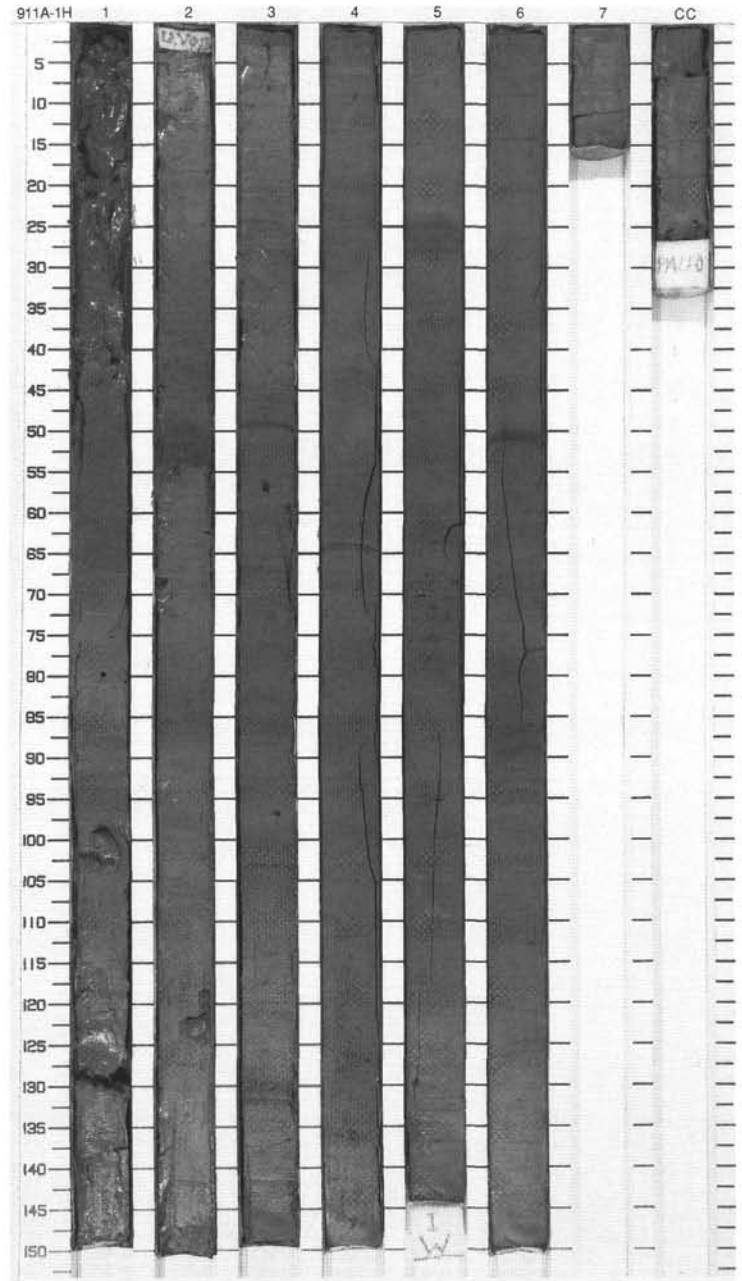


SITE 911 HOLE A CORE 1H

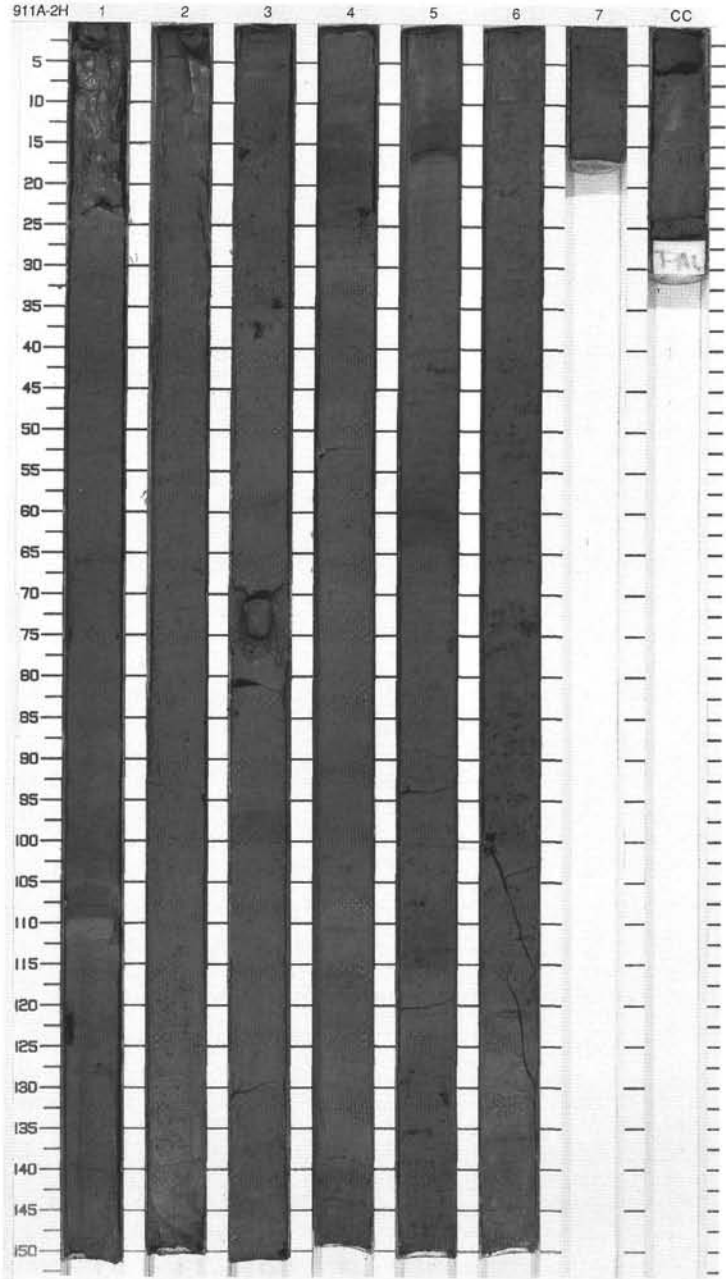
CORED 0.0 - 9.5 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
0.0		1		W	P	10Y 4/1	CLAY Major Lithology: Slightly bioturbated CLAY, strong color alternations of very dark gray (10Y 4/1), olive gray (5Y 4/2), very dark gray (10YR 3/1) and olive (5Y 4/3). Several layers (1.0 cm) and burrow fillings are slightly coarser. Disseminated sulfide is common.
1.0		1			S P	5Y 4/2 To 5Y 4/2	
2.0		2			S P	10YR 3/1 To 5Y 4/1	Minor Lithologies: CARBONATE-BEARING CLAY, dark gray (5Y 4/1), is present in Section 2 and Section 5. Inorganic calcite particles and nannofossils are present.
3.0		3			S P	10Y 5/1 To 5Y 3/2	
4.0		4			P		
5.0		4			S P		
6.0		5			P		
7.0		5			S P	5Y 4/2 To 5Y 3/1	
8.0		6			S P		
9.0		7			P		
9.5		CC			M		



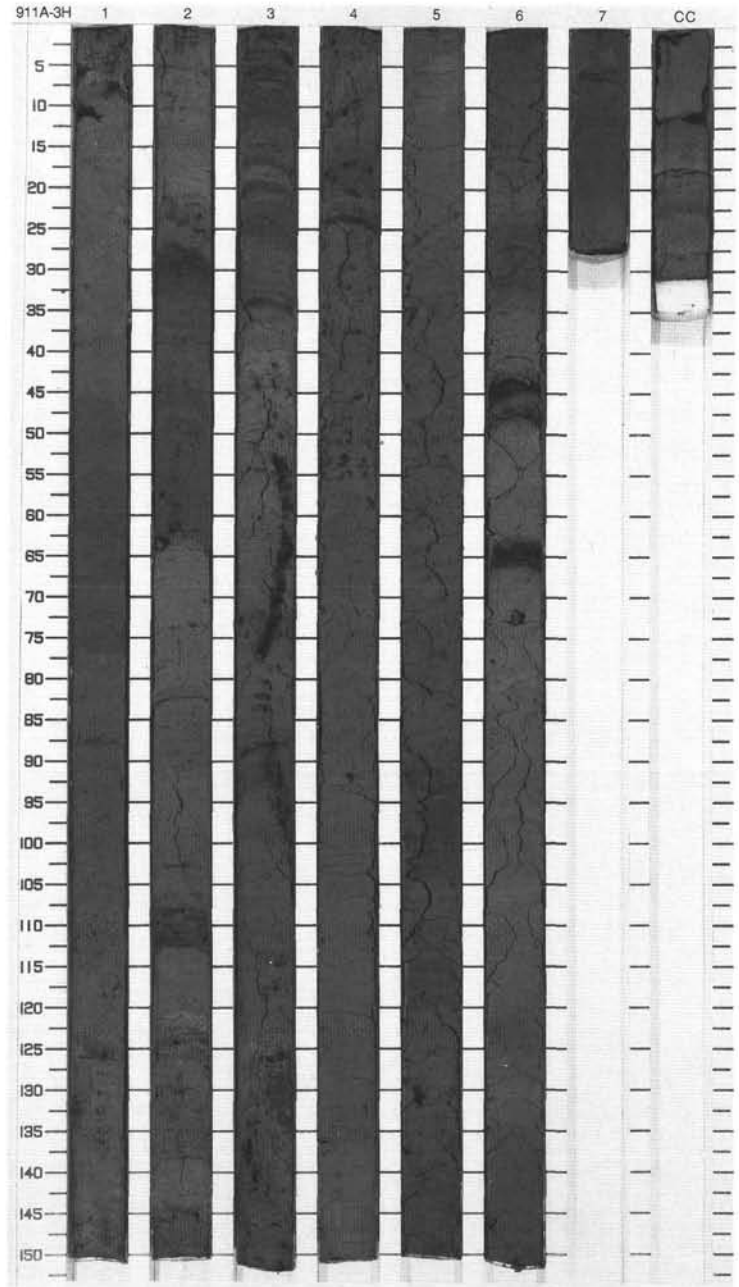
SITE 911 HOLE A CORE 2H CORED 9.5 - 19.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		[Symbol]	○	S P	5Y 3/1 To 5Y 4/1	<p>SILTY CLAY and CLAY</p> <p>Major Lithologies: SILTY CLAY and CLAY varies between very dark gray (5Y 3/1) and dark gray (5Y 4/1). Slight bioturbation present in Sections 1, 2, 6, and 7; moderate bioturbation in Sections 3 to 5. Color bands are typical in sections with moderate bioturbation. Coarser layers (5 cm) have gradational contacts.</p> <p>Minor Lithology: CARBONATE-BEARING SILTY MUD, very dark gray (5Y 3/1), moderately bioturbated, contains high amounts of inorganic calcite particles in Section 3, 149-150 cm and Section 4, 0-2 cm.</p> <p>General Description: Dropstones: Section 3, 15 cm, Ø 1.0 cm, coal fragment; 71 cm, Ø 4.5 cm, plutonic.</p>
2	[Symbol]	2		[Symbol]		P	5Y 3/1	
3	[Symbol]	3		[Symbol]	W	P		
4	[Symbol]	3		[Symbol]		P		
5	[Symbol]	4	Quaternary	[Symbol]		P	5Y 3/1 To 5Y 4/1	
6	[Symbol]	4		[Symbol]		P		
7	[Symbol]	5		[Symbol]		S		
8	[Symbol]	6		[Symbol]		S P		
9	[Symbol]	7		[Symbol]		P	5Y 4/1	
	[Symbol]	CC		[Symbol]		M		



