 1017		LE	C COR				CORED 126.4 - 135.9 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
{	>	}	1111111		1		<b>-</b> »	///		5Y 4/1	CLAYEY SILT WITH FORAMINIFERS and SILTY CLAY WITH FORAMINIFERS
			3	7	2		* &		S	10Y 5/1	Major Lithologies: This core consists of light grayish olive (10Y 5/1) to dark olive gray (5Y 3/2) CLAYEY SILT WITH FORAMINIFERS and SILTY CLAY WITH FORAMINIFERS. Diatoms and nannofossils compose <10% each.  Minor Lithology: Very fine SILTY SAND occurs as thin beds, laminations, and isolated pods
}		}					}} }}				throughout the core.  General Description:
		}	4		3					5Y 3/2	The core is primarily massive and only locally displays distinct burrows.
			5		4	Quaternary	, <b>–</b>		S	5Y 4/2	
		}	7	<u> </u>	5		<b>—</b> }	i		5Y 4/1 5Y	
	$ \xi $	{					_ `			4/2	
		~	8		6				S	5Y 3/2	
0 1	6 8	0 10 2	9 -		7 CC			·	M	5Y 4/2	

		SH	E 1017	HC	ᄔ	C COR	E			CORED 135.9 - 145.5 mbs
GRAPE density (%) (650–700 n	suscept.	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	}			1		} } }		s	5Y 4/1	CLAYEY SILT WITH FORAMINIFERS and CLAY WITH SILT AND FORAMINIFERS
						}			5Y 4/2	Major Lithologies: This core consists of olive gray (5Y 4/2) to dark gray (5Y 4/1) CLAYEY SILT WITH FORAMINIFERS and light
		2		2		}				grayish olive (10Y 5/1) CLAY WITH SILT AND FORAMINIFERS. Nannofossils and diatoms also
		3		3	Quaternary			S	5Y 4/1	contribute up to 8%.  Minor Lithology: Two laminations of very fine SILTY SAND are present in Sections 2 and 3. A dropstone clast of dolomite is present at Section 6, 23-33 cm. It is apparently from the Monterey Formation and has been bored in the nearshore environment by Pholadidae clams.  General Description: The core is almost completely homogeneous with only rare distinct burrows.
		7		5					5Y 4/2	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			6		<b>♦</b>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S	5Y 5/1	
		8		cc		Ø	~~~~~~	M	5Y 4/2	



			SIT	E 1017	HC	LE	C COR		18X		CORED 155.1 - 164.7 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	n	Age	Structure	Disturb	Sample	Color	Description
}	>		-					W W		5Y	SILTY CLAY and CLAY WITH SILT
			1		1		***************************************	\		5Y 3/2	Major Lithologies: This core consists of dark olive gray to olive (5Y 3/2 to 5Y 5/3) SILTY CLAY and CLAY WITH SILT. Color changes are gradational. Intervals with lighter color values (5Y 5/2) have about 5% nannofossils.
	}	}	-		2		» » » » » »			5Y 4/2 To 5Y	Minor Lithologies: A thin fine SAND layer occurs in Section 6, 47 cm.
	}	}	3 -				}} }} }}			5/2	General Description: The sediment is moderately bioturbated.
			5		3	Quaternary	~~~~~~~~~			5Y 4/3	Note: Section 1, 0-50 cm, has uncertain stratigraphy.
		}	8		6		**************************************			10Y 4/2	
0 1	5 10	0 20 4	9 10		7 CC		<b>-</b>		M	5Y 3/2	

			SI	E 1017		LE	C COR		19X		CORED 164.7 - 174.3 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		~~~~			1					5Y 3/2	SILTY CLAY and NANNOFOSSIL CLAY WITH FORAMINIFERS Major Lithologies: This core consists of dark olive gray (5Y 3/2) SILTY CLAY and olive gray
}			2		2		}			5Y 4/2	(5Y 5/2 to 5Y 4/2) NANNOFOSSIL CLAY WITH FORAMINIFERS. Color changes are subtle and boundaries are gradational. General Description: The sediments are slightly
}	{	{	3								bioturbated.
}		}	4		3	ary	} }		S	5Y 3/2	
}			5		4	Quaternary	}		S	5Y 5/2	
			7		5		}			5Y 4/2	
		}	8		6		}} }}			5Y 3/2	
}		}	9		7		}			5Y 4/2	
					СС		}	!	М	5Y 3/2	

