



			SIT	E 1012		LE	A COR		2H		CORED 4.7 - 14.2 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		*		S	5Y 4/2	NANNOFOSSIL CLAY MIXED SEDIMENTS, CLAY WITH NANNOFOSSILS and SILTY CLAY Major Lithologies: This core is composed of m-scale
Many many			2		2					2.5Y 3/2	alternation between pale olive (10Y 6/2) to light olive (10Y 5/2) NANNOFOSSIL CLAY MIXED SEDIMENTS, olive gray (5Y 4/2) CLAY WITH NANNOFOSSILS, and very dark gray (10YR 3/1) to black (10YR 2/1) SILTY CLAY. The boundaries are gradational
{			3				}		S	10YR 2/1	in general. General Description: The core is homogeneous or slightly to moderately bioturbated. Vertical
			4	_ T	3	ary	}		I	5Y 4/3	burrows >5 cm long and 2 cm wide occur in Section 4, 87-94 cm, and Section 6, 64-80 cm.
£ .	}		5	4 T	4	Quaternary	} }		S	40)/5	
2			6				}} }} }}			10YR 3/1	
			7 -		5		} }		S	10Y 5/2 To 10Y 6/2	
}				4 (A			3			2.5Y 4/2	
					6		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		S	10Y 5/2	
	0 10	15 3	30		CC				М	5Y 4/2	

			SIT	E 1012	HO	LE	A COR		3H		CORED 14.2 - 23.7 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				Ø	5Y 4/1	SILTY CLAY, CLAY NANNOFOSSIL MIXED SEDIMENT and SILTY CLAY NANNOFOSSIL MIXED SEDIMENT Major Lithologies: This core is composed of m-scale alternation of olive (5Y 5/3) CLAY NANNOFOSSIL MIXED SEDIMENT, medium dark gray (10Y 5/1) SILTY CLAY NANNOFOSSIL MIXED
		}	3_		2		} } }			10Y 4/1 2.5Y 3/2	SEDIMENT, and dark gray (5Y 4/1) to very dark grayish brown (2.5Y 3/2) SILTY CLAY. The boundaries are gradational.
}			4		3		»»»»»»»»»»»»»		s	5Y 5/3	General Description: The core is slightly to moderately bioturbated. A vertical burrow occurs in Section 3, 32-43 cm, and a small nearly complete mollusk shell occurs in Section 5, 50 cm.
}		**	5		4	Quaternary	;; ;; ;;		D	2.5Y 3/2 5Y 5/3	
			7		5		& } }			5Y 4/2 5Y 5/2	
}			8		6		} }} }		S	10Y 5/1 5Y 4/1	
1.25 1.5	0 10	0 10 2	9		7 CC		6		М	5Y 5/2 10Y 4/1	

			SIT	E 1012		LE	A COR				CORED 23.7 - 33.2 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
)	}	-							10Y 5/1	CLAYEY NANNOFOSSIL OOZE and SILTY CLAY
}		}	1_		1		33		s	2.5Y 7/2	Major Lithologies: This core consists of alternations between olive gray to very dark grayish
 		}	-				***			10Y 5/1	brown (5Y 4/2 to 2.5 Y 3/2) SILTY CLAY and light olive to pale olive (10Y 5/2 to 2.5Y 7/2) CLAYEY
		}	2		2		*** }} >>>		S	2.5Y 3/2	NANNOFOSSIL OOZE. Clay content is variable in both lithologies.
}		}	3_							10Y 5/2	Minor Lithology: Two thin (1-3 cm) graded layers of QUARTZ FORAMINIFER SAND occur in Section 2, 45-53 cm. Foraminifer fragments of both planktonic and
	$ \ \rangle \ $	}	-	[1,1,1,1	3		6			2.5Y 3/2	benthic species are present.
}		}	4						ı	5Y 4/2	General Description: The sediments are moderately bioturbated. Zoophycos and
}		}	5			rnary	}	ļ		5Y 3/2	Chondrites are present.
			6		4	Quaternary	>		S	5Y 4/3	
J. Warner		}	7 		5			wwwwwwwwwww		5Y 5/3	
	\ \{\{\}	{	8				,,	\ \ \ \		5Y 6/3	
}	\$	}			6		}} }} }} }} }	\ \ \		10Y 5/1	
}		Ž	9 <u> </u>					>		5Y 5/1	
		}	-		7		} } }		S	5Y 4/2	
1 1.5	0 10 0	10 2	20	主弦	cc		3		М	5Y 5/3	

			SIT	E 1012		LE	A COR				CORED 33.2 - 42.7 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		3 3 3 3	***	S	10Y 4/2 10Y 4/1 5Y 3/2 5Y 4/3 5Y 5/3 To 5Y 5/2	CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and NANNOFOSSIL CLAY WITH SILT Major Lithologies: This core consists of gradational alternations between grayish olive to pale olive (10Y 4/2 to 5Y 5/3) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS containing about 20% foraminifers and olive gray to dark olive gray (5Y 5/2 to 5Y 3/1) NANNOFOSSIL CLAY WITH SILT. Minor Lithology: An interval of dark olive gray (5Y 3/2) SILTY CLAY occurs in Section 1, 95-
			5		3 4 5	Quaternary	* * * * * * * * * * * * *		S	5Y 6/3 5Y 3/2 5Y 4/2 5Y 5/2 5Y 4/2 5Y 5/2 70 5Y 3/2	130 cm, consisting of 65% clay and quartz and feldspar silt. General Description: The sediments are moderately bioturbated. A strong hydrogen sulfide odor was emitted after spitting.
1 1.5	0 10 0) 10 2	8 - 8		6 7 CC		* * * * * * * * * * * * * * * * * * *		S	5Y 6/2 5Y 4/2 5Y 4/3 5Y 3/1 5Y 5/2	

			SIT	E 1012		LE	A COR	E (6H		CORED 42.7 - 52.2 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
	\(\)	¥		T T T				≷			CLAY WITH FORAMINIFERS and FORAMINIFER NANNOFOSSIL OOZE
			2	T T T T T T T T T T T T T T T T T T T	2		}		S	5Y 4/3	Major Lithologies: This core consists of olive to very dark grayish brown (5Y 4/3 to 2.5Y 3/2) CLAY WITH FORAMINIFERS gradationally alternating with pale olive to pale greenish yellow (10Y 6/2 to 10Y 7/2) FORAMINIFER NANNOFOSSIL OOZE. Foraminifers comprise 15%-25% of the sediment.
		}	3	T				_			General Description: The sediments are moderately bioturbated in the lower portion of the core. Chondrites are present.
}		}	4_	T T	3		33 6			5Y 5/3	
}	}	}					}} } }		ı	5Y 6/2	
}	}	(T		nary	}			5Y 5/2	
}		}		T T T	4	Quaternary	3 6			2.5Y 3/2	
		}		T		0				5Y 5/2	
			7		5		} } }		S	10Y 6/2 To 10Y 7/2	
}		}	8	T			} } }}			10Y 5/2	
}		}		T T	6		3		S	5Y 4/2	
}		}	9	T	7		<pre>}} }</pre>			5Y 5/2	
{{		7	10	T	CC		3		М	5Y 4/3	
0 1	0 10 0) 10 2	0								

			SIT	E 1012	НС	LE	A COR	Ε.	7H		CORED 52.2 - 61.7 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter		Section	Age	Structure	Disturb	Sample	Color	Description
			1		1		<u> </u>	M /	SS	5Y 4/3	SILTY CLAY and FORAMINIFER NANNOFOSSIL OOZE Major Lithologies: This core consists of gradational alternations between dark olive gray to olive (5Y 3/2 to 5Y 4/3) SILTY CLAY, olive gray (5Y 5/3), and light olive gray
}			2		2		**			5Y 3/2	olive gray (57 6/2) FORAMINIFER NANNOFOSSIL OOZE containing about 30% foraminifers and minor amounts of clay.
			3				}} }}		S D	5Y 6/2	Minor Lithology: Section 1, 76-96 cm, contains VITRIC ASH that is light olive gray (5Y 6/4) from 76-90 cm and dark greenish gray (5G 4/1) below.
}	}	}	4_		3	у	33 3			5Y 5/2	General Description: The sediment is moderately bioturbated.
}			5		4	Quaternary	}		S	5Y 4/2	
}			6		5		3			5Y 5/3 5Y	
			8_				}			5Y 5/3	
}			9_		6		}} }}			5Y 4/2 5Y 6/2	
{		*	10		7 CC		} }		s M	10Y 5/2 5Y 4/3	
1 1.5	0 20 () 10 2	20					_			