SITE 911 HOLE A CORE 3H CORED 19.0 - 28.5 mbsf

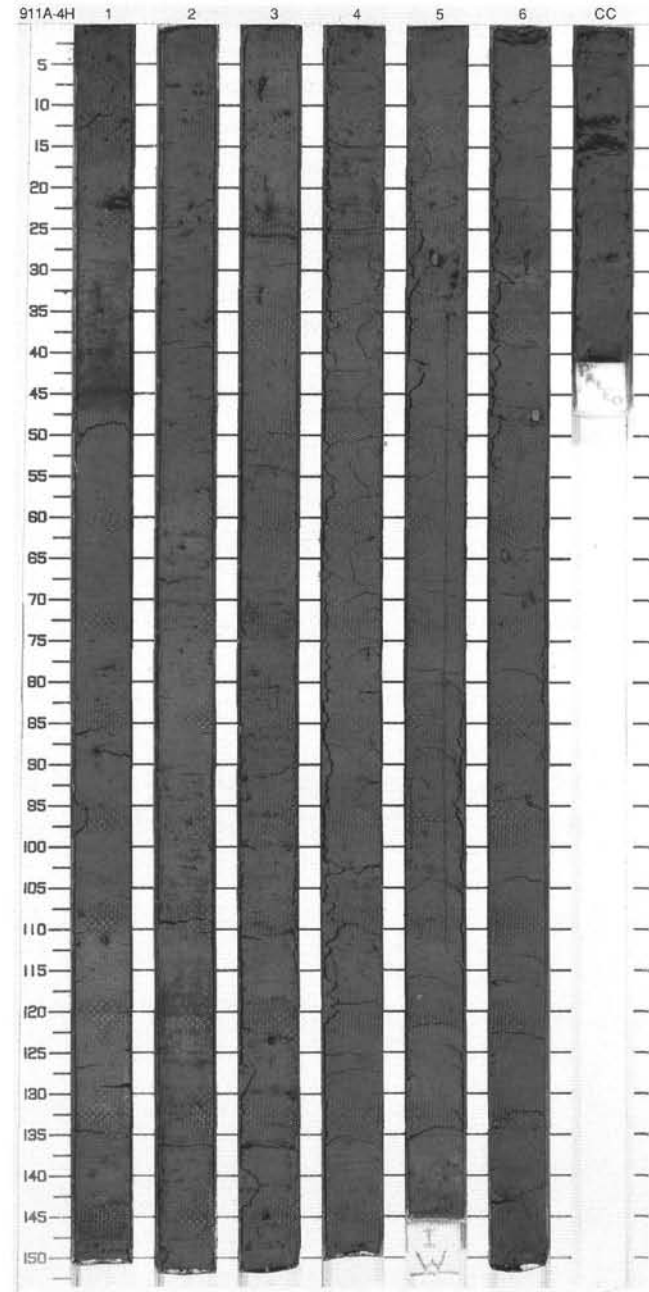
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				P		SILTY CLAY and CLAYEY MUD
1		1				S	2.5Y 3/1 To 5Y 4/2	Major Lithologies: SILTY CLAY varies from black (2.5Y 2/0, 5Y 2.5/1) to dark greenish gray (5GY 4/1) through dark olive gray and very dark gray (5Y 3/2, 5Y 3/1). It is characterized by black patches of unstable sulfides, mm to cm size, which highlight bioturbation. Sand pockets are rare. Most of the clay clasts appear to be indurated burrow fills. CLAYEY MUD, commonly dark olive gray (5Y 3/2), occurs as structureless layers and graded beds with sharp contacts. Discontinuous, sandy and clayey laminae are interbedded and have gradational upper contacts. The coarse fraction is sand sized, except for few dropstones and clay clasts. SILTY CLAY and CLAYEY MUD occur in layers of variable thickness from a few cm to 100 cm.
2		2				S	5Y 3/2	
2		2				P	5Y 3/1	Minor Lithology: CLAYEY SILT, black (2.5Y 2.0), occurs as two discrete 2-cm-thick layers in Section 6, 42-50 cm. They show flaser-like to cross-stratified laminae. The upper layer has a sharp top contact while the lower shows gradational contacts.
3		3				P	5Y 3/2	
3		3				P	5Y 3/1 To 5GY 4/1	General Description: Dropstone: Section 2, 62 cm, Ø 1.2 cm, sandstone.
4		4				P	5Y 3/1	
5		4	Quaternary			P	5Y 3/2	
6		5				P	5Y 3/1	
7		5				P	5Y 3/2	
8		6				P	5Y 3/1	
9		7				P	5Y 3/1	
		CC				M		



SITE 911 HOLE A CORE 4H

CORED 28.5 - 38.0 mbsf

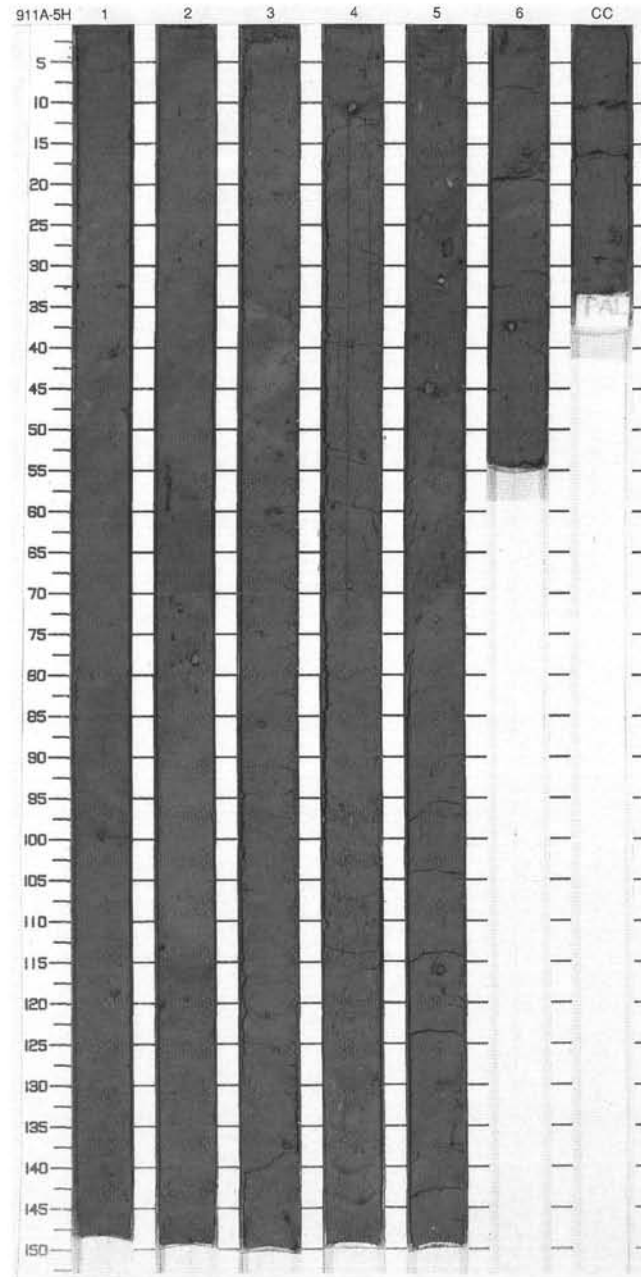
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		P		P	10YR 4/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, dark gray (10YR 4/1, 5Y 4/1) and very dark gray (5Y 3/1) with black (2.5Y N2/0) intervals (layers or patches), homogeneous to slightly bioturbated; in Section 2, 90–150 cm moderately bioturbated. Pockets filled with mm-sized iron-sulfide concretions throughout the core. Two larger concretions are found in Section 1, 21 cm (Ø 2.5 cm) and in Section 3, 9 cm (Ø 1.0 cm). Color banding is common until top of Section 6. Dominant colors are black (2.5Y N 2/0), dark olive gray (5Y 3/2) and dark reddish brown (5YR 3/2). Color banding seems unrelated to grain size. Pods of sand-sized quartz grains are present in Section 6. Coarse fraction includes quartz, feldspar, inorganic calcite, opaques, and accessory minerals.</p> <p>Minor Lithology: CLAY, dark gray (5Y 4/1), homogeneous, is present in Section 2, 60–90 cm and Section 3, 26–40 cm. High amounts of opaques and accessory minerals in the coarse fraction.</p> <p>General Description: Shell fragments: Section 6, 52 cm, mollusk fragments. Section 6, 122 cm, pteropod fragment?</p> <p>Dropstones: Section 1, 114 cm, Ø 1.0 cm, rock fragment. Section 5, 30 cm, Ø 1.4 cm, sandstone. Section 6, 30 cm, Ø 1.0 cm, sandstone; 48 cm, Ø 1.5 cm, sandstone.</p>
				P		S P	5Y 4/1	
				P		S P	10YR 4/1	
2		2		S		P	5Y 4/1	
				P		P	5Y 4/1 To 2.5Y N2/0	
3		3		P		P	10YR 4/1	
				P		P	5Y 3/1	
4		4	Quaternary	P		P		
5		5		P		P		
6		6		P		P		
7		7		P		S	10YR 4/1	
				P		P		
				P		P _I		
8		8		P		P		
				P		S		
				P		P	5Y 3/1	
9		9		P		P		
				M		M		



SITE 911 HOLE A CORE 5H

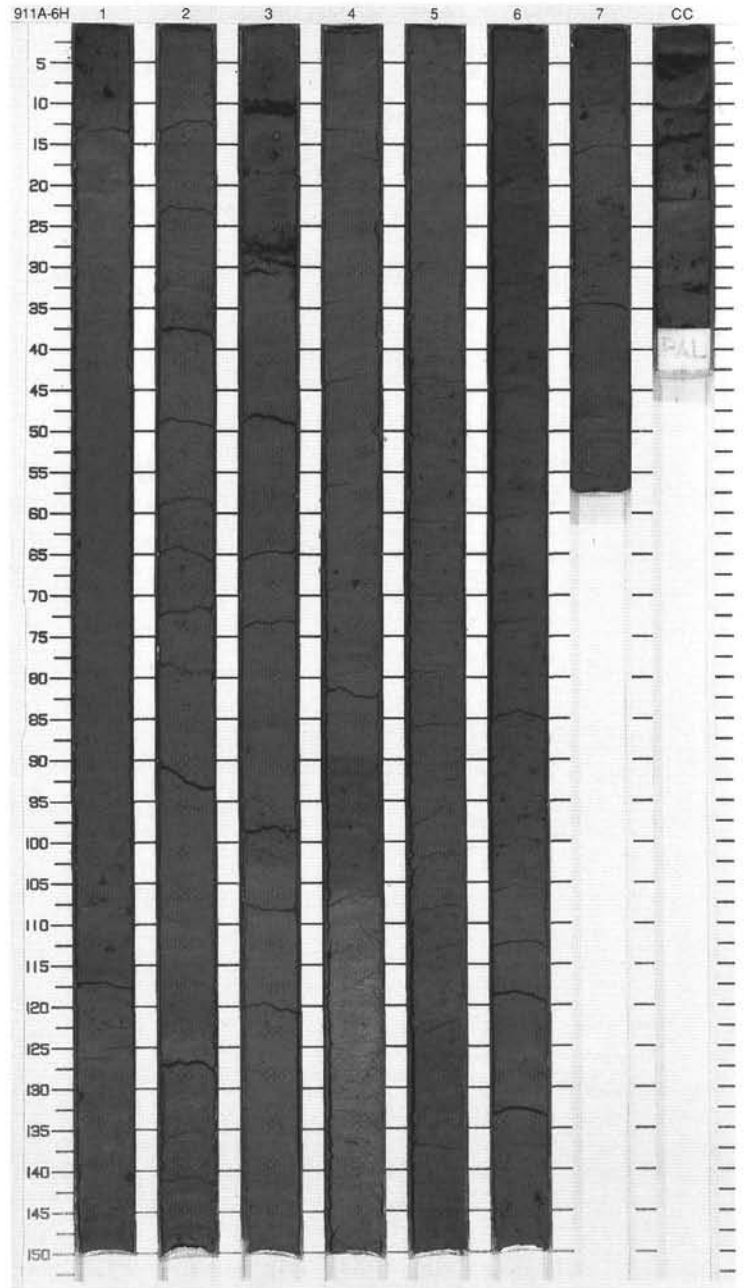
CORED 38.0 - 47.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Quaternary			P	5Y 3/1	<p>CLAYEY SILT and CLAYEY MUD</p> <p>Major Lithologies: CLAYEY SILT, very dark gray (5Y 3/1), homogeneous but may locally show faint color banding. Black pockets (<1 cm in size) of Fe-sulphide-rich sediment occur throughout the core. Mollusk fragments occur in Section 3. Silt- and sand-sized components comprising CLAYEY SILT include quartz (20%–30%), feldspar (15%–20%), and minor inorganic calcite and opaques. CLAYEY MUD, very dark gray (5Y 3/1), locally shows faint color banding. It occurs as cm-thick layers in Sections 1 and 2, and predominates Section 5 to CC. Major silt- and sand-sized grains include quartz (30%–35%) and feldspar (10%–20%).</p> <p>Minor Lithology: CARBONATE CLAY, dark gray (5Y 4/1), occurs as irregularly shaped pockets, cm scale in size, which are more indurated than the adjacent sediment. It occurs in Section 1, 40–50 cm; Section 2, 33 cm; Section 3, 0–4 and 33–53 cm.</p> <p>General Description: Dropstones: Section 2, 78 cm, Ø 1 cm, sandstone. Section 4, 10 cm, Ø 1.4 cm, shale with dolomitic coating. Section 5, 44 cm, Ø 1.5 cm, shale; 116 cm, Ø 1 cm, shale. Section 6, 37 cm, Ø 1 cm, shale.</p>
2		2		S				
3		3		P				
4		4		P				
5		5		S				
6		6		P				
7		7		P				
8		8		P				
		CC				M		