GRAPE density (g/cm³) (e50-700 nm) (10-6 SI) W Graphic suscept. (10-6 SI) W Graphic (10-6 SI) W Graphic suscept. (10-6 SI) W Graphic				SIT	E 1017	<u>HC</u>	LE	D COR	E	1H		CORED 0.0 - 4.1 mbsf
Major Lithology: This core consists of dark olive gray to grayish olive (5Y 3/2 to 10Y 4/2) SILTY CLAY. Minor Lithologies: A thin pod of reddish gray fine SAND occurs in Section 2,147-150 cm. In Section 3, 66 cm, and Section CC, 0-3 cm, occur thin layers of SAND. General Description: The sediments are homogeneous or slightly bioturbated.	density	(%)	suscept.	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
grayish olive (5Y 3/2 to 10Y 4/2) SILTY CLAY. Minor Lithologies: A thin pod of reddish gray fine SAND occurs in Section 2,147-150 cm. In Section 3, 66 cm, and Section CC, 0-3 cm, occur thin layers of SAND. General Description: The sediments are homogeneous or slightly bioturbated.						1						Major Lithology:
	1 1.5	8 10	0 20 4	3		2 3	Quaternary	,		M		grayish olive (5Y 3/2 to 10Y 4/2) SILTY CLAY. Minor Lithologies: A thin pod of reddish gray fine SAND occurs in Section 2,147-150 cm. In Section 3, 66 cm, and Section CC, 0-3 cm, occur thin layers of SAND. General Description: The sediments are homogeneous or

			SIT	E 1017	НО	LE	D COR	E 2	2H		CORED 4.1 - 13.6 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	5 10		2 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3		1 2 3 4 5 6 CC	Quaternary	nn	MM	M	10Y 4/2	SILTY CLAY Major Lithology: This core consists of grayish olive (10Y 4/2) SILTY CLAY. Minor Lithologies: Numerous thin layers and pods of gray (N3) SAND occur throughout Sections 1-3. General Description: The sediment is homogeneous.

			SIT	E 1017	HO	LE	D COR	E 3			CORED 13.6 - 23.1 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650-700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			2 3		2		}			10Y 4/2	SILTY CLAY Major Lithology: This core consists of grayish olive(10Y 4/2) to dark olive gray (5Y 3/2) SILTY CLAY. Color changes are subtle and boundaries are gradational. Minor Lithology: Numerous thin gray (N3) SAND layers occur throughout the core. General Description: The sediment is homogeneous or slightly bioturbated.
		}	5		4	Quaternary	•••• }			5Y 3/2	
			6 - - - 7 - - - - - - - - - - - - - -		5		3			10Y 4/2	
0 1	6 8	0 20 4	9 - - - - - -		7 CC		3		M	5Y 3/2	

			SIT	E 1017		LE	D COR	E 4	4H		CORED 23.1 - 32.6 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	5 10		3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		1 2 2 3 3 4 4 5 5 6 6 7 7 CCC	Quaternary	<pre>3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</pre>		М	5Y 4/2 5Y 5/3 To 5/3 4/2	SILTY CLAY Major Lithology: This core consists of grayish olive to olive (10Y 5/2 to 5Y 5/3) SILTY CLAY. Color changes are subtle and boundaries are gradational. General Description: The sediment is slightly bioturbated. Note: A gas expansion void occurs in Section 7, 70-80 cm.

			SIT	E 1017	HC	LE	D COR		5H		CORED 32.6 - 42.1 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			2		1 2		» » » » » » » » » » » » » » » » » » »			10Y 4/2 5Y 4/2 10Y 4/2	CLAYEY SILT AND SANDY SILT WITH CLAY Major Lithology: This core consist of olive gray (5Y 4/2) CLAYEY SILT and grayish olive (10Y 4/2) SANDY SILT WITH CLAY. Color changes are subtle through the entire core. General Description: The sediments are moderaly bioturbated. Note: gas voids occur in Section 2 (140-150 cm) and Section 5 (140-150
}		}	4		3		} } }			5Y 4/2	cm)
			5 - - - - - 6 - - - 7 -		4	Quaternary	************			10Y 4/2	
			8		6					5Y 4/2 10Y 4/2 5Y 4/2	
1	5 10	0 10 2	9 -		7 CC		** ** ** ** **	-	M	10Y 4/2	