			SIT	E 1012		LE	A COR	Εŧ	3H		CORED 61.7 - 71.2 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			W		10Y 5/2	SILTY CLAY, NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY Major Lithologies: This core is composed of dark grayish
			2		2					5Y 4/2	brown (2.5Y 4/2) to dark olive gray (5Y 3/2) SILTY CLAY, grayish olive (10Y 5/1) NANNOFOSSIL OOZE WITH CLAY, and light olive gray (5Y 6/2) NANNOFOSSIL OOZE which show a m-scale alternation in the lower half of the core. The boundaries are gradational.
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		4		3	Quaternary	}		S	5Y 3/2	General Description: The core is homogeneous in its upper half and slightly to moderately bioturbated in its lower half.
			6		4	Qua			S	5Y 6/2	
}		<u>}</u>		注案			3		S	10Y 5/1	
		\	7		5		}} }}			2.5Y 4/2	
}		}	-				33			5Y 6/2	
}		}	8 <u>-</u> - - -		6		3			2.5Y 3/2	
	}	{	9 -				} } }			5Y 6/2	
		}	10		7 CC		} } }		М	5Y 4/2	
1 1.5	0 10 0) 10 2	20								

			SIT	E 1012	НС	LE	A COR	E 9	9H		CORED 71.2 - 80.7 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		}			5Y 5/2	FORAMINIFER NANNOFOSSIL OOZE and CLAYEY MIXED SEDIMENT WITH NANNOFOSSILS
			2 -		2		3			5Y 4/2	Major Lithologies: This core consists olive to pale olive (5 Y 5/3 to 10Y 5/2) FORAMINIFER NANNOFOSSIL OOZE containing 20%-30% foraminifers and minor amounts of clay. This lithology gradually alternates with olive to dark olive gray (5Y 4/3 to 5Y 3/2) CLAYEY MIXED SEDIMENT WITH NANNOFOSSILS. Foraminifer fragments are dispersed throughout the core.
			4		3	ary	}		s s _I	5/2 5Y 5/3	Minor Lithology: A thin layer of FORAMINIFER SAND occurs in Section 5, 20-21 cm. General Description: The sediments are homogeneous or
			5		4	Quaternary	}			5Y 4/2 2.5Y 4/2	slightly bioturbated.
			7		5		}			5Y 5/2	
Many Many			8 -		6		<pre>33 3 3</pre>		S	5/2 5Y 4/3 To 5Y 3/2	
1.4 1.6	0 10 0	0 10 2	10		7 CC				M	10Y 5/2	

			SIT	E 1012		LE	A COR		10H		CORED 80.7 - 90.2 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		}	W		10Y 5/2	SILTY CLAY and FORAMINIFER NANNOFOSSIL OOZE WITH CLAY Major Lithologies:
			2		_					2.5Y 4/2	This core consists of gradual alternations between pale olive to grayish olive (10Y 5/2 to 10Y 5/1) FORAMINIFER NANNOFOSSIL OOZE WITH CLAY to very dark grayish brown to gray (2.5Y 3/2 to 5Y 5/1) SILTY
			3_		2		3		S	5Y 4/1 To 2.5Y 3/2	CLAY. Silt material is made mostly of quartz and feldspar. General Description: The sediments are moderately bioturbated. Burrows near the bottom of Section 4 and in Section 6 are enriched
 	$ $	}	-		3		3			5Y 4/2	in pyrite.
	}	{	4	4-14.4.4.						5Y 5/2	
{		}	-		Н	ary	3		S	10Y 5/2	
		}	5		4	Quaternary	} } } } % % %			5Y 4/2	
}			6				Ů			2.5Y 3/2	
			7		5		}			10Y 5/1	
			8		6		} } *** } 6		S	5Y 4/3	
		\$	9				}			10Y 5/1	
{		}			7 CC		}		М	5Y 4/3	
1 1.5 () 10 0	10 2	20					_	141		!

			SIT	E 1012		LE	A COR	E	11H		CORED 90.2 - 99.7 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
		>	- Indian		1					2.5Y 3/2	CLAY WITH SILT and NANNOFOSSIL OOZE WITH FORAMINIFERS Major Lithologies:
	}	}			'					10Y 5/1	The core consists of gradual alternations between very dark grayish brown (2.5Y 3/2) CLAY WITH SILT
			2 <u>-</u>		2					5Y 5/3	and grayish olive (10Y 5/1) to olive (5Y 5/3) NANNOFOSSIL OOZE WITH FORAMINIFERS. Color transitions are gradational.
	} }		3		2					5Y 4/3	General Description: The core is chiefly homogeneous within beds, but shows moderate to
			4_		3				S	2.5Y 3/2	heavy bioturbation in Sections 6 and 7. Burrows in Section 7 are enriched in pyrite.
1			5_			rnary	}			5Y 5/3	
\{	<i>\\ \\ \\ \\ \\ \\ \\ \\</i>		6		4	Quaternary			S	2.5Y 3/2	
		}	7		5					10Y 5/1	
}		\{	8						S	5Y 5/2 10Y 5/1	
			Lindin	ph.	6		} }} }		-	2.5Y 3/2	
}		\right\{\right\}	9 1		7 CC		***		М	10Y 5/1	

			SIT	E 1012	HC	LE	A COR		12H		CORED 99.7 - 109.2 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 5/2	SILTY CLAY and CLAYEY NANNOFOSSIL OOZE
		\leq	_	77	1					2.5Y 4/2	Major Lithologies:
	{	}	1				}			2.5Y 3/2	This core consists of alternations between very dark grayish brown
			_				} }		S	5Y 4/2	(2.5Y 3/2) to dark olive gray (5Y 3/2) SILTY CLAY, dark grayish brown
)	<	2							2.5Y	(2.5Y 4/2) to olive gray (5Y 4/2) and olive gray (5Y 5/2) CLAYEY NANNOFOSSIL OOZE. Color and
	\$	}	-		2					5/2	compositional changes are gradual, with 30-100 cm thick beds.
}		}	3							2.5Y 4/2	General Description:
		\	-							5Y 3/1 5Y	The core is homogeneous within beds and displays few distinct burrows.
		{	4 -		3					4/2	Sections 1, 6, and 7 show pervasive gas-expansion partings. A 10-cm gas
	}	}	-						,	5Y 3/2	expansion void occurs in Section 2.
		}	_			ary			Ċ	5Y	
}		}	5		1	Quaternary				5/2	
}	{	}	-		7	Qui	}			2.5Y	
		}	6							4/2	
}	{	}	_				3			5Y 3/2	
		}	7		5		,			5Y 4/2	
	\ \	}	-	======						2.5Y	
				======						3/2	
		\rightarrow	8 - - -		6				S	5Y	
	\	}	_						3	3/2 5Y	
}	}	5	9							4/1	
		{	_		7		}			2.5Y 4/2	
}		}	10		CC			-	М	2.5Y 3/2	
0 1 (0 10 0) 10 2	20								

			SIT	E 1012			A COR	Е			CORED 109.2 - 118.7 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
				DET	1			WW		2.5Y 3/2	SILTY CLAY WITH NANNOFOSSILS OR FORAMINIFERS and NANNOFOSSIL OOZE WITH CLAY
			2		2				S	5Y 4/2	Major Lithologies: This core consists of irregular alternations between dark olive gray (5Y 3/2) to very dark grayish brown (2.5Y 3/2) SILTY CLAY WITH NANNOFOSSILS OR FORAMINIFERS and olive gray (5Y 4- 5/2) to light brownish gray (2.5Y 6/2) NANNOFOSSIL OOZE WITH CLAY. Both lithologies contain abundant silt- sized calcite fragments that may be
	}	}	-				}			5Y 5/1	remnants of partially dissolved foraminifers. Most color and composition units average about 50
	{	}	4		3		\$ \$ \$		S	2.5Y 3/2	cm in thickness, but locally vary from 20-200 cm.
}		{	-			Pliocene	3			5Y 4/2	General Description: Distinct burrows are rare. Sections 1 and 3 are disrupted by pervasive
{		}	5		4	ate Pliod				5Y 3/2	bedding-parallel gas-expansion voids. An 8-cm gas expansion void occurs in Section 1.
}	}	{				10				5Y 6/2	Geodoff 1.
{		{	6							2.5Y 4/2	
{		}	- - - 7 -		5		}			5Y 4/1	
		{	J				}			2.5Y 6/2	
}		{	8 <u>-</u> - -		6					5Y 5/2	
	}	}	-				}			5Y 4/2	
$\left.\right $		>	9 -							5Y 3/2	
	}	}	-		7				S	5Y 4/3 2.5Y	
0 1	0 10 0) 10 2	10 20	101	CC				М	4/2	