SITE 911 HOLE A CORE 6H CORED 47.5 - 57.0 mbsf

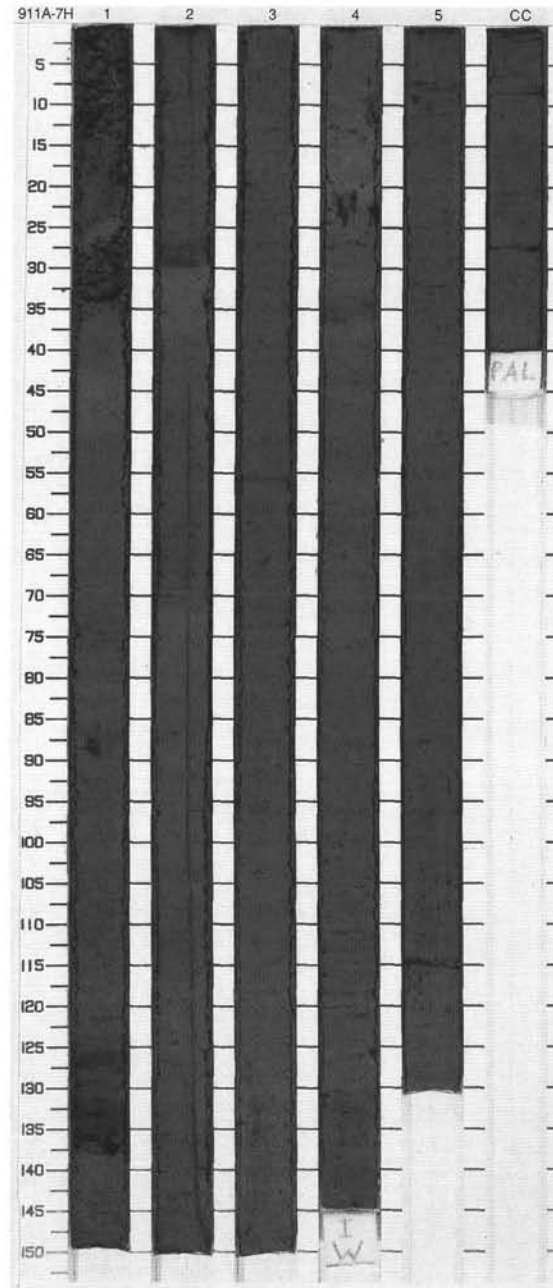
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	↑ c	[Symbol]		P	5Y 3/1 To 5Y 3/2	<p>SILTY CLAY and CLAYEY MUD</p> <p>Major Lithologies: SILTY CLAY, dark olive gray (5Y 3/2), very dark gray (5Y 3/1), or dark gray (5Y 4/1), is structureless except for faint color banding and pervasive bioturbation outlined by dark pods or patches of monosulfides. Scattered coarse material is rare. CLAYEY MUD, very dark gray (5Y 3/1) to dark olive gray (5Y 3/2), occurs as structureless layers with scattered coarse grains up to granule-size, or as graded beds which are commonly siltier but contain few very coarse grains and show mm- to cm-scale discontinuous planar laminae. Shell fragments are associated with mud. Overall, massive clayey layers are overlain by laminated mud which grades into a silty clay with numerous specks of monosulfides and then into a homogeneous silty clay. Inorganic carbonate grains were found in both lithologies, but are up to 70% in the homogeneous silty clay in Section 1, 18 cm.</p>
2	[Symbol]	2	↑ c	[Symbol]		P	5Y 3/2	
3	[Symbol]	3	↑ c	[Symbol]		S P	5Y 3/2 To 5Y 3/1	
4	[Symbol]	4	↑ c	[Symbol]		P	5Y 3/1	
5	[Symbol]	5	↑ c	[Symbol]		P	5Y 3/2 To 5Y 3/1	
6	[Symbol]	6	↑ c	[Symbol]		S P	5Y 4/1 To 5Y 3/1	
7	[Symbol]	7	↑ c	[Symbol]		P		
8	[Symbol]	8		[Symbol]		P	5Y 3/1	
9	[Symbol]	9		[Symbol]		S P		
CC	[Symbol]	CC		[Symbol]		P		
						M		



SITE 911 HOLE A CORE 7H

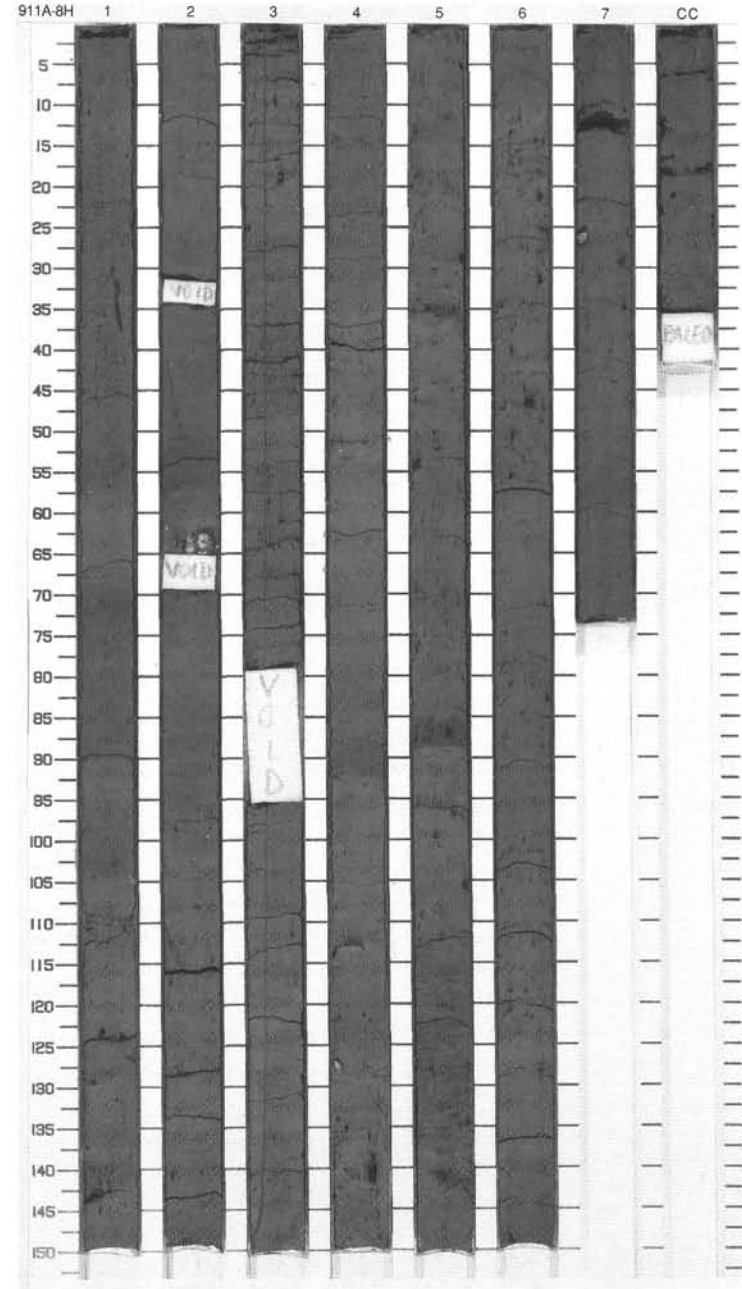
CORED 57.0 - 65.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Quaternary	[Wavy lines]	W	S P	5Y 3/1 To 5GY 4/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), homogeneous or color banded to mottled with dark greenish gray (5GY 4/1) and black (5Y 2.5/1). Black pockets, mm to cm scale in size, of Fe-sulphide-rich sediment occur throughout the core and may be burrows. Some pockets are indurated to varying degrees and could be considered concretions. In Section 1, the Fe-sulphide-rich sediment occurs in layers, 2-5 cm thick. Major silt- and sand-sized grains comprising SILTY CLAY are quartz (20%-25%) and feldspar (5%-10%).</p> <p>Minor Lithology: CLAYEY MUD, very dark gray (5Y 3/1), is homogeneous and occurs as discontinuous layers in Section 1, 86-126 cm and Section 4, 33-36 cm. Inorganic calcite, clay to sand sized, comprise up to 10%.</p> <p>General Description: Dropstones: Section 1, 87 cm, Ø 2 cm, sandstone. Section 4, 87 cm, Ø 2 cm, siltstone.</p>
2	[Hatched pattern]	2		[Wavy lines]		P		
3	[Hatched pattern]	3		[Wavy lines]		P		
4	[Hatched pattern]	4		[Wavy lines]		S P	5Y 3/1	
5	[Hatched pattern]	5		[Wavy lines]		P		
6	[Hatched pattern]	6		[Wavy lines]		P		
7	[Hatched pattern]	7		[Wavy lines]		P		
		CC				M		