			SIT	E 1017	НО	LE	D COR				CORED 42.1 - 51.6 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
- M.			3 3 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		3 3 6	Quaternary		WW		10Y 4/2	SILTY CLAY Major Lithology: This core consists of grayish olive to dark olive gray (10Y 4/2 to 5Y 3/2) SILTY CLAY. Color changes are gradational. Minor Lithology: Small pods of SAND occur in burrows in Section 3, 80 cm, and Section 7, 20 cm. General Description: The sediment is slightly to moderately bioturbated. Note: Stratigraphy of Section 1 is uncertain.
0 1	5 10	0 10 2	9 -		7 8 CC		***		M	5Y 3/2 To 10Y 4/1	

			SIT	E 1017	HO	LE	D COR	E :	7H		CORED 51.6 - 61.1 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age		Disturb	Sample	Color	Description
Jun Marine			1		1		3			5Y 4/2	SILTY CLAY WITH SAND Major Lithology: This core consists of dark olive gray to olive gray (5Y 3/2 to 5Y 4/2) SILTY CLAY WITH SAND. Color changes are subtle and gradual. Minor Lithologies:
1 3		{	2				6				Several thin layers of graded fine SAND occur in this core.
- WW		}	3		2		}} }}			5Y 3/2	General Description: The sediment is slightly to moderately bioturbated.
			4		3	ıary	} ••• }			5Y 4/2	oldribated.
			5		4	Quaternary	}				
}		\{\{\}	J		5		} } } }			5Y 3/2	
0 1	0 10	0 10 2	8		6 7 CC		333333333333333333333333333333333333333		M	5Y 4/2 To 10Y 4/2	

SILTY CLAY WITH SAND Major Lithology: This core consists of olive to olive gray (5Y 5/3 to 5Y 4/2) SILTY CLAY WITH SAND. Color variation is subtle. Minor Lithology: Several thin layers of dark gray (N4 to N5) fine SAND occur throughout Sections 2 and 3. General Description: The sediment is moderately bioturbated. Note: Section 1 was disturbed during coring and has an uncertain strattgraphy. 5 7 7 8 3 7 7 9 4/2 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				SIT	E 1017	НО	LE	D COR	E	зн		CORED 61.1 - 70.6 mbsf
Major Lithology: This core consists of olive to olive gray (SY 5/3 to 59 4/2) SILTY CLAY WITH SAND. Color variation is subtle. Note: Section 1 was disturbed during coring and has an uncertain strattgraphy. To 5y 4/2 Silty CLAY WITH SAND. Color variation is subtle. Minor Lithologies: Several thin layers of dark gray (N4 to N5) fine SAND occur throughout Sections 2 and 3. General Construction: The sediment is moderately bioturbated. Note: Section 1 was disturbed during coring and has an uncertain strattgraphy.	density	(%)	suscept.	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
Major Lithology: This core consists of olive to olive gray (SY 9/3 to SY 4/2) SILTY CLAY WITH SAND. Color variation is subtle. Minor Lithologies: Several thin layers of dark gray (N4 to N5) fine SAND occur throughout Sections 2 and 3. General Description: The sediment is moderately bioturbated. Note: Section 1 was disturbed during coring and has an uncertain stratigraphy.		'	>	Т	(1	Т		≷			SILTY CLAY WITH SAND
Note: Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has an uncertain stratigraphy. Section 1 was disturbed during coring and has a wa				1 -				33 33 			5Y 5/3	This core consists of olive to olive gray (5Y 5/3 to 5Y 4/2) SILTY CLAY WITH SAND. Color variation is subtle. Minor Lithologies: Several thin layers of dark gray (N4 to N5) fine SAND occur throughout Sections 2 and 3. General Description: The sediment is moderately
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	{		5			П						Note: Section 1 was disturbed during
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			8            		5 6 7	Quaternary	<pre>3 3 3 3 3 3 3 3 3 3</pre>			5/3 To 5Y	coring and has an uncertain
<u> </u>	0 1	لسيسا	1	ئـــا	/ <del></del>	CC				М		