			SIT	E 1012	_	LE	A COR				CORED 118.7 - 128.4 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
}		}	-				3		s	5Y 3/2	SILTY CLAY WITH NANNOFOSSILS and NANNOFOSSIL OOZE
}	{	}	1_		1		3	H		5Y 5/1	Major Lithologies: This core consists of irregular 50-150 cm alternations between dark olive
}			2		2		}			2.5Y 3/2	gray (5Y 3/2) to very dark grayish brown (2.5Y 3/2) SILTY CLAY WITH NANNOFOSSILS and olive to olive gray (5Y 5/2 to 5Y 5/3) NANNOFOSSII OOZE. Both lithologies contain
			3				}			5Y 5/2	abundant silt-sized calcite fragments that may be remnants of partially dissolved foraminifers. Subtle variations in organic content may be al important control of color. General Description:
}		}	4		3	<u>ه</u>	3			5Y 4/2	This core contains very little gasexpansion voids. Within beds, the
}		}	5]		4	late Pliocene	}			2.5Y 3/2	fabric is homogeneous and displays few distinct burrows.
}		}	-		-					2.5Y 4/2	
			6 - - 7		5		3			5Y 5/2	
}		>					}			5Y 3/2	
		}	8		6				S	5Y 5/3	
	\	`			CC				S M	5Y 6/2	

			SIT	E 1012	НО	LE	A COR		15X		CORED 128.4 - 138.0 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
	}									10Y 4/1	NANNOFOSSIL CLAY MIXED SEDIMENT
{	}	}	1_		1					2.5Y 4/2	Major Lithology: This core consists of very dark grayish brown (2.5Y 3/2) to olive gray (5Y 5/2) NANNOFOSSIL CLAY MIXED
}	}	}	2							5Y 3/1	SEDIMENT. Thick (30-150 cm), irregular alternations in color grade into each other and reflect subtle changes in composition, such as a few percent
}	}		3		2						of organic matter. Minor Lithology: A 5-cm thick clast of PYRITIC
	}						♦		ı	2.5Y 4/2	SANDSTONE occurs at Section 3, 61- 66 cm. The sandstone is contains abundant mafic grains, pyrite, and a
}	$ \rangle $	{	4		3	ne		li	'		few possible bivalve fragments. There are large pits (Pholadae borings?) covering its surface. There are no
			5		4	late Pliocene				2.5Y 5/2	primary sedimentary structures associated with the clast in the surrounding mud.
{		}	6_							2.5Y 3/2	
		}			5			/	S	5Y 5/2	
}			7				}	www.		2.5Y 5/2	
3		3	8		6		}} }}	\\\\\		5Y 5/1	
			9_		cc			WWWWWWWWWW	S M	2.5Y 3/2	
1 1.5	0 20 -2	5 0 2	25	<u> </u>	_			_	IVI		!

			SIT	E 1012		LE	A COR	E	16X		CORED 138.0 - 147.6 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
J	W		1		1			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		5Y 5/2	SILTY CLAY and CLAYEY NANNOFOSSIL MIXED SEDIMENT Major Lithologies: This core consist of very thick (100- 200 cm) interbedding of very dark grayish brown (2.5Y 3/2) to olive gray
}			2		2				S	5Y 4/2	(5Y 4/2) SILTY CLAY to grayish brown (2.5Y 5/2) to dark grayish brown (2.5Y 4/2) CLAYEY NANNOFOSSIL MIXED SEDIMENT. Color and compositional transitions are very gradual, occuring
}			3		3	Ф				2.5Y 5/2	over 10-50 cm. In this core, the amount of organic matter appears to vary nearly inversely with nannofossils. General Description: This core is well homogenized and highly disturbed by XCB coring. No
}		{				Pliocene			S	2.5Y 4/2	sedimentary structures are visible other than the gradational bedding.
			5	7 0	4	late			5	2.5Y 3/2	
			7_		5			-		2.5Y 5/2	
			8		6					5Y 4/2	
1 1.5	0 10 0	1 10 2	9		cc				М	2.5Y 5/2	

			SIT	E 1012		LE	A COR				CORED 147.6 - 157.2 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
		A~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2		1				S	5Y 3/2	CARBONATE CLAY MIXED SEDIMENT and NANNOFOSSIL CLAY MIXED SEDIMENT Major Lithologies: This core is composed of m-scale indistinct alternation of dark olive gray (5Y 3/2) to dark gray (5Y 4/1) CARBONATE CLAY MIXED SEDIMENT and olive gray (5Y 5/2) NANNOFOSSIL CLAY MIXED
			3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		3	ate Pliocene				2.5Y 4/2	SEDIMENT. Many carbonate grains may be fragments of foraminifers. Boundaries of beds are gradational. General Description: The core is moderately disturbed and partly biscuitted. The upper two thirds of the core are homogeneous whereas the lower one third is moderately bioturbated.
}	\		5			late F				5Y 4/2	
		\	6		4				S	5Y 5/2	
}		{	-		5		3			2.5Y 4/2	
{	$\left \begin{array}{c} x \\ y \end{array} \right $	}	7				** ** ** ** ** **		D	5Y 5/2	
}			8		6		33 33 33 22		S	5Y 4/1 5Y	
1 1.5 (0 10 0	10 2			CC		"	ļ.	M	4/3	

			SIT	E 1012		LE	A COR		18X		CORED 157.2 - 166.8 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	2.5Y N2/0 2.5Y 3/2	CLAYEY NANNOFOSSIL OOZE, CLAY NANNOFOSSIL MIXED SEDIMENT and CALCAREOUS CLAY
\ \ \ \			2		2					2.5Y 4/2 To 2.5Y 3/2	Major Lithologies: This core is composed of m-scale alternation of olive gray (5Y 5/2) CLAYEY NANNOFOSSIL OOZE, olive gray (5Y 4/2) CLAY NANNOFOSSIL OOZE MIXED SEDIMENT, and very dark grayish brown (2.5Y 3/2) to black (2.5Y 2/0) CALCAREOUS CLAY. The sediments consistently contain approximately 10% of foraminifers. Color and compositional boundaries boundaries are gradational.
		}	4_		3	ø.				5Y 3/1	General Description: The core is mostly homogeneous part,
}			5		_	late Pliocene			I S	5Y 4/2	probably reflecting bioturbation. Only the lower part of the core is slightly bioturbated.
		{			4						
{		}	6					!		2.5Y 3/2	
{	}	*	7		5			MM	S	5Y 5/2	
}	$ \ \rangle $	}					}} }}	1		2.5Y 3/2	
		}	8 <u>-</u>		6		3	MM		5Y 4/3	
1	0 10 0) 10 2	20		CC			!	М		

			SIT	E 1012			A COR	E ·	19X		CORED 166.8 - 169.9 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
Mymryhrym -		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2		2 CC	late Pliocene	% % %		M	5Y 5/2 2.5Y 3/2 2.5Y 5/2	CLAYEY NANNOFOSSIL OOZE and CALCAREOUS CLAY Major Lithologies: This core is composed of m-scale alternation of grayish brown (2.5Y 5/2) CLAYEY NANNOFOSSIL OOZE and very dark grayish brown (2.5Y 3/2) CALCAREOUS CLAY. The boundaries are gradational. General Description: The core is moderately bioturbated in the upper part and homogeneous in the lower part.
1.5 1.6 1	10 15 0) 5 1	0								

			SIT	E 1012		LE	A COR		20X		CORED 169.9 - 178.5 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
	V -	\nearrow							T D T	5Y 6/3	NANNOFOSSIL CLAY MIXED SEDIMENT
}		~~	1		1		3	ニーニー		5Y 5/2	Major Lithology: This core consists of light olive gray to
}		}					,	1111		2.5Y N3/0	very dark grayish brown (5Y 6/2 to 2.5Y N3/0) NANNOFOSSIL CLAY MIXED SEDIMENT. Composition varies between 40%-80% clay content
}	}	}	2		2					5Y 5/2	with clay-rich intervals being darker colored.
}	}	}	3_							0.51/	Minor Lithology: Section 1, 0-14 cm, consists of light gray (5Y 6/1) DOLOSTONE.
}		\{\}			3		}	ニーニー		2.5Y 4/2	General Description: Sediments show moderate bioturbation. The XCB caused
		}	4			Ф		\perp			moderate disturbance of this core creating "drilling biscuits" throughout
}	}	} }	5			e Pliocene	}} }}	\perp \perp \perp \perp \perp		5Y 4/3	the entire interval.
	}	~~~~~	1		4	late		\perp		5Y 5/2	
	}	\ }	6					\perp \perp \perp	S	5Y 6/2	
}	{	}	7 -		5		}}	\perp \perp \perp		2.5Y 4/4	
{	}	3	-				>>	<u></u>		2.5Y 4/2	
{	{		8						S	2.5Y 3/2	
]	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6		}	1-1-1-1		5Y 4/2	
\	}	}	9		7		} }	$\wedge \wedge \wedge$,.	5Y 3/2	
1 2	0 20 () 10 2	<u>L </u>			<u> </u>			M		1