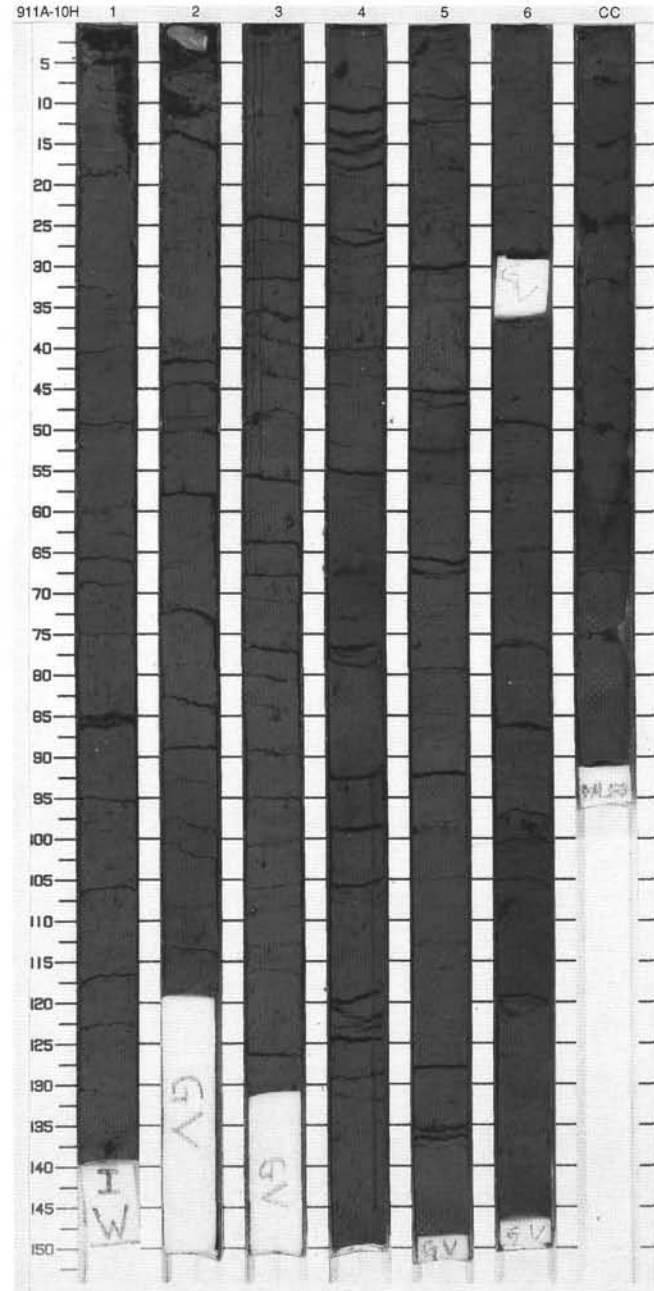


SITE 911 HOLE A CORE 8H CORED 65.2 - 74.7 mbsf

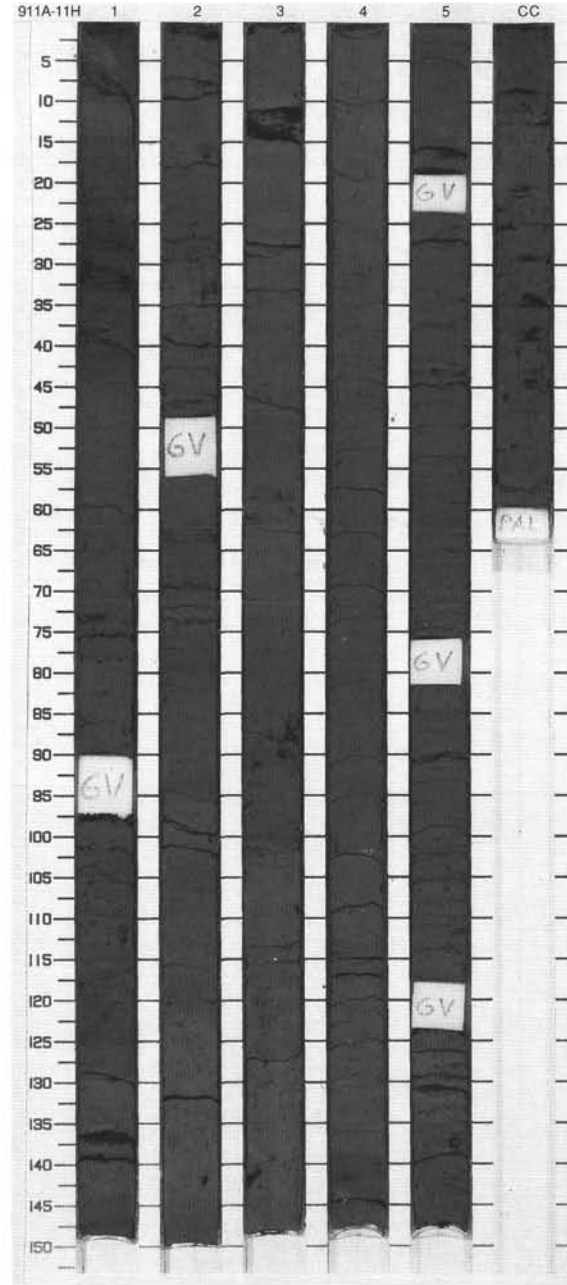
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				P	5Y 3/1	<p>CLAYEY SILT</p> <p>Major Lithology: CLAYEY SILT, very dark gray (5Y 3/1 or 10YR 3/1), homogeneous or slightly bioturbated, is present from top of core to Section 4, 35 cm and from Section 5, 44 cm to bottom of core. Intervals with faint color banding occur in Sections 1 and 3. Very dark gray (5Y 3/1), (10YR 3/1) and thin black (2YR N2.0) bands alternate throughout Section 3. Layers and up to cm-sized pockets of monosulfides are common in all sections. The coarse fraction consists almost entirely of quartz (40%–45% of total sediment).</p> <p>Minor Lithologies: Layers of CLAYEY and SILTY CARBONATE, dark gray (3Y 4/1), and CARBONATE-BEARING SILTY CLAY, very dark gray (5Y 3/1), alternate in the interval, Section 4, 35 cm to Section 5, 44 cm. The individual layers have thicknesses up to 35 cm. Carbonate grains are rounded, well sorted and about 4 μm in diameter.</p> <p>General Description: Monosulfide concretion: Section 4, 140 cm, Ø 1.0 cm.</p> <p>Dropstones: Section 2, 63 cm, Ø 3.0 cm, quartz. Section 4, 138 cm, Ø 1.2 cm, light gray sandstone.</p>
						P	5Y 3/1 To 10YR 3/1	
2	Void					P		
	Void					P		
3						S P	5Y 3/1	
4	Void					P	5Y 3/1 To 10YR 3/1	
5						P	5Y 3/1	
6						S P S S	5Y 3/1 To 5Y 4/1	
7						P	10YR 3/1	
8						P	5Y 3/1	
9						P		
10						P		
11						P		
12						P		
13						P		
14						P		
15						M		



SITE 911 HOLE A CORE 10H				CORED 84.2 - 93.7				
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		~	W	S P		<p>SILTY CLAY and CLAYEY MUD</p> <p>Major Lithologies: Homogeneous SILTY CLAY to CLAYEY MUD, very dark gray (5Y 3/1), are characterized by intense scatter of black (2.5Y N 2/0) Fe-sulfide patches (Ø 0.1–2 cm), which are unconsolidated and recognized as burrow fillings throughout the core. Moderate bioturbation is common.</p> <p>Minor Lithologies: Slightly coarser beds with gradational contacts are interbedded in Section 2, 29–39 cm; Section 4, 69–72 cm; Section 5, 20–27 cm and 51–56 cm; Section 6, 99–120 cm.</p> <p>General Description: Dropstones: Section 2, 0–2 cm, siltstone, Ø 6.5 cm.</p>
2	[Symbol]	2		~		S P		
3	[Symbol]	3		~		P		
4	[Symbol]	4		~		S P		
5	[Symbol]	5		~		P		
6	[Symbol]	6		~		S P		
7	[Symbol]	7		~		P		
8	[Symbol]	8		~		S P		
9	[Symbol]	9		~		P		
10	[Symbol]	CC		~		M		



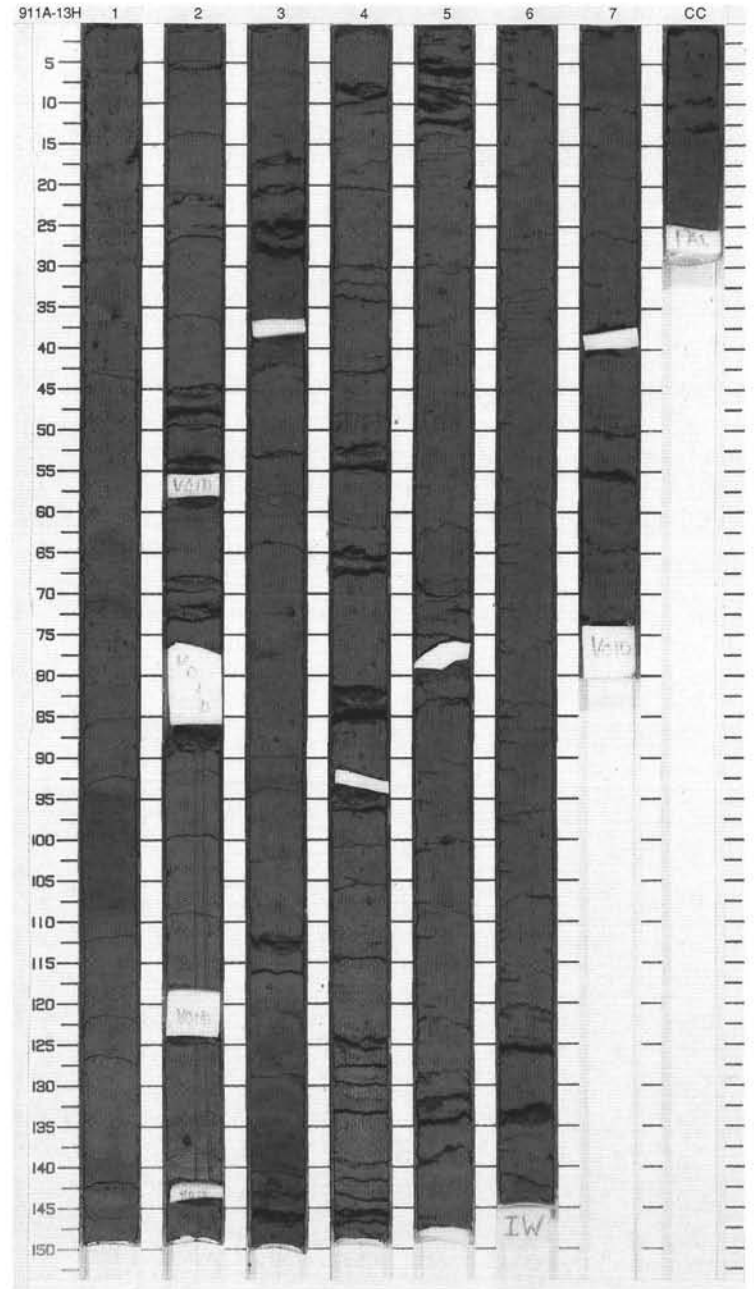
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	Void	1	Quaternary	⊕		P	5Y 3/1	CLAY and SILTY CLAY Major Lithologies: Dark gray (5Y 3/1) to very dark gray (5Y 4/1) CLAY and very dark gray (5Y 4/1) SILTY CLAY. CLAY is soft to moderately firm and SILTY CLAY is moderately firm. Quartz (10% to 20%) is second to clay as a mineral component. Feldspar and inorganic calcite are present in minor amounts.
2	Void	2	Quaternary	⊕		S P	5Y 4/1	
3		3	Quaternary	⊕		S	5Y 3/1	Minor Lithology: Friable pods of SILT occur throughout the core as burrow fills. SILT is characterized by high quartz (~50%) and feldspar (~20%) contents and the presence of rare sponge spicules.
4		4	Quaternary	⊕		S	5Y 4/1	General Description: CLAY and SILTY CLAY are interbedded throughout the core, with meter-scale massive CLAY beds interrupted by approximately 10-cm SILTY CLAY beds. Bioturbation is evident throughout, although diminished in Section 5 and CC. The sediment surface is speckled with black (2.5Y N 2/0) monosulfides.
5	Void	5	Quaternary	⊕		P	5Y 3/1 To 5Y 4/1	
6	Void			⊕		P	5Y 3/1	Dropstones: Section 1, 33 cm, Ø 1.0 cm, coal. Section 3, 88 cm, Ø 1.0 cm, siltstone; 90 cm, Ø 1.0 cm, siltstone. Section 5, 138 cm, Ø 1.0 cm, siltstone.
7	Void			⊕		P	5Y 3/1	
8		CC		⊕		M		