			SIT	E 1017	<u> HO</u>	LE	D COR	E 9	9H		CORED 70.6 - 80.1 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	미	Sample	Color	Description
MM			2	Void	2		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 4 6 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 9 8 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 8 8 8 9 8 8 8 9 8 8 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 8 8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	M		5Y 3/2 To 5Y 4/2	NANNOFOSSIL SILT MIXED SEDIMENT WITH CLAY  Major Lithology: This core consists of dark olive gray (5Y 3/2) to olive gray (5Y 4/2) NANNOFOSSIL SILT MIXED SEDIMENT WITH CLAY.  General Description: The sediment is slightly to moderately bioturbated.  Note: Section 1 was disturbed during coring and has an uncertain stratigraphy.
{	/	{	-	VOIG	П						
	6 8	0 10 2	5 6 7 8 9 9		5 6 7	Quaternary	<pre>3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</pre>		М	5Y 3/2 To 5Y 4/2	

SI	ΓE 1017	HC	DLE	D COR	RΕ	10X		CORED 80.1 - 88.7 mbsf	
Meter	Graphic Lith.	Section		Structure	Disturb	Sample	Color	Description	
		CC	$\Box$		$\Box$			NANNOFOSSIL SILT MIXED	
								SEDIMENT WITH CLAY	
			Quaternary ——			Major Lithology: This core consists of dark gray (5Y 4/1) NANNOFOSSIL SILT MIXED SEDIMENT WITH CLAY.			
ď								General Description: Only CC recovered.	
only or received.									

## 1017D-11X Entire core given to paleonologist.

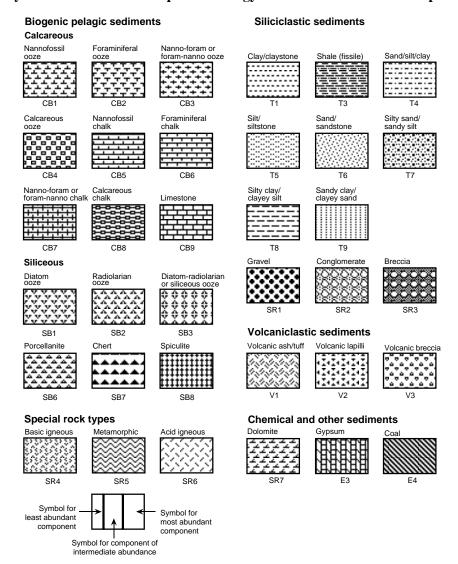
SIT	E 1017	HC	LE	D COR	CORED 98.3 - 107.9 mbsf				
Meter	Graphic Lith.	Section	Age	Structure Sample		Color	Description		
Г							SANDY CLAYEY SILT  Major Lithology: Thic core consists of very dark gray (5Y 3/1) SANDY CLAYEY SILT.		
	C C								
Quater							General Description: Recovered 9 cm in CC.		

SIT	E 1017	HC	LE	E COR	E	1H		CORED 0.0 - 5.9 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		33 33	0000		5Y 4/2	SILTY CLAY WITH FORAMINIFERS Major Lithology: This core consists of olive gray to very dark gray (5Y 4/2 to 5Y 3/1) SILTY CLAY WITH FORAMINIFERS.
2		2	Quaternary				5Y 4/3	Minor Lithology: Numerous thin beds and laminations of graded, very dark gray (5Y 3/1) QUARTZ FELDSPAR SAND occur in Sections 3 and 4.  General Description: The sediment is moderately
4		3	Quat	<u>}</u>			5Y 4/3 To 5Y 3/1	bioturbated, and soupy near the top of Section 1.
5		4 CC		   - &		М	5Y 4/2	

SITE 1017 HOLE E CORE 2H COR	ED 5.9 - 15.4 mbsf
	escription
SILTY CLAY  Major Lithology This core consi 4/2) SILTY CLA  Minor Lithology Thin beds and grained black ( FORAMINIFER throughout the have sharp bas  General Descri	sts of olive gray (5Y AY.  :: !aminations of coarse-5Y 2.5/2) t SAND occur core. These generally ses and are graded.