SI	ΓΕ 1012	HC	LE	A COR		21X		CORED 178.5 - 188.0 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}		S	5Y 3/2	SILTY CLAYSTONE and NANNOFOSSIL CHALK WITH CLAY Major Lithologies: This core consists of dark olive gray
2_				}		S D	5Y 5/2	(5Y 3/2) SILTY CLAYSTONE and grayish yellow (10Y 7/2) NANNOFOSSIL CHALK WITH CLAY. Contacts between lithologies are gradational.
3_		2			4444444444	S	5Y 6/3	General Description: Sediments show slight bioturbation. The XCB caused moderate disturbance of this core creating "drilling biscuits" throughout the entire
4_		3	late Pliocene	}} }	 - -	5	5Y 5/2	interval. Note: Section CC, 21-78 cm, was extruded on drill floor while coring and stratigraphic orientation is unknown.
5_		4	late				5Y 3/2 5Y 5/2	
6_						ı	10Y 7/2	
7_		5		}} }}			5Y 5/2	
		6					5Y 4/3	
8_		СС			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		5Y 5/2	

SIT	E 1012	HC	LE	A COR	E			CORED 188.0 - 197.6 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		33			10Y 5/2	NANNOFOSSIL CHALK WITH CLAY and CARBONATE CLAY MIXED SEDIMENT
1_				}} }}	\perp \wedge \wedge	S	5Y 6/3	Major Lithologies: This core consists of olive to olive gray (5Y 5/4 to 5Y 4/2) CARBONATE CLAY MIXED SEDIMENT and pale olive (10Y
2		2			44444	s	5Y 4/2	5/2 to 5Y 6/3) NANNOFOSSIL CHALK WITH CLAY. Composition of both lithologies is variable. General Description:
3			ene	**	$\neg \neg \neg \neg \wedge$	5		Sediments are slightly bioturbated. The XCB caused moderate disturbance of this core creating "drilling biscuits"
4		3	late Pliocene		^^^^		5Y 5/2	throughout the entire interval.
5_				33	^^^^		5Y 5/4	
6		4			^^^^	S		
-		5			$\langle \wedge \wedge \rangle$		5Y 5/3	
7		CC			>	M		

SIT	E 1012	HC	LE	A COR	Ε:			CORED 197.6 - 207.3 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1			HHHHHHHH		5Y 5/2	NANNOFOSSIL CHALK WITH CLAY Major Lithology: This core consists of olive gray to olive (5Y 5/3 to 5Y 4/2) NANNOFOSSIL CHALK WITH CLAY. Clay content varies between 10%-20%.
2		2		}		S	5Y 4/2	General Description: Sediments are slightly bioturbated. The XCB caused moderate disturbance of this core creating
3_							5Y 5/2	"drilling biscuits" throughout the entire interval.
4_		3	late Pliocene	} }	1			
5		4	lat	}			5Y 5/3	
6 - - 7		5				S	5/3	
8_		6 CC				M		

SIT	ΓE 1012	HC	LE	A COR	E			CORED 207.3 - 216.7 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1			$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	S	5Y 4/3	CLAYEY CARBONATE MIXED SEDIMENT Major Lithology: This core consists of olive gray to olive (5Y 5/3 to 5Y 4/2) CLAYEY CARBONATE MIXED SEDIMENT consisting of 10%-40% clay, 30%-60%
2_	0.000	2					5Y	nannofossils, and about 10% foraminifers.
	0-0-0-0			3			5/3	General Description: Sediments are slightly bioturbated. The XCB caused moderate disturbance of
3_	0000			}	그		5Y 4/3	this core creating "drilling biscuits" throughout the entire interval.
4_	0.000	3	ocene	} } }	1		10Y 4/1	
	0-0-0-0		late Pliocene	3	1		5Y 6/2	
5_	0.000	4					10Y 4/1	
6_	0000				>>>		10Y 6/2	
	0000	5			\ \ \ \		5Y 4/3	
7	0000							
8_		6			$\wedge \wedge \wedge \wedge$	s	5Y 5/4	
		CC			L	М		

SI	ΓΕ 1012	HC	LE	A COR				CORED 216.7 - 226.4 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		}	\\\\\\	s	5Y 4/2 5Y 5/2	CLAYEY CARBONATE MIXED SEDIMENT WITH VOLCANIC GLASS
1_							5Y 4/2	Major Lithology: This core consists of olive gray to very dark grayish brown (5Y 5/2 to
2						D	2.5Y 3/2	2.5Y 4/2) CLAYEY CARBONATE MIXED SEDIMENT WITH VOLCANIC GLASS. Clay content
-	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2						varies between 25%-50% with darker colored intervals associated with greater clay content. Foraminifers compose about 10% of
3_	0-0-0			-A			5Y 4/3	the sediment. Minor Lithology: Section 3, 36-40 cm, contains a
4_	0000	3	ate Pliocene					VITRIC ASH layer. General Description:
5	0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	4	late Pli	} } 6	1444444444			Sediments are slightly bioturbated. The XCB caused moderate disturbance of this core creating "drilling biscuits" throughout the entire interval. A void related to gas expansion occurs from Section 5, 98 cm, to Section 6, 4 cm.
7_		5				S	2.5Y 4/2	
	Void							
8_	000000000000000000000000000000000000000	6						
		СС			⊥	М		

SIT	TE 1012	HC	LE	A COR	E	26X		CORED 226.4 - 236.0 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1			<u> </u>	S	5Y 5/2	NANNOFOSSIL CHALK WITH CLAY and CLAYEY NANNOFOSSIL CHALK Major Lithologies: This core is composed of olive gray (5Y 5/2 to 5Y 4/2) NANNOFOSSIL CHALK WITH CLAY and CLAYEY NANNOFOSSIL CHALK.
2		2		}	111111		5Y 4/2 5Y 4/3	Minor Lithology: A 60-cm-thick bed of very dark grayish brown (2.5Y 3/2) CLAY CARBONATE MIXED SEDIMENT WITH SILT occurs in the upper part of Section 3.
3_		3		-	1111111	s	2.5Y 3/2	General Description: The entire core is biscuitted and moderately to highly fractured, rendering it difficult to observe
4		_	Pliocene		$\dashv \dashv \land \land \land$		5Y 4/3	sedimentary structures. Slight bioturbation is observable in a few horizons.
5		4	late P	3				
7		5			111111		5Y	
8_		6			<u> </u>		5/2	
9		7 CC			$\wedge \vee \vdash \vdash \vdash \vdash \vdash$	s M		

SIT	ΓΕ 1012		LE	A COR				CORED 236.0 - 244.6 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1			^^^^^^	S	5Y 4/2	CLAYEY NANNOFOSSIL MIXED SEDIMENT and NANNOFOSSIL CHALK WITH CLAY Major Lithologies: This core consists of light olive gray (5Y 6/2) NANNOFOSSIL CHALK WITH CLAY gradationally alternating with olive (5Y 5/3) CLAYEY
3_		2		}	\^^^\		5Y 6/2	NANNOFOSSIL MIXED SEDIMENT. General Description: Sediments are slightly bioturbated. "Drilling biscuits" occur throughout the entire interval.
4_		3	early Pliocene	}	1-1-1-1	DS	5Y 5/3	
			ear		1	I	5Y 6/2	
5		4		}	1		5Y 5/3	
6		5 CC			1-1-1-1-1-1-1-1-1	S	5Y 6/2 To 5Y 5/2	

SI	TE 1012	HC	LE	A COR	E			CORED 244.6 - 254.2 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		}} }} } } 6	^^^^	Т	5Y 3/2 5Y 5/2	NANNOFOSSIL CHALK, CLAY CARBONATE MIXED SEDIMENT and DIATOMITE NANNOFOSSIL CHALK WITH CLAY Major Lithologies:
2		2		}	<u> </u>	S	5Y 5/3	This core consists of gradual alternations between light olive gray (5Y 6/2) NANNOFOSSIL CHALK, olive (5Y 5/3) CLAY CARBONATE MIXED SEDIMENT, and olive (5Y 5/3) DIATOMITE NANNOFOSSIL CHALK WITH CLAY containing about 30% diatoms. Foraminifers compose minor
4_		3	ine	3 3 3 3	$\sqrt{\square\square\square\square\square\square\square}$		5Y 6/2	(3%-10%) amounts of the sediment. Minor Lithology: Section 1, 0-32 cm contains a dark olive gray (5Y 3/2) DOLOSTONE layer with a 1 cm basal SANDSTONE layer.
5	0000	4	early Pliocene	} »>>	,	S	5Y 5/3	General Description: The sediments are slightly bioturbated with Chondrites and Zoophycos present. "Drilling biscuits" occur throughout the entire interval.
6_				}} 6	1111		5Y 6/4	
7		5		66	<u> </u>		5Y 5/4	
8_		6		} }	^^^^			
9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CC		}	<u></u>	М	5Y 4/3	