SITE 911 HOLE A CORE 13H

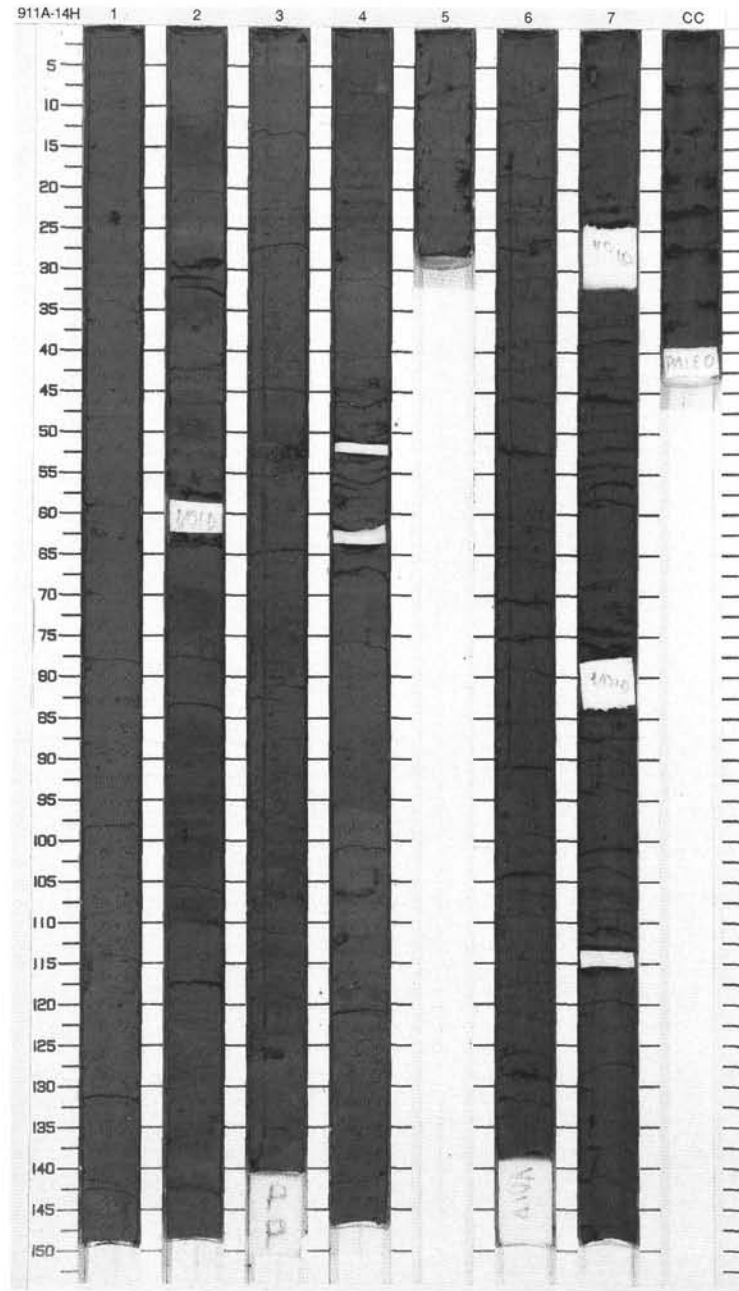
CORED 111.4 - 120.9 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1			S	5Y 3/1 To 5Y 2.5/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, very dark gray (5Y 3/1) to black (5Y 2.5/1), moderately bioturbated. Several slightly coarser layers (1.0 cm thick) occur in Sections 1, 3, and 5, and have gradational contacts. Burrow fills of black Fe sulfide are common.</p> <p>Minor Lithology: CARBONATE-BEARING SILTY CLAY in Section 3 is homogeneous, black (5Y 2.5/1) and moderately bioturbated. Contacts are gradational and carbonate grains appear to be detrital.</p>
2	Void	2			P		
3		3			S	5Y 3/1	
4		3			P		
5		4			P	5Y 3/1	
6		4			P		
7		5			P	5Y 3/1	
8		5			I		
9		6			P	5Y 3/1	
		6			P		
		7			S	5Y 3/1	
		7			P		
		CC			M		



SITE 911 HOLE A CORE 14H CORED 120.9 - 130.4 mbsf

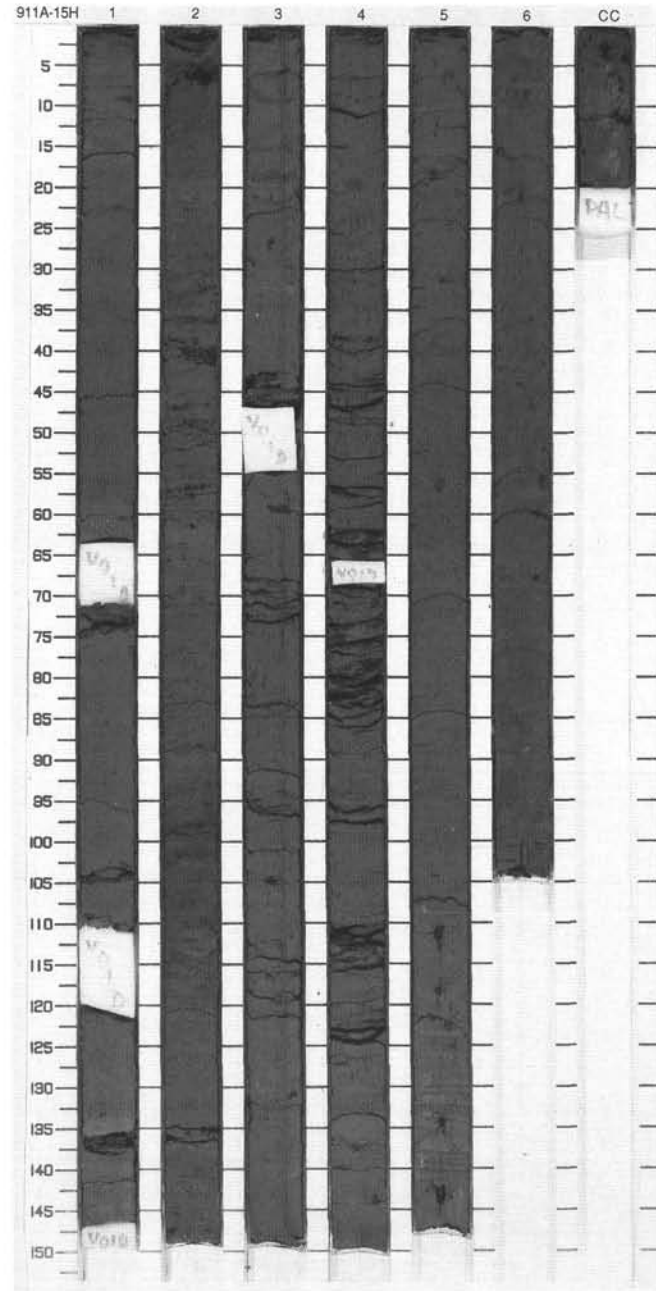
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Quaternary	P		P	5Y 3/1 To 5Y 2.5/1	<p>CLAYEY SILT and SILTY CLAY</p> <p>Major Lithologies: CLAYEY SILT and SILTY CLAY, very dark gray (5Y 3/1) to black (5Y 2.5/1), slightly to moderately bioturbated. Several coarser layers (1.0 cm thick) in Sections 1 to 4 have gradational contacts. Some burrows are filled with white silty material; black Fe-sulfide fillings are abundant. Fe-sulfide concretions are common.</p> <p>Minor Lithology: CARBONATE SILTY CLAY, very dark gray (5Y 3/1) is moderately bioturbated and has gradational contacts. White silty burrow fillings are common and calcite particles appear to be inorganic.</p> <p>General Description: Mollusk fragments: Section 3, 50 cm. Section 6, 108 cm, <i>Inoceramus</i> prisms. Echinoderms fragments: Section 4, 28 cm. Dropstone: Section 7, 5 cm, Ø 2 cm, siltstone.</p>
2	[Hatched pattern]	2		S		S		
3	[Hatched pattern]	3		S		S		
4	[Hatched pattern]	4		P		P		
5	[Hatched pattern]	5		W		W		
6	[Hatched pattern]	6		S		S		
7	[Hatched pattern]	7		P		P		
8	[Hatched pattern]	8		P		P		
9	[Hatched pattern]	9		P		P		
		CC				M		



SITE 911 HOLE A CORE 15H

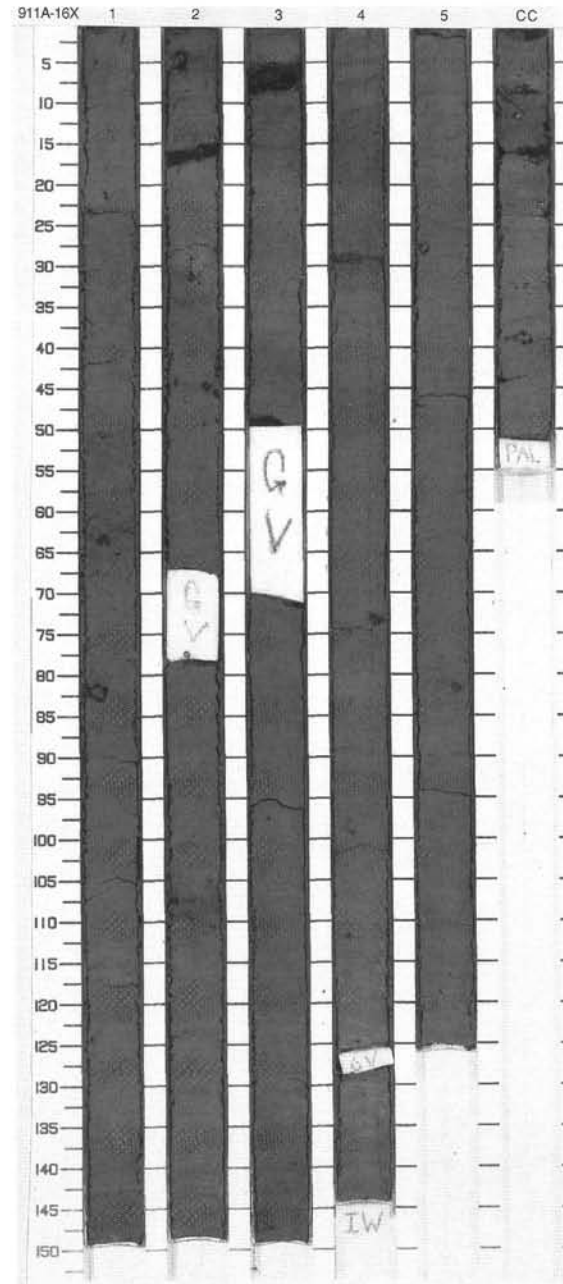
CORED 130.4 - 139.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Quaternary	~		P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Homogeneous SILTY CLAY, very dark gray to dark gray (5Y 3/1 to 5Y 4/1), with moderate bioturbation and intense scatter of coal-like black (2.5Y N 2/0) patches or clasts composed of Fe sulfide. These patches, up to 2.5 cm in diameter, are commonly unconsolidated and often recognized as burrow fills. They are rare in scattered areas in Section 2, 0-33 and 133-150 cm.</p>
2		2		~		S		
3		3		~		S		
4	VOID	4		~		P	5Y 4/1	
5		5		~		S		
6		6		~		P	5Y 3/1	
7		7	~		S			
8		8	~		P	5Y 3/1		
CC		CC			M			