SIT	SITE 1017 HOLE E CORE 3H CORED 15.4 - 24.9 mb										
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description			
1		1		*			5Y 4/2 To 5Y 3/2	SILTY CLAY and SILTY CLAY WITH NANNOFOSSILS  Major Lithology: This core consists of interbedded dark olive (5Y 4/2 to 5Y 3/2) SILTY CLAY and SILTY CLAY WITH NANNOFOSSILS. Boundaries are gradational.  Minor Lithology: THin beds and laminations of black (5Y 2.5/2) FELDSPAR QUARTZ SAND occur in Sections 2 and 3.			
4_		3	Quaternary	 			5Y 4/2	General Description: The sediment is bioturbated. The core appears mottled with light and dark colored areas. Sponges occur in Section 1, 90 cm, and Sections 6 and 7. Small shell fragments occur throughout Sections 2 and 7. Wide			
5_		4		\$ \$	ļ !			cracks occur in Section 2 at 88, 110, and 120 cm, horizontal cracks occur in Section 2 at 30-60, 80-90, and 105-150 cm, and some horizontal cracking occurs along the outer margin of the			
6							5Y 3/2	core in Section 6. Expanded material from Sections 1 to 6 is boxed separately.			
7		5					5Y 3/1				
8		6		}} }}	!						
9		7 CC				М	5Y 3/2				

## Key to symbols used in the "Graphic Lithology" column on the core description sheets.



## Key to symbols used in the "Structures" column on the core description sheets.

	rilling disturbance rmbols	Sec	dimentary structures cont	•	
	Soft sediments				
	Slightly disturbed	∱F	Fining-upward sequence	<b>♦</b>	Isolated pebbles/cobbles
ļ	Madaratah, diaturkad	<b>↑</b>	Interval over which primary sedimentary structure occur	•	Isolated mud clasts
<u> </u>	Moderately disturbed		Planar laminae		Slump blocks or slump folds
<b>&gt;</b>	Highly disturbed	$\leq$	Wedge-planar laminae/beds	2	Contorted slump
0			Graded bedding (normal)	X	Probable compaction
00	Soupy	•••	Graded bedding (reversed)	<b> </b>	fracture
	Hard sediments		Sharp contact	<b> </b>	Microfault (normal)
2	Slightly fractured		Gradational contact	1/2	Microfault (thrust)
	3 7	w	Scoured, sharp contact	_	,
土	Moderately fractured	•••	Scoured contact with graded bed	<del>-</del>	Macrofault
$\geq$	Highly fragmented		Thick color bands (sharp contact)	<b>                   </b>	Fracture
$\times$	Drilling breccia	****	Thick color bands (gradational contact)	×	Totally fractured
$\stackrel{\sim}{\times}$	Drilling breccia		Medium color bands (sharp contact)	X	Vein structures
Sec	limentary structures	3000000 3000000	Medium color bands (gradational contact)	₹3	Color mottles
3	Burrows, rare (<30% surface area)	$\equiv$	Thin color bands (sharp contact)	<u>-</u>	Dolomite nodule/concretion
33	Burrows, common (30%–60% surface area)	******	Thin color bands (gradational contact)	D	Disseminated dolomite
333	Burrows, abundant (>60% surface area)		Laminations (mm scale)	P	Pyrite nodule/concretion
>>>	Discrete Zoophycos trace fossil		Individual thick color band	Р	Disseminated pyrite
6	Discrete Chondrites trace fossil		Individual medium color band Individual thin color band	G	Glauconite
9	Sagarites sponge		Individual lamination		Concretions/nodules
1	Gastropods	<b>***</b>	Wavy lamination		
) \( \frac{1}{\sqrt{2}} \)	Other bivalves	-11	Cross laminae	(Ba)	Barite nodule/concretion
		$\mathbb{Z}$	Cross stratification	Ва	Disseminated barite
8	Shell fragments	₩ 777	Cross bedding Convoluted/contorted bedding	(Ca)	Calcite nodule/concretion
#	Wood framents		Flaser bedding	(c)	Carbonate nodule/concretion
δ	Fish debris		Graded interval, normal		
		<	Veins	(Ch)	Chert nodule/concretion
		R	Water escape structure	A∙	Ash/pumice pods
		$\bigcirc$	Scour	- <b>A</b>	Ashlayer