SIT	ΓE 1012	HC	LE	A COR	E			CORED 254.2 - 263.9 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
- - - - - 1		1					5Y 5/2 To 5Y 3/2	NANNOFOSSIL CHALK WITH FORAMINIFERS and CLAY CARBONATE MIXED SEDIMENT Major Lithologies: This core consists of gradationally
2		2					5Y 5/2	mixed olive to olive gray (5Y 5/3 to 5Y 5/2) NANNOFOSSIL CHALK WITH FORAMINIFERS and CLAY CARBONATE MIXED SEDIMENT
-		۷				S	5Y 5/3	containing about 30% clay and 50% carbonate sediment.
3	00000	3		33 6 6 33 6	1		5Y 4/3	Minor Lithology: A very dark grayish brown (2.5Y 3/2) CARBONATE CLAY MIXED SEDIMENT containing about 50%
4_	00000	3	ocene	3 6	1	S	2.5Y 3/2	clay occurs in Section 3. General Description: Sediments show moderate
5	0-0-0-0	4	early Pliocene	** ** **	1		5Y 4/3	bioturbation. The entire core is extensively biscuited and fractured. Note: Section 1 was extruded onto
		4		3 >>>	1		5Y 5/3	the rig floor during coring operations and has no reliable stratigraphic orientation. A gas void occurs in
6_				3	土		5/3	Section 5, 30-32 cm.
7	Void	5		3 3 3	1		5Y 5/3 5Y	
	0-0-0-0	6		3	1111	S	5Y 4/3	
8		cc		3 »» 3	1	M	5Y 5/2	

SI	ΓΕ 1012	HC	LE	A COR				CORED 263.9 - 273.5 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		}			5Y 3/2	NANNOFOSSIL CHALK, CLAY WITH CARBONATE and SILTY CLAY WITH
							2.5Y 3/2	CARBONATE
		2		}} >>> }}			10Y 5/1	Major Lithologies: This core consists of approximately 50- cm alternations between light olive gray (5Y 6/2) NANNOFOSSIL CHALK,
2		3		}		S	2.5Y 5/2	grayish brown (2.5Y 5/1) CLAY WITH CARBONATE, and very dark grayish brown (2.5Y 3/2) SILTY CLAY WITH CARBONATE. Color transitions are gradual over centimeters to decimeters.
3_	Void			}} } } }	<u>+</u>	S _I	5Y 6/2	Minor Lithology: Section 1, 0-28 cm, contains dark olive
4_		4		} >>> >>> >>> >>>			2.5Y 3/2	gray (5Y 3/2) DOLOSTONE that is bioturbated and contains visible foraminifers. It has a sharp contact with the underlying sediment.
		7	sene	}			5Y 4/3	General Description: Discernible bioturbation is markedly
5			ate Miocene	33			2.5Y 3/2	increased in this core and includes Zoophycos and Chondrites. The core
		5	8	33 33 3			5Y 5/2	is locally fractured into segments.
6_				}		S	2.5Y 3/2	
7		6		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		S	10Y 4/1 2.5Y	
		U					3/2 10Y	
8_				} } }	_		4/1 2.5Y 3/2	
		7		3	<u>+</u>		5/2 5Y	
9_					1		4/2	
-		8 CC			 >		5Y 3/2 5Y	
10	ă				>	М	4/2	

			SIT	E 1012			B COR				CORED 0.0 - 8.8 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (650–700 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure		Sample	Color	Description
				Void				00		2.5Y 4/2	CLAY WITH NANNOFOSSILS AND FORAMINIFERS
			1		1		}			2.5Y 4/2	Major Lithology: This core consists of very thick alternations between very dark grayish brown (2.5Y 3/2) to olive gray (5Y 4/2) CLAY WITH NANNOFOSSILS AND FORAMINIFERS.
	W.W.W.		3		2			-		2.5Y 3/2	General Description: This core is soupy at the top and emits a strong sulfurous odor. The core is moderately bioturbated with few distinct burrows. A chondrites tracefossil is present in Section 6.
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		4 5		4	Quaternary	3 4 4 4 6 7 8 7 8 7 8 7 8 7 8 8 7 8 8 8 9 8 8 9 8 8 9 9 8 9 9 8 9 9 9 8 9 9 9 8 9 9 9 9 8 9			5Y 4/2	
*			8		5 6		% % % % %		M	2.5Y 3/2 2.5Y 4/2 2.5Y 3/2	

			SIT	E 1012		LE	B COR		2H		CORED 8.8 - 18.3 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			-	s	5Y 2.5/1	CLAYEY NANNOFOSSIL MIXED SEDIMENT and SILTY CLAY WITH CARBONATES
}		\ \ \	1				}	!		5Y 4/2	Major Lithologies: This core is composed of 50-150 cm scale alternations between olive (5Y 5/3) to olive gray (5Y 4/2) CLAYEY NANNOFOSSIL MIXED SEDIMENT
}	}	}	2				\$\$ }}			2.5Y	and dark olive gray (5Y 3/2) to black (5Y 2.5/1) SILTY CLAY WITH
{		{	-		2		» » » «			3/2 5Y	CARBONATES. Color transitions are gradational. All lithologies contain 5%-
{		}	3 -				33 6 33			4/2	10% foraminifers. The silt fraction is principally composed of quartz and
{	{	}	-				}			2.5Y 3/2	feldspar.
			4		3	Quaternary	» » » »		S	5Y 5/3	General Description: The core is homogeneous to moderately burrowed. Chondrites are present in Sections 2 and 6. The core emits a strong sulfurous odor.
}		{			4	Quate				2.5Y 4/2	
			6 - - 7		5					5Y 6/2	
}	}	$\langle \cdot \rangle$	-		Н		» «			5Y 3/2	
}	}	}	<u>8</u> -				» » » 6			5Y	
	$ $ $\{$ $ $	{			6		% % % % % % % % % % % % % % % % % % %		S	4/3	
3	\	}	9 -		7		— ;; ;; ;;			10Y 4/1	
1.4 1.6	1 1 0 10 0) 10 2	20	<u>:::::</u>	υЧ		<i>"</i>	Ľ	M		

			SIT	E 1012	НС	LE	B COR	Ε;	зН		CORED 18.3 - 27.8 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		} 6 **	W		5Y 4/1	SILTY CLAY WITH FORAMINIFERS and NANNOFOSSIL OOZE WITH CLAY
}		{	1_				}} }} }} }}	!		5Y 3/2	Major Lithologies: This core consists of alternations
			-							5Y 4/2	between light olive gray (5Y 6/2) NANNOFOSSIL OOZE WITH CLAY
}		{	2		2		>		S	5Y 6/2	and olive gray (5Y 4/2) to very dark grayish brown (2.5Y 3/2) SILTY CLAY WITH FORAMINIFERS. Color transitions are gradual.
			3		3		} } } }			5Y 4/2	Minor Lithology: A thin, sharp-based bed of QUARTZ FELDSPAR SAND WITH FORAMINIFERS occurs at the base of Section 7.
}		7	4				}			5Y	General Description: The sediments are moderately bioturbated with occurences of
	{	}	-			rnary		!	0	4/2 2.5Y	Zoophycos and Chondrites. The core emits a strong sulfurous odor.
			5		4	Quaternary	}} 6 }}		S	3/2 5Y	
{		}					% % %			6/2 10Y	
}		}	6				6			4/2	
}		}	7_		5		6 }			5Y 4/1	
{	\	<i>\\</i>								2.5Y 4/2	
{	}	{	8							10Y 6/2	
}	[}	-	基础	6		6			5Y 7/1	
}			9				_ %	-	S	2.5Y 3/2	
}		}			7					5Y 4/2	
1 1.5	0 10 0	10 2		_+	CC			Ш	M		<u> </u>

			SIT	E 1012	HC	LE	B COR				CORED 27.8 - 37.3 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
}	}	}	-					≯		5Y 6/1	NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS and SILTY
		}	1		1		» 6 » 6 »			10Y 4/1	CLAY WITH FORAMINIFERS Major Lithologies: This core consists of gradational alternations between light grayish
}	{	}	-							5Y 4/1	brown (2.5Y 4/2) to light olive gray (5Y 6/1) NANNOFOSSIL OOZE WITH
}			3		2		<pre> % 6 % % % % % </pre>			10Y 5/1	CLÂY AND FORAMINIFERS and very dark grayish brown (2.5Y 3/2) SILTY CLAY WITH FORAMINIFERS. Beds grade together in color and in composition. General Description: The sediments are moderately
		}	4		3		» » » »		S	2.5Y 6/2	Chondrites. The cores emit a strong sulfurous odor.
			5_		4	Quaternary	3 3 3 3 4			5Y 5/2	
		{	6				} }} }}			2.5Y 5/2 5Y 6/1 5Y	
}		}	7 -		5		**			5/2 10Y	
}	{	{	-				;; 6 ;; 6			4/1 10Y	
}			8 8				3		S	3/1 2.5Y 3/2	
			9		7		}} }} }}			5Y 5/2	
	\$				СС				М	10Y 4/2	
1 1.5	0 10 -2	0 0 2	20								