SITE 911 HOLE A CORE 16X CORED 139.9 - 149.4 mbsf

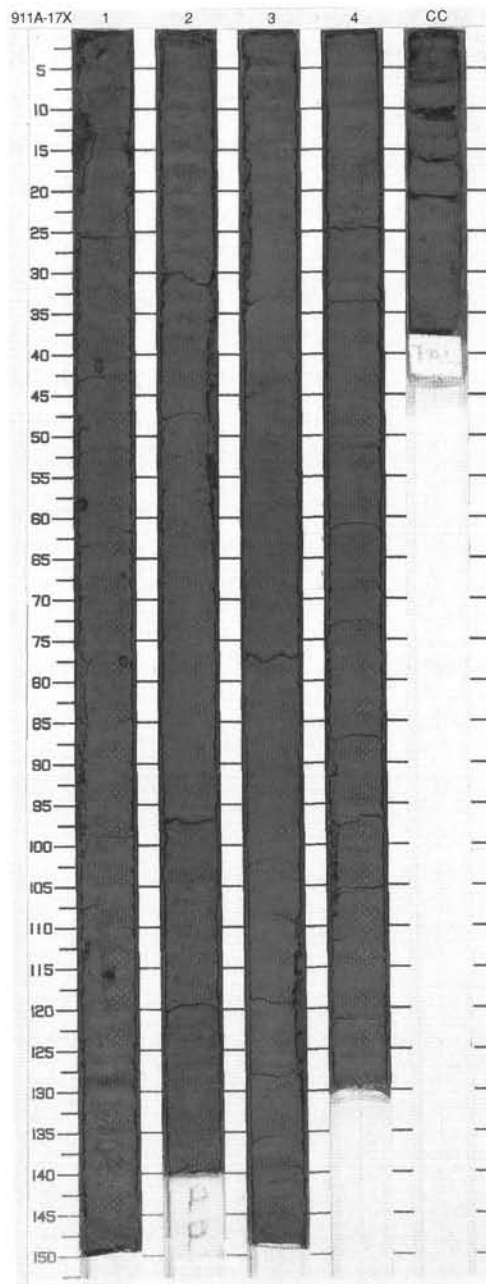
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	[Symbol]		P		<p>SILTY CLAY and CLAYEY MUD</p> <p>Major Lithologies: SILTY CLAY and CLAYEY MUD, very dark gray (5Y 3/1) with slight color variations toward brown (mud), gray or green (clay) shades. The two lithologies are interbedded with gradational contacts. They are thinner bedded in the lower section. The sediment is structureless except for bioturbation features outlined by a few brown or white silty burrow fills and by numerous dark sulfide patches (up to 20% of the surface) commonly developed around mm-sized black specks.</p> <p>General Description: The core is slightly disturbed by incipient drilling biscuits at regular intervals.</p> <p>Dropstone: Section 2, 10 cm, Ø 1 cm, silty shale.</p>
2	[Symbol]	2	[Symbol]		P		
3	[Symbol]	3	[Symbol]		P		
4	[Symbol]	3	[Symbol]		P		
5	[Symbol]	4	[Symbol]		S P		
6	[Symbol]	4	[Symbol]		S P I		
7	[Symbol]	5	[Symbol]		P		
8	[Symbol]	5	[Symbol]		P		
9	[Symbol]	5	[Symbol]		P		
10	[Symbol]	5	[Symbol]		P		
11	[Symbol]	CC	[Symbol]		M		



SITE 911 HOLE A CORE 17X

CORED 149.4 - 159.0 mbsf

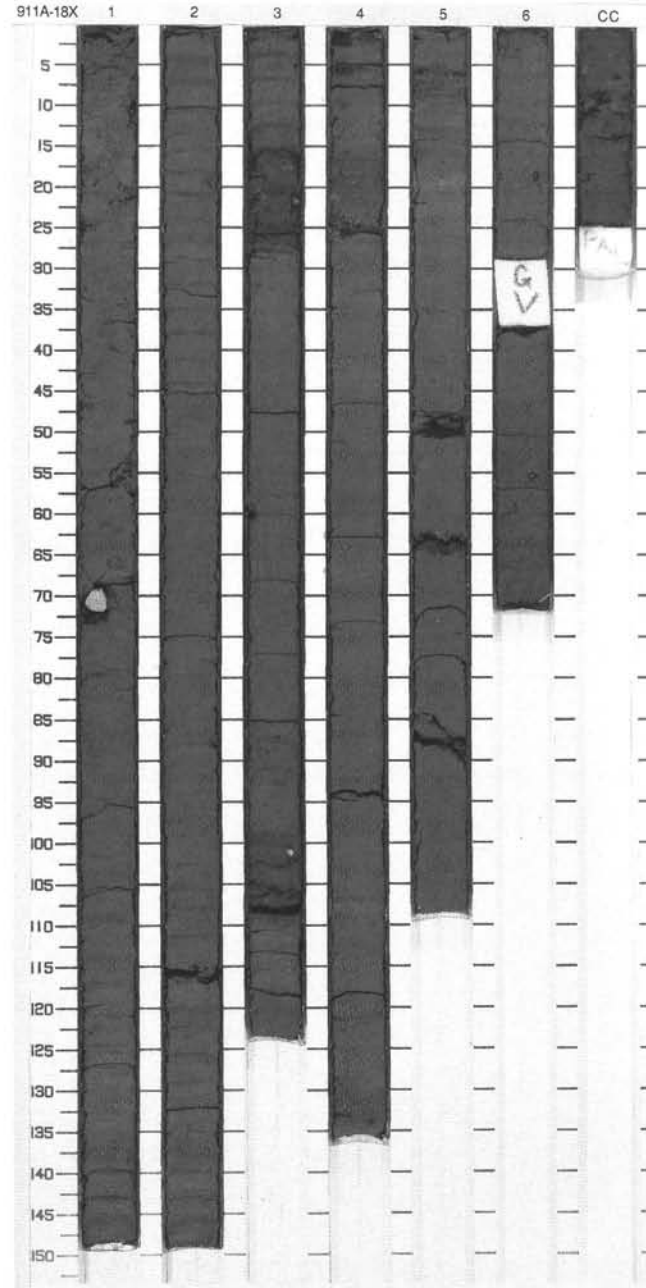
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1	Quaternary	[Wavy lines]		S	5Y 3/1	<p>CLAY, SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: CLAY, very dark gray (5Y 3/1) and slightly bioturbated. Black (2.5YR N2/0) patches up to cm size are common throughout. Coarse fraction includes feldspar, quartz, inorganic calcite, accessory minerals, and opaques. From Section 3, 21 cm to Section 4, 30 cm, layers of SILTY CLAY, very dark gray (10YR 3/1) alternate with CLAYEY SILT, very dark gray (5Y 3/1). Thickness of layers varies from 15 to 70 cm; CLAYEY SILT layers are thickest.</p> <p>Minor Lithology: CARBONATE CLAY, very dark gray (10YR 3/1), occurs as a single layer in Section 4, 31-50 cm.</p> <p>General Description: Four spherical pyrite concretions (Ø 1 cm) are present in Section 1; mm-sized pods of dark sediment (monosulfides) occur in Sections 1 and 2. Up to 2-cm-long sand-filled burrows are present in Section 4, 70-131 cm.</p>
2	[Dotted pattern]	2	Quaternary	[Wavy lines]		P	5Y 3/1	
3	[Dotted pattern]	3		[Wavy lines]		P		
4	[Dotted pattern]	4		[Wavy lines]		P		
5	[Dotted pattern]	4		[Wavy lines]		S		
6	[Dotted pattern]	4		[Wavy lines]		P		
	[Dotted pattern]	CC				M		



SITE 911 HOLE A CORE 18X

CORED 159.0 - 168.6 mbsf

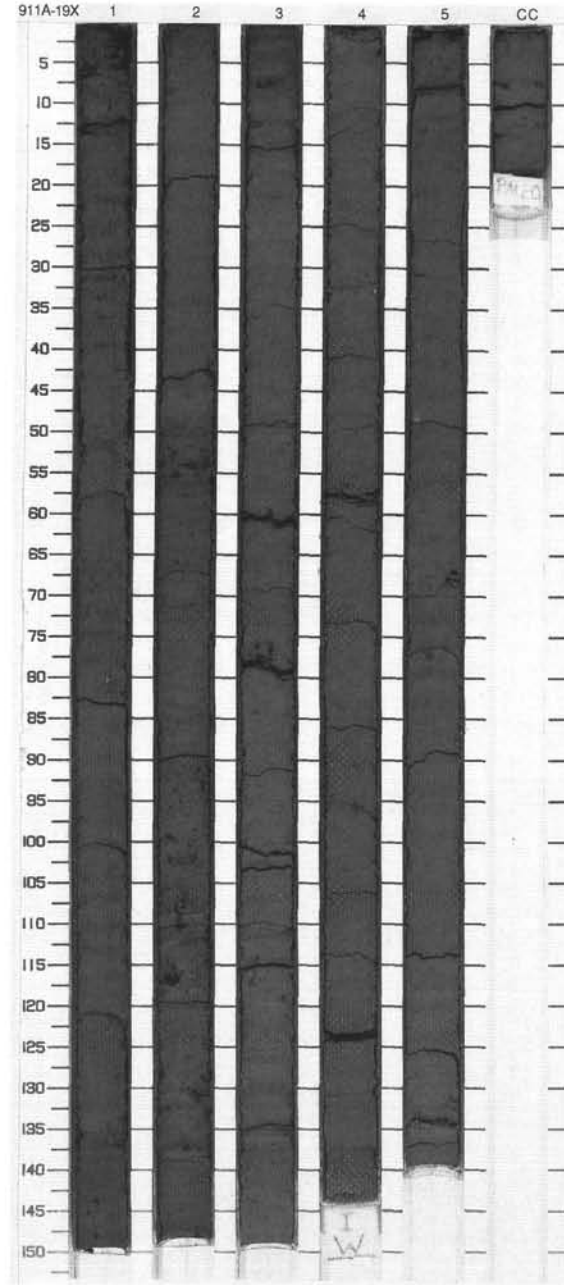
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		~	XXX	S		<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: SILTY CLAY and CLAYEY SILT, very dark gray (5Y 3/1) to black (5Y 2.5/1), structureless, slightly to moderately bioturbated, according to the number of sulfide patches making the sediment more or less dark. A lighter interval, Section 5, 20–40 cm, shows only light burrows.</p> <p>Minor Lithology: CLAYEY MUD, very dark gray (5Y 3/1) occurs as 3- to 15-cm-thick layers interbedded with the SILTY CLAY. They are characterized by rather sharp lower and upper contacts. Two of these layers include detrital carbonates, one showing a bioturbated carbonate clay at the basal contact, another with scattered carbonate grains up to granule size. These CLAYEY MUD layers occur in Section 3, 15–28, 88–93, and 98–110 cm, Section 4, 15–26 cm, Section 5, 13–20 cm.</p> <p>General Description: Dropstone : Section 1, 75 cm, Ø 3.5 cm, limestone.</p>
2		2		~		P		
3		3		~		S		
4		4	Quaternary	~		P		
5		5		~		P		
6		6		~		S		
7		7		~		P		
		CC				M		