			SIT	E 1012	НО	LE	B COR	Ε 5			CORED 37.3 - 46.8 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					5Y 4/2	CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and NANNOFOSSIL CLAY WITH SILT Major Lithologies: This core is composed of gradational
}			2		2					5Y 3/2	alternations between light olive gray (5Y 6/2) to olive (5Y 5/3) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and dark to medium olive gray (5Y 5/2 to 5Y 5/3) NANNOFOSSIL CLAY WITH SILT.
1		1	3					i		2.5Y 4/2	General Description: The core is moderately disturbed by
}		}					3			5Y 5/2	coring and gas expansion partings. Decreased sulfurous odor from this
		{	4_		3		} }			2.5Y 4/2	core.
}		}				λ				5Y 6/2	
}		}	5_			Quaternary	33 33 33 33			5/2 5Y	
}	{	5	-		4	Que	» } }			4/2	
}		}	6_							10Y 4/1	
}		}			5		3			5Y 3/2	
}	$ $ $\}$ $ $	}	7		Э					5Y	
}	}	}			Н					5/2	
}	}	}	8_		6		33				
{	}						3			5Y 3/2	
3		{	9		7		}				
}	{	}	-		, CC		33		М	5Y 4/2	
1 1.5	5 10 0	10 2	20								

			SIT	E 1012		LE	B COR				CORED 46.8 - 56.3 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
\(\frac{15}{15}\)	0 10				1 2 3 4 5 6 7 CCC	Quaternary	***		S SS S M	10Y 4/1 5GY 5/2 5GY 4/2 10Y 4/2 10Y 4/2 10Y 4/2 5Y 4/2 5Y 4/2 5Y 4/2 5Y 6/3 5Y 6/3 5Y 4/2 5Y 6/3	NANNOFOSSIL CLAY and SILTY CLAY WITH FORAMINIFERS Major Lithologies: The core consists of irregular 30-150 cm alternations between light olive (10Y 5/2) NANNOFOSSIL CLAY and olive gray (5Y 4/2) to dark olive gray (5Y 3/2) SILTY CLAY WITH FORAMINIFERS. Color transitions are gradational. Minor Lithology: Sections 5 and 6 contain thin beds of pale olive (5Y 6/3) to dark greenish gray (5G 4/1) VITRIC VOLCANIC ASH. General Description: The sulfurous odor of the overlying cores is mostly replaced by petroliferous odor. The core is slightly to moderately bioturbated and only slightly disturbed by the coring process.

				SIT	E 1012			B COR				CORED 56.3 - 65.8 mbsf
SEDIMENT and FORAMINIFER CLAY STATE AND A SEDIMENT AND FORAMINIFER CLAY Major Lithologies: This core is composed of medium This core is composed of medium dark gray (107 5/1) to olive gray (57 5/2) NANNOFOSIL CLAY MIXED SEDIMENT and dark olive gray (2.57 Y 5/2) 2.57 Y 3/2 SEDIMENT and FORAMINIFER CLAY MIXED SEDIMENT and dark olive gray (58 5/2) NANNOFOSIL CLAY MIXED SEDIMENT and dark olive gray (2.57 Y 5/2) 2.57 Y 3/2 SEDIMENT and FORAMINIFER CLAY With this core is composed of medium This core is composed of medium dark gray (107 5/1) to olive gray (58 5/2) NANNOFOSIL CLAY MIXED SEDIMENT and dark olive gray (58 5/2) SEDIMENT and forally gray (107 5/1) to olive gray (58 5/2) SEDIMENT and FORAMINIFER CLAY MIXED SEDIMENT and forally gray (107 5/1) to order gray (107 5/1) to order gray (107 5/1) to olive gray (107 5/1) to order gray (1	density	(%)	suscept.	Meter		Section	Age	Structure	Disturb	Sample	Color	Description
Sylvariant	5	\)	-	T-T T-T				≷			
1	}		{	1_		1		}				CLAY Major Lithologies:
Second Description:			}									dark gray (10Y 5/1) to olive gray (5Y 5/2) NANNOFOSSIL CLAY MIXED
3 3 3 3 3 3 3 3 3 3	}		}	2_		2						3/2) FORAMINIFER CLAY which show m-scale alternations. The
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		}		-								Ĭ
A		}		3_	777 777 	3						VITRIC VOLČÁNIC ASH pod occurs in Section 6, 120 cm.
A				_	1			}}	>			The core is moderately disturbed and
5 6 3 3 4 4/2 57 57 5/2 2.5Y 3/2 10Y 5/1 2.5Y 4/2 10Y 5/1 2.5Y 4/2 10Y 5/1 2.5Y 4/2 2.5Y 4/2 2.5Y 3/2 10Y 5/1 2.5Y 4/2 2.5Y 3/2 10Y 5/1 1				-		4	ry					slightly to moderately bioturbated.
5 6 3 3 4 4/2 57 57 5/2 2.5Y 3/2 10Y 5/1 2.5Y 4/2 10Y 5/1 2.5Y 4/2 10Y 5/1 2.5Y 4/2 2.5Y 4/2 2.5Y 3/2 10Y 5/1 2.5Y 4/2 2.5Y 3/2 10Y 5/1 1				5_	714 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		aterna	}	3			
5 5 5 5 5 5 5 5 5 5	\downarrow		}				Quí				5Y	
3 A* S 2.5Y 3/2 10Y 5/2 S 10Y 5/1 2.5Y 4/2 10Y 5/1 2.5Y 4/2 4/2 4/2 4/2 4/2 4/2 2.5Y 3/2 M 3/2			{	6_		5		}	ļ		5Y	
7	}		}	-	가수 : : : : : : : : : : : : : : : : : : :			}	ļ.	S	2.5Y	
8 3 10Y 5/11 2.5Y 4/2 10Y 5/11 2.5Y 4/2 2.5Y 4/2 2.5Y 3/2] }	\	\$	7							10Y	
33 A* 35 Y 4/2 10Y 5/1 2.5Y 4/2 2.5Y 4/2 2.5Y 3/2	}		}			6				s	10Y	
7 9 100 100 100 100 100 100 100 100 100 1	}	}	}	-				33 A•				
7 9			}	8_							4/2	•
CC	}		}	9		7						
CC	{		\leq									
			ı		**************************************	СС			<u>></u>	М	2.5Y	

			SIT	E 1012	НО	LE	B COR				CORED 65.8 - 75.3 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			wwwww		2.5Y 5/2	NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS and CLAYEY NANNOFOSSIL MIXED SEDIMENT
		}					} A•	>		2.5Y 3/2	Major Lithologies: This core consists of light olive gray to gray (5Y 6/2 to 5Y 5/1) NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS and very dark
	}	{	2		2		3			2.5Y 4/2 2.5Y	grayish brown to olive (2.5Y 3/2 to 5Y 5/3) CLAYEY NANNOFOSSIL MIXED SEDIMENT. Foraminifers compose
		}					3	ľ		3/2	about 10%-15% of the sediment. Color changes are gradual.
		}	3				}			5Y 3/2	Minor Lithology: Section 1, 9 cm, contains medium light
{		1			3		*				gray (N6) VITRIC VOLCANIC ASH.
}		}	4					ļ	S	5Y 6/2	General Description: Sediments are slightly bioturbated.
}		}	5			nary				2.5Y	
}		}	J -		4	Quaternary			S	3/2 5Y	
		}	6			0	6			7/1 5Y 6/2	
}		}	-				}			2.5Y 4/2	
}		{	7		5		}			5Y 6/2	
}	$ $ $\{$ $ $	{					3			5Y 5/3	
{		\{\ \	8				>			5Y 5/2	
		{			6		}			10Y 5/1	
	$ \ \ \rangle \ $	>	9		Н		3			J/ I	
}		}			7		}			2.5Y 4/2	
		ı	10		СС				М	5Y 4/2	
0 1	0 10 0) 10 2	20								

			SIT	E 1012	HC	LE	B COR		9H		CORED 75.3 - 84.8 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		6		S	5Y 3/2 To 5Y 4/3	NANNOFOSSIL CHALK WITH FORAMINIFERS and CLAY WITH FORAMINIFERS Major Lithologies: This core consists of gradual
	$\left \begin{array}{c} \\ \end{array} \right $	}	2				3 3 3 3 3		S	5GY 5/2	alternations between dark olive gray to olive (5Y 3/2 to 5Y 4/3) CLAY WITH FORAMINIFERS and greenish gray to light olive gray (5GY 5/2 to 5Y
			3		2		3			2.5Y 5/2	6/2) NANNOFOSSIL CHALK WITH FORAMINIFERS. Foraminifers content is about 15% in each lithology. Minor amounts of feldspar and quartz also occur in the sediment.
	{	}	4		3		<pre>33 33 33 34 34 34 34 34 34 34 34 34 34 3</pre>			5Y 5/2	General Description: Sediments are slightly bioturbated.
{ } }			5	7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	4	Quaternary	,			5Y 4/3	
	}	{	6			Ø		ļ		5Y 5/1	
		}	7_	7 7 7 7 7 7	5		» » » » »			5Y 4/1	
	}		8				\$ \$ \$			5GY 4/2	
			9		7		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			5Y 6/2	
1 1.5	0 10 0	10 2	10		СС				М	2.5Y 3/2	

			SIT	E 1012	HC	LE	B COR	E	10H		CORED 84.8 - 94.3 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 1.5	5 10 0	10 2	22		1 2 CC	Quaternary	3	- 00	S S M	5Y 4/2 5Y 3/2 5Y 4/2 10Y 5/2	CLAY WITH SILT and NANNOFOSSIL CHALK WITH FORAMINIFERS Major Lithologies: This core consists of dark olive gray to olive (5Y 3/2 to 5Y 4/3) CLAY WITH SILT and pale olive (10Y 5/2) NANNOFOSSIL CHALK WITH FORAMINIFERS containing about 15% foraminifers. General Description: The sediment is slightly bioturbated and shows reduction haloes in Section 1, 100 cm, through CC.

			SIT	E 1012	НО	LE	B COR		11H		CORED 94.3 - 103.8 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					5Y 3/2	NANNOFOSSIL CHALK WITH FORAMINIFERS and CLAY WITH SILT
\ \ \ \			2		2					5Y 5/2	Major Lithologies: This core consists of dark olive gray to olive (5Y 3/2) CLAY WITH SILT and light olive gray to olive gray (5Y 6/2 to 5Y 4/2) NANNOFOSSIL CHALK WITH FORAMINIFERS containing about 15% foraminifers. The silt fraction is composed of feldspar, quartz, and
			3_					++++	S	5Y 4/2	glass. General Description: Note: Sections 2 and 3 may have been disturbed by sediment flow during coring. Gas expansion voids occur in
7			4		3	Quaternary		HHHHH /////	S	5Y 5/2 To 5Y 6/2	Section 6, 44-60 cm, and 115-124 cm.
J. J			6		5	Qu		_\\\\\\\\\\\\\\\			
			8		6			++++++	S	5Y 3/2	
0 1	0 10 0	10 10 2	9 -		7 CC				М		

			SIT	E 1012		LE	B COR	E	12H		CORED 103.8 - 113.3 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
		}	-	0000	1		}			5Y 4/2	NANNOFOSSIL CHALK WITH CLAY, CLAY WITH SILT and CLAY CARBONATE MIXED SEDIMENT
			-				}			5Y 3/2	Major Lithologies: This core consists of gradual alternations between very dark grayish brown (2.5Y 3/2) CLAY WITH SILT, dark grayish brown (2.5Y 4/2) CLAY
}	3	{	2		2	nary	} }		S	5Y 5/2	CARBONATE MIXED SEDIMENT, and olive gray (5Y 5/2 to 5Y 4/2) NANNOFOSSIL CHALK WITH CLAY. Color changes are gradational.
	}		3_			Quaternary	}			5Y 4/2	Minor Lithology: A small pod of ARAGONITE(?) occurs in Section 5, 1 cm.
}		{	4		3		}			2.5Y 3/2 5Y 4/2	General Description: The sediment is slightly bioturbated.
}	\\	}	5				3			2.5Y	Note: A gas expansion void occurs in Section 7, 60-67 cm.
}		}			4				S	3/2	
	}		6 <u>-</u>				} }} }		S	5Y 4/2	
{	\\	}	7		5	Pliocene			S	2.5Y 4/2	
}			8 - - - -		6	late Plio	}			5Y 4/2	
	3		9				}				
1		\$	10	0-0-0-0 	7			111111		5Y 4/3	
0 1	5 10 0	10 2	20						M		

			SIT	E 1012	НС	LE	B COR				CORED 113.3 - 122.8 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
3	}	\$	-				3			5Y 4/2	CLAY WITH CARBONATE and NANNOFOSSIL CHALK WITH CLAY
		}	1		1		3			2.5Y 3/2	Major Lithologies: This core consists of gradual
	}	}	-							5Y 4/2	alternations between very dark grayish brown (2.5Y 3/2) CLAY WITH
		}	-	0-0			3		S	2.5Y 3/2	CARBONATE and dark brown to light
\{		}	2_				5		3	5Y	olive gray (2.5Y 4/2 to 5Y 6/2) NANNOFOSSIL CHALK WITH CLAY. Carbonate grains are mostly foraminifer
}		{	-		2				S	5/2 5Y	fragments. Clay content varies from 15%-60%.
	{	{	3							4/2 10Y	General Description:
		3					>>			4/1	The sediments are slightly bioturbated.
}	}		-		3		}} }}			5Y 5/1	
}	\{	}	4_	111111			33			5Y 6/2	
			-			ene				2.5Y	
{	\ \^{\} \	}	5	0-0 0-0 0-0		Pliocene	3		S	4/2	
{	}	}	-	0-0	4	late F	}		3	2.5Y 5/2	
}		}		0-0 0-0 0-0			,			2.5Y	
		5	6_				,			3/2	
}		{	-				3			10Y	
{	5		7 -		5		>			4/2	
}	$ \hspace{.1cm} \rangle \hspace{.1cm} $	}	- - -				}} }}			2.5Y 5/2	
{		}	-								
		}	8		6					5Y 4/3	
	}	{	=		0		3				
}		?	9				3			10Y 5/2	
{)	{	-	0-0	7		,			- F\/	
		`			CC				М	5Y 4/3	
1 1.5 (0 10 0) 10 2	<u></u>	G-01		_		_			