SITE 911 HOLE A CORE 19X

CORED 168.6 - 178.3 mbsf

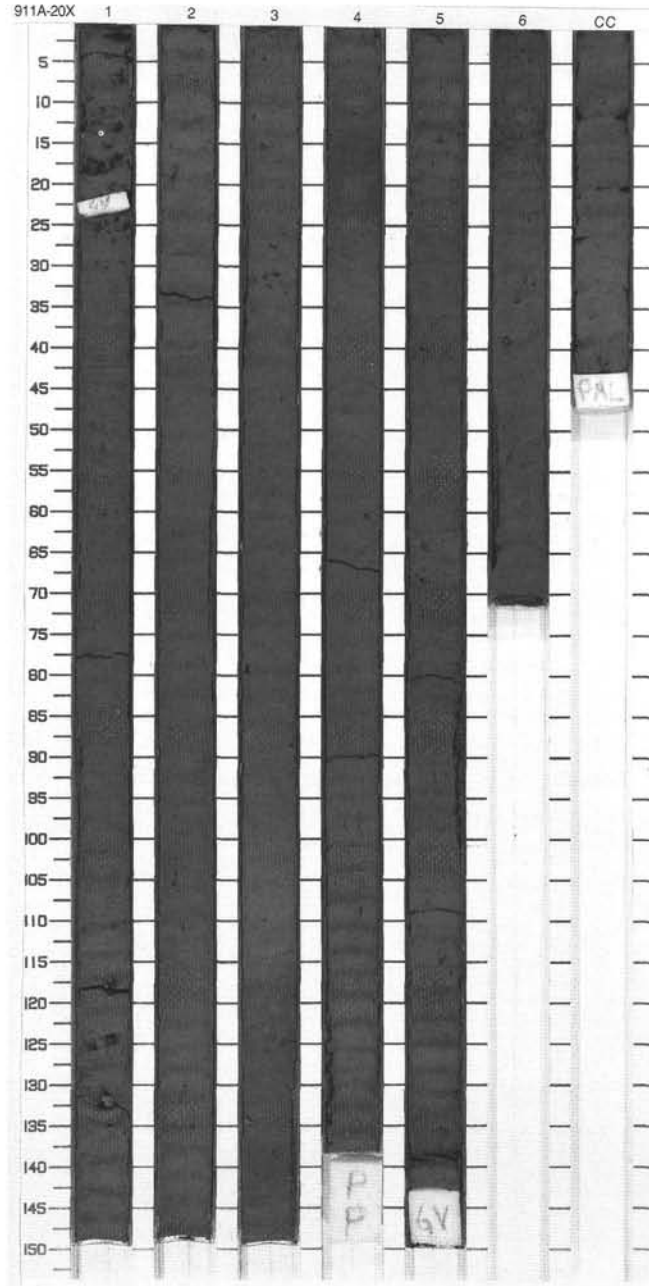
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	~		S	P	<p>SILTY CLAY, CARBONATE-BEARING SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: SILTY CLAY and CARBONATE-BEARING SILTY CLAY, very dark gray (5Y 3/1), are thickly interbedded with CLAYEY SILT, very dark gray (5Y 3/1). They commonly contain black, burrow structures and sandy pockets, mm sized, that are partly composed of Fe sulfide. Section 5 lacks these features. Some pockets are hard, suggesting incipient concretions. Quartz and feldspar are the major silt- and sand-sized components; inorganic calcite may be as high as 10% (Section 2, 47 cm to Section 3, 10 cm).</p> <p>General Description: Dropstones: Section 2, 109 cm, Ø 1.5 cm, shale; 116 cm, Ø 1.7 cm, sandstone.</p>
2	[Hatched pattern]	2	-		P	P	
3	[Hatched pattern]	3	◇		S	P	
4	[Hatched pattern]	3	-		P	P	
5	[Hatched pattern]	3	~		S	P	
6	[Hatched pattern]	4	~		P	P	
7	[Hatched pattern]	4	~		P	P	
8	[Hatched pattern]	5	-		I	P	
9	[Hatched pattern]	5	P		S	P	
10	[Hatched pattern]	CC			M		



SITE 911 HOLE A CORE 20X

CORED 178.3 - 187.9 mbst

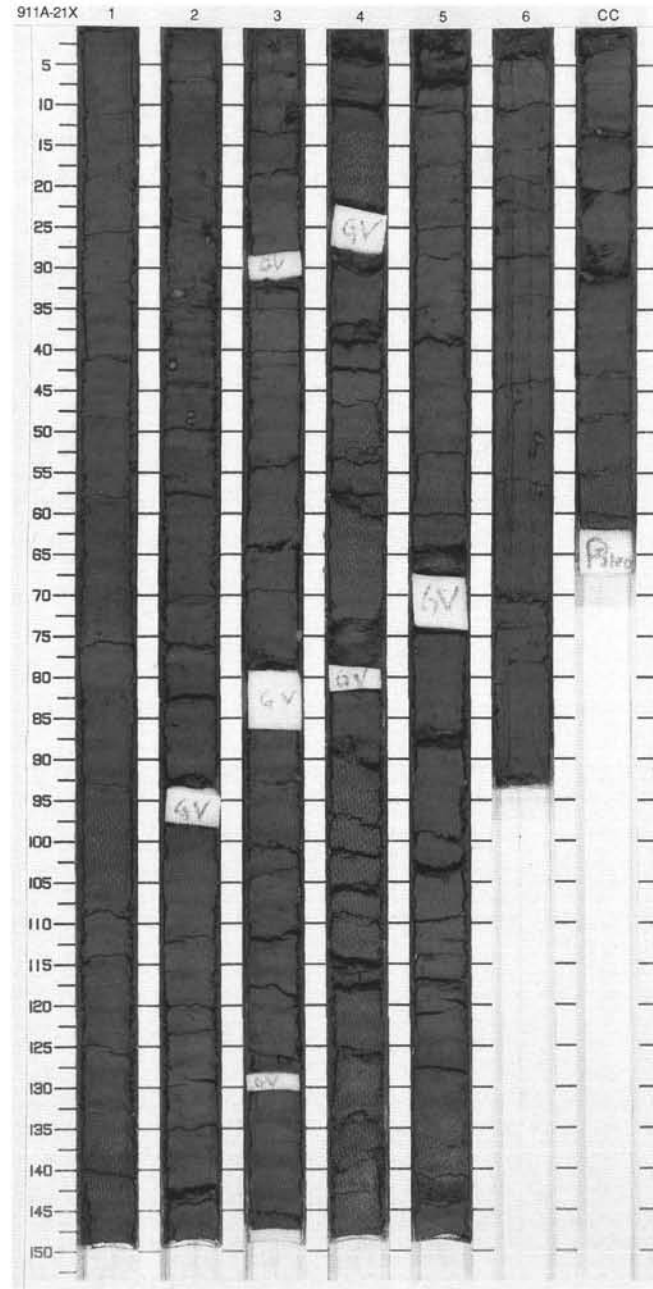
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	Void			~		S P	5Y 3/1 To 2.5YR N2.5/0	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), slightly to moderately bioturbated. Sections 1 and CC show strong mottling (very dark gray and black colors). Mm-sized concretions of Fe sulphides throughout. Sand-filled burrows are present in Section 4. Coarse fraction includes quartz, feldspar, and 0-5% inorganic carbonate, opaques, and accessory minerals.</p> <p>Minor Lithologies: CLAYEY MUD and SILTY MUD, both very dark gray (10YR 3/1) are interbedded with SILTY CLAY in the following intervals; Section 3, 118 cm to Section 4, 26 cm and Section 5, 23-84 cm. Mud layers are predominantly homogeneous. A layer of CARBONATE CLAY, dark gray (5Y 4/1) is present in Section 3, 101-118 cm.</p> <p>General Description: Section 1, 132 cm, Ø 1.6 cm, pyrite concretion.</p>
2				~		S P		
3				~		P	5Y 3/1	
4				~		P		
5		Quaternary		~		S P	5Y 3/1 To 10YR 3/1	
6				~		P W		
7				~		P	5Y 3/1	
8	Void			~		P		
CC				~		S M		



SITE 911 HOLE A CORE 21X

CORED 187.9 - 197.5 mbsf

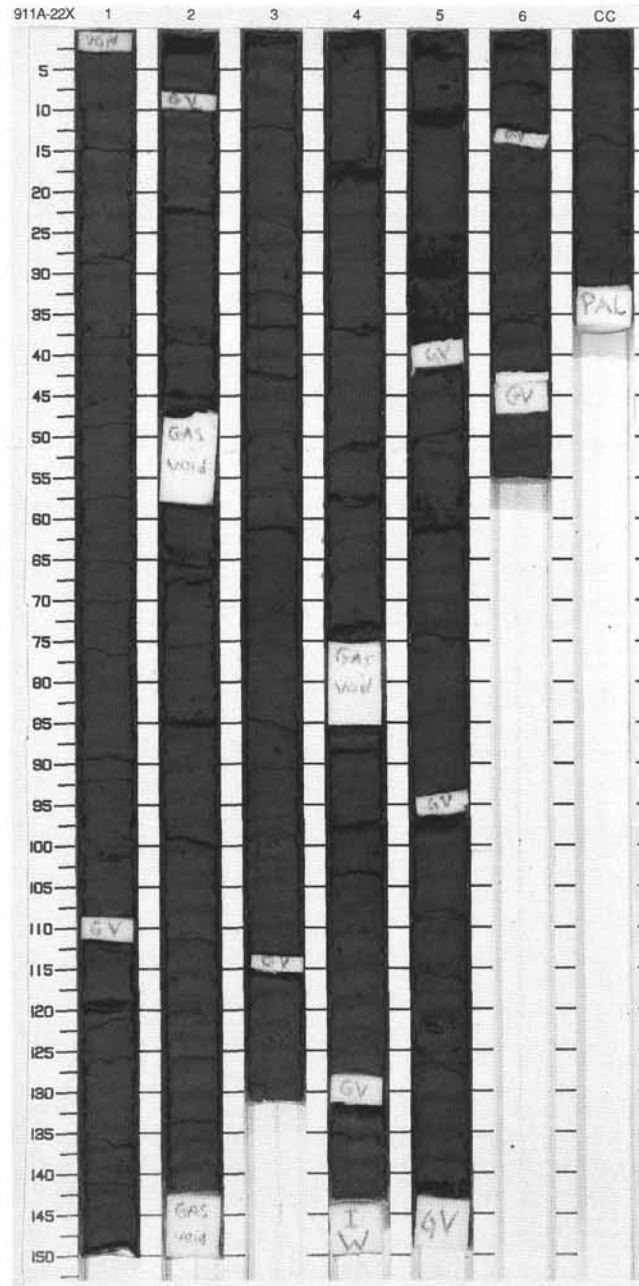
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1				P		<p>CLAYEY SILT and SILTY MUD</p> <p>Major Lithologies: CLAYEY SILT and SILTY MUD, very dark gray (5Y 3/1) to black (5Y 2.5/1), structureless except the black patches due to bioturbation, which are more visible within the finer grained intervals. Coarse granules and small dropstones occur in both lithologies. Moderate drilling disturbance and gas expansion throughout.</p> <p>General Description: Dropstones: Section 2, 22 cm, Ø 2.5 cm and 0.8 cm, sandstone. Section 3, 9 cm, Ø 1.2 cm, sandstone. Section 6, 56 cm, Ø 1.0 cm, sandstone.</p> <p>Majors voids: Section 2, 92-97 cm, Section 3, 28-31, 78-86, and 128-130 cm, Section 5, 67-75 cm.</p>
2	[Hatched pattern]	2				S S S S		
3	[Hatched pattern]	3				P		
4	[Hatched pattern]	4				P		
5	[Hatched pattern]	5				P P	5Y 3/1 To 5Y 2.5/1	
6	[Hatched pattern]	6				P		
7	[Hatched pattern]	7				P		
8	[Hatched pattern]	8				S P		
9	[Hatched pattern]	9				P		
10	[Hatched pattern]	10				M		