			SIT	E 1012		<u>LE</u>	B COR		14H		CORED 122.8 - 132.3 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
	<i>\</i>	}	-							5Y 5/2	CLAY WITH CARBONATE and NANNOFOSSIL CHALK WITH CLAY
	}		1		1		}		S	5Y 3/2	Major Lithologies: This core consists of dark olive gray to olive gray (5Y 3/2 to 5Y 4/2) CLAY WITH CARBONATE alternating with grayish olive (10Y 4/2) NANNOFOSSIL CHALK WITH CLAY.
		}	-		2					5Y 4/2	Minor Lithologies: Burrows filled with pyrite-enriched
		}	3				}	/		5Y 5/3	sediments occur in Section 4. General Description: The sediments are slightly to moderately bioturbated.
{		>	4 -	- j 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	3		}			5Y 3/2	
			5 6		4	late Pliocene) } } } }		S	5Y 5/3	
	$ \langle $	>					3		S	5Y 3/2	
	}	}	8		6		3			10Y 4/2	
	}	{	9	G G G			}			5Y 4/3	
		~~~		G G	7		3	_		2.5Y 4/2	
			10		CC		>		М	5Y 4/2	

CLAY WITH NANNOFOSSILS AND FORAMINIFERS  Major Lithology: This core consists of olive gray to dark olive gray (5Y 4/2 to 5Y 3/2) CLAY WITH NANNOFOSSILS AND FORAMINIFERS.  General Description:				SIT	ΓΕ 1012			C COR				CORED 0.0 - 6.6 mbsf
FORAMINIFERS  Major Lithology: This core consists of olive gray to dark olive gray (5Y 4/2 to 5Y 3/2) CLAY WITH NANNOFOSSILS AND FORAMINIFERS.  General Description: The sediments are homogenous or very slightly bioturbated.  5Y 4/2 To 5Y 3/2  4 T 4 T 4 T 4 T 5 T 5 T 5 T 5 T 5 T 5 T		density	suscept.	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1.2 1.4 0 20 40	1.	2 1.4		5 - 6		3	Quaternary		0	М	4/2 To 5Y	FORAMINIFERS  Major Lithology: This core consists of olive gray to dark olive gray (5Y 4/2 to 5Y 3/2) CLAY WITH NANNOFOSSILS AND FORAMINIFERS.  General Description: The sediments are homogenous or very

		SIT	E 1012 I		LE	C COR				CORED 6.6 - 16.1 mbsf
GRAPE density (g/cm ³ )	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		2		2	rnary	A•	W .		2.5Y 3/2 To 2.5Y 4/2	CLAYEY NANNOFOSSIL MIXED SEDIMENT and SILTY CLAY WITH CARBONATES  Major Lithologies: This core consists of gradational changes between very dark grayish brown to very dark brown (2.5Y 3/2 to 2.5Y 4/2) CLAYEY NANNOFOSSIL MIXED SEDIMENT and pale olive to grayish olive (10Y 6/2 to 10Y 4/2) SILTY CLAY WITH CARBONATES. Sponge spicules are disseminated throughout the core.  General Description: The sediment is slightly bioturbated.
}	\ \{\{\}	5		4	Quaternary	}			10Y 6/2	
		6				<pre>33 3 3 3</pre>			5Y 3/2	
	}	<u>7</u>		5		33			10Y 4/2	
1.4 1.6	5 10	9 -		7 CC		}		M	5Y 4/2	

		SIT	E 1012		LE	C COR				CORED 16.1 - 25.6 mbsf
GRAPE density (g/cm ³ )	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1		3	MM		10Y 4/1 To 10Y 3/1	SILTY CLAY WITH FORAMINIFERS and NANNOFOSSIL OOZE WITH CLAY  Major Lithologies: This core consists of olive gray to dark olive gray (5Y 5/2 to 5Y 3/2) SILTY CLAY WITH FORAMINIFERS
		2	7	2		33			5Y 5/2	gradationally alternating with pale olive to grayish olive (10Y 4/1 to 10Y 3/1) NANNOFOSSIL OOZE WITH CLAY. Sponge spicules are abundant and disseminated throughout the sediment. General Description:
		4_		3		} }}			5Y 3/2	The sediment is slightly to moderately bioturbated.
		5		4	Quaternary	<pre>3 3 3 3</pre>			10Y 5/2	
		- - - - - - - - - - - - - - - - - - -		5		} }  }			10Y 4/1 To 10Y 3/1	
		8 8 - - - - - - - - - - - - - - - -		6		} }}			5Y 3/2	
	ĺ	-		CC				М	5Y 5/3	
1.4 1.6	0 10 2	20								

			SIT	E 1012	HC	LE	C COR	E	4H		CORED 25.6 - 35.1 mbsf
GRAP density (g/cm ³	SI	agnetic uscept. 0-6 SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
					1		***	<b>≫</b>		10Y 4/2	NANNOFOSSIL OOZE WITH CLAY and SILTY CLAY WITH FORAMINIFERS  Major Lithologies: This core consists of gradual alternations between dark olive gray to dark gray (5Y 3/2 to 5Y 5/3) SILTY
· · · · · · · · · · · · · · · · · · ·	? } }		3		2		} }}			5Y 3/2	CLAY WITH FORAMINIFERS and grayish olive to olive (10Y 4/2) NANNOFOSSIL OOZE WITH CLAY. Sponge spicules are abundantly disseminated throughout the core.  General Description: The sediments are slightly to moderately bioturbated. Odors emitted
		}	-		3						from freshly split cores changes from sulfurous near the top (Section 1) to
<		}	4				3				petroliferous below.
(	\ \ \ \	}	1		4	Quaternary	}			5Y 5/3	
			7 8		5		} } }			10Y 4/2	
3		}	1	7	7		33 33 3			5Y	
1.25 1.5	0	10 2	10	;	СС		}		М	4/1	
1.25 1.5	U	10 2	0.								

		SIT	E 1012	HC	LE	C COR		5H		CORED 35.1 - 44.6 mbsf
GRAPE density (g/cm ³ )	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1.4 1.6	0 10 2	2		1 2 3 3 4 4 5 5 6 6 7 CCC	Quaternary	3 3 3		М	5Y 4/3 10Y 5/2 To 10Y 6/2 5Y 4/3 5Y 6/2 5Y 4/3 5Y 6/2 5Y 4/3	CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and NANNOFOSSIL CLAY WITH SILT  Major Lithologies: This core consists of pale olive to grayish olive (10Y 6/2 to 5Y 5/2) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and olive (5Y 4/3) NANNOFOSSIL CLAY WITH SILT. Color changes are gradational. Sponge spicules are disseminated throughout the core.  General Description: The sediment is slightly bioturbated.

SITE 1012

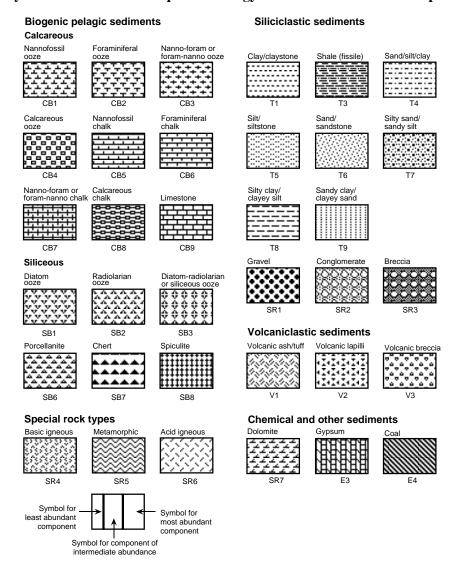
		SIT	E 1012	HC	LE	C COR				CORED 44.6 - 54.1 mbsf
GRAPE density (g/cm ³ )	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	0 10	1 2 3 4 5 7 7		3 3 4 4 5 5 6 6 CCC	Quaternary	}		М	5Y 4/2  10Y 4/2  5Y 3/2  5Y 4/2  5Y 4/2  5Y 4/2  5Y 4/2  5Y 4/1	CLAY WITH FORAMINIFERS and FORAMINIFER NANNOFOSSIL OOZE  Major Lithologies: This core consists of gradational alternations between dark olive gray (5Y 5/2) CLAY WITH FORAMINIFERS and FORAMINIFER NANNOFOSSIL OOZE.  Minor Lithologies: A light olive gray (5Y 6/4) to dark greenish gray (5G 4/1) VITRIC ASH occurs in Section 7. A sharp-based, graded QUARTZ FORAMINIFER SAND occurs at the base of Section 3.  General Description: The core is moderately bioturbated. It contains scattered sponge spicule aggregates and emits a petroliferous odor.

		SI	ΓΕ 1012		LE	C COR				CORED 54.1 - 63.6 mbsf
GRAPE density (g/cm ³ )	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								2.5Y 3/2	SILTY CLAY and FORAMINIFER NANNOFOSSIL OOZE
		1		1		~~ ~~~~~~~	www www		5Y 5/2	Major Lithologies: This core consists of gradational alternations between very dark grayish brown (2.5Y 3/2) to olive gray (2.5Y 4/2) SILTY CLAY and olive gray (5Y 5/2) to light olive gray (5Y 6/2) FORAMINIFER NANNOFOSSIL OOZE.
}		3				3			5Y 4/2	General Description: This core is slightly bioturbated. The core suffers considerable cracking and
				3					2.5Y 3/2	disturbance.
		4			ıry	3 3 3 3 3			2.5Y 4/2	
}		5		4	Quaternary	3			2.5Y 3/2	
		6				3			5Y 5/2	
{				5		33 33 33			2.5Y 4/2	
<b> </b>		7				3			5Y 6/2	
		8				3			10Y 4/1	
	}	-		6		3			5Y 5/2	
}		9		7		* * * * * *			10Y 4/1	
	}	10		CC		33	>	М	2.5Y 3/2	
1 1.5	0 10 2	20								

		SI	ΓΕ 1012		DLE	C COF				CORED 63.6 - 73.1 mbsf
GRAPE density (g/cm ³ )	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1		>	-wwwww		2.5Y 3/2	SILTY CLAY, NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL OOZE Major Lithologies:
{		-				}			5Y 4/1	This core consists of meter-scale alternations between very dark gray (5Y 3/1) SILTY CLAY, dark gray (5Y 4/1) to
		3		2		<b>&gt;</b>	WWW		5Y 3/1	dark grayish brown (2.5Y 4/2) NANNOFOSSIL OOZE WITH CLAY, and gray (5Y 6/1) to light gray (5Y 7/2) NANNOFOSSIL OOZE.  General Description: The sediments are moderately bioturbated and contain Planolites (?)
		4		3		3 3 3 3			5Y 6/2	trace fossils in Section 4.
					_	}} }}	İ		5GY 6/1	
{	\	5			Quaternary	** ** ** ** ** **			2.5Y 3/2	
	<b>\</b>			4	ğ	}} }} }}	İ		5Y 4/1	
{		6				<i>"</i>			2.5Y 4/2 5Y	
<b> </b>		7		5		}			3/2 5Y 7/2	
}		8		6		}} }}			5Y 4/2	
		9				}} }} }} }	WW		5Y 6/1	
	7			7 CC		3 3 3	WWWWWW	М	2.5Y 3/2	
0 1 (	0 10 2	0			_	<u> </u>	ш	IVI		1

		SIT	E 1012	НС	LE	C COR	Ε :			CORED 73.1 - 82.6 mbsf
GRAPE density (g/cm ³ )	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
density	suscept.			_			_	Sample HG	2.5Y 3/2 2.5Y 4/2 5GY 6/1 2.5Y 4/2 5Y 4/2 5GY 5/2 5Y 4/2 5GY 5/1	
}		10		7 CC		3		М	2.5Y	
0 1	0 10 2	20		μU			Ш	ivi	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	ی	Flaser bedding	(c)	Carbonate nodule/concretion
δ	Fish debris	Δ	Graded interval, normal		
		<	Veins	(Ch)	Chert nodule/concretion
		R	Water escape structure	A∙	Ash/pumice pods
		$\bigcirc$	Scour	- <b>A</b>	Ashlayer