SITE 911 HOLE A CORE 22X

CORED 197.5 - 207.2 mbsf

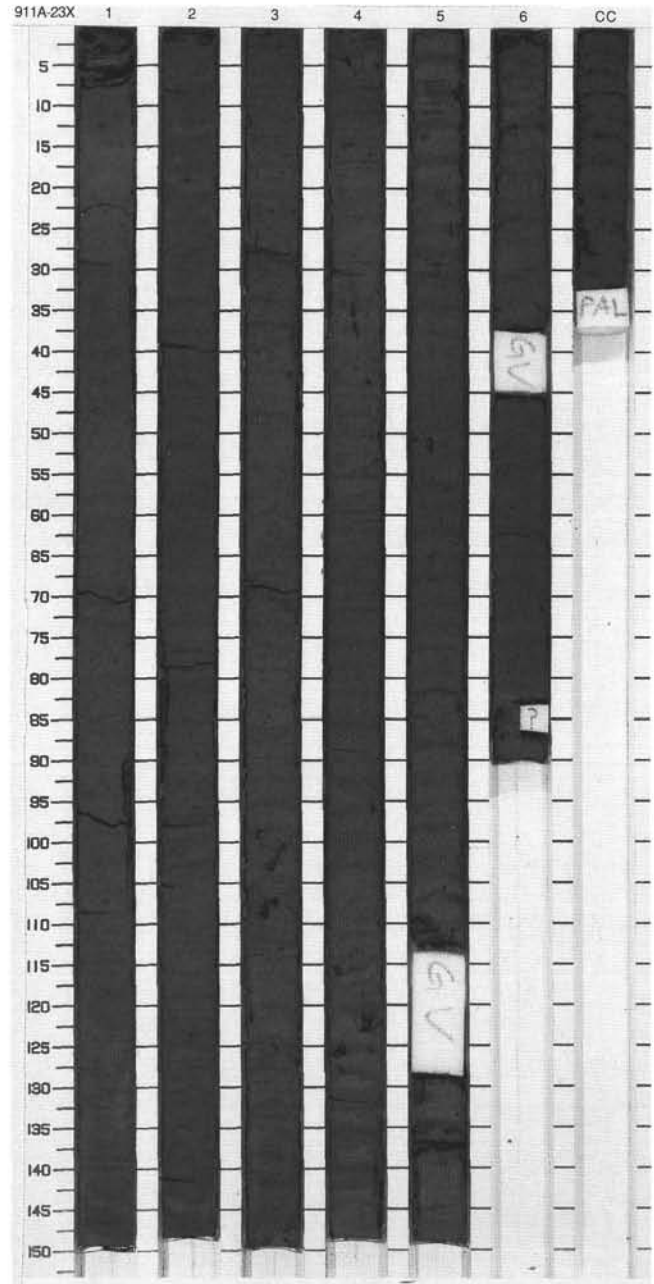
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1				}}		P		<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: SILTY CLAY and CLAYEY SILT, very dark gray (5Y 3/1), typically contain mm- to cm-size, black pockets of Fe-sulphide-rich sediment which are possible burrow structures. Some pockets are partly indurated and considered to be incipient concretions; a concretion layer occurs in Section 5, 26-30 cm. Gray (5Y 5/1) sandy pockets are sparsely scattered through the core. Quartz and feldspar are the main silt- and sand-sized grains; inorganic calcite, volcanic glass, and accessory minerals are minor components.</p> <p>Minor Lithology: CLAYEY MUD, very dark gray (5Y 3/1), is homogeneous with few black pockets, as in the major lithologies. It occurs in Section 3, 60-77 cm; Section 4, 89-109; Section 5, 0-26 cm. Top and bottom contacts are gradational. Quartz is the main silt- and sand-sized grain; feldspar, inorganic calcite, accessory minerals, and opaques are minor components.</p>
2	Void			}}		P		
3	Void			}}		P		
4	Void			}}		S		
5	Void			}}		P	5Y 3/1	
6				}}		P		
7				}}		P		
8				}}		S		
	Void			}}		P		
				}}		P		
				}}		M		



SITE 911 HOLE A CORE 23X

CORED 207.2 - 216.8 mbsf

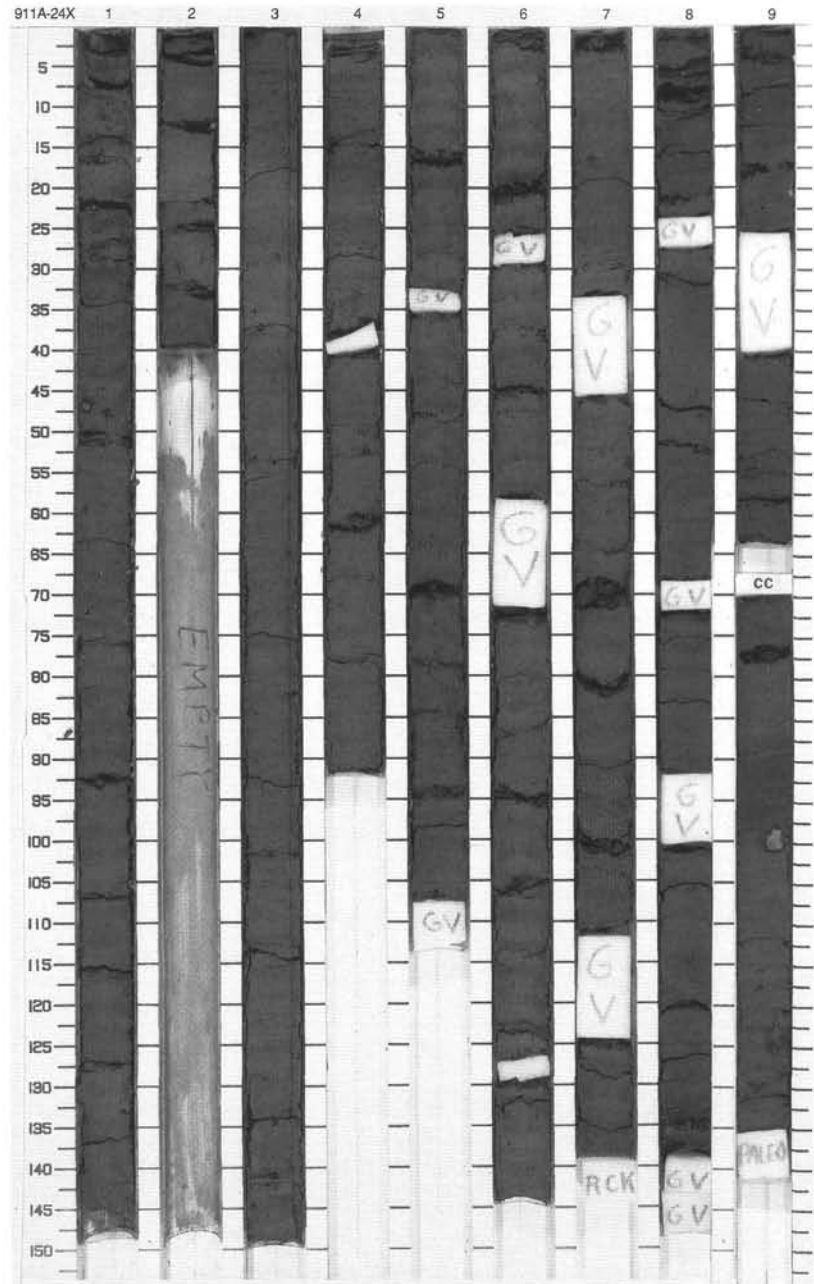
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	[Symbol]	✓	S		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, gray (5Y 5/1) to black (5Y 2.5/1). Several coarser layers (1.0 cm thick) occur with gradational contacts in Section 1, 20-42 cm; Section 6, 83-89 cm. Thin color bands occur in Section 1 and Section 4. Slight to moderate bioturbation, often filled with black Fe sulfide, is recognized throughout the core.</p> <p>Minor Lithology: CARBONATE-BEARING SILTY CLAY, dark gray (5Y 4/1), slightly bioturbated, with high amount of inorganic calcite particles (up to 30%) in Section 1, 13-20 cm.</p> <p>General Description: Dropstone: Section 4, 124 cm, Ø 1.5 cm, quartzitic.</p>
2	[Symbol]	2	[Symbol]		S		
3	[Symbol]	2	[Symbol]		P	5Y 5/1 To 5Y 2.5/1	
4	[Symbol]	3	[Symbol]		P		
5	[Symbol]	4	[Symbol]		S		
6	[Symbol]	4	[Symbol]		P		
7	[Symbol]	5	[Symbol]		P	5Y 3/1	
8	[Symbol]	6	[Symbol]		P		
	[Symbol]	CC	[Symbol]		M		



SITE 911 HOLE A CORE 24X

CORED 216.8 - 226.4 mbsf

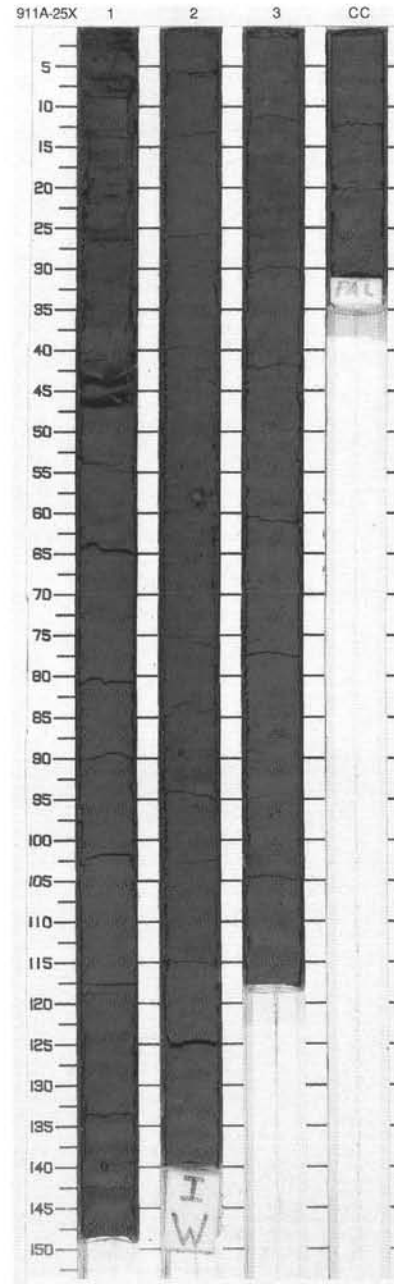
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	~	1	Quaternary	~	WWW	P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), moderately bioturbated with black (N3) mottling. Distinct white and buff burrow fills throughout. Burrow fills contain a high percentage of carbonate and coarser grains. Minor grain-size variations are present and near the base of the core, coarser and graded sediments are observed.</p> <p>Minor Lithologies: CARBONATE CLAYEY MUD, very dark gray (5Y 3/1), in graded and disseminated layers, Section 9 and CC. Within this coarse interval is SILTY MUD, in Section CC, 17-29 cm, and at the top of the SILTY MUD is a thin dark gray (5Y 4/1) band, Section CC, 16-17 cm. This is overlain by SILTY CLAY, Section CC, 0-16 cm. CLAYEY MUD is also present in a graded bed above a scour in Section 3, 121-126 cm.</p> <p>General Description: Graded intervals in Section 1, 0-50 cm, Section 8, 121-126 cm, Section 9, 54-41 cm, and Section CC, 17-28, 48-53, and 62-70 cm. The pyrite concretions in Section 7, 16 cm, has a yellow (sulfur?) rim.</p> <p>Dropstones: Section 9, 54, Ø 1.0 cm, dark gray siltstone. Section CC, 28 cm, Ø 2.5 cm, angular, buff-yellow siltstone; 52 cm, Ø 1.0 cm, angular siltstone.</p>
2	~	2		~	WWW	P		
3	~	3		~	WWW	P		
4	~	4		~	WWW	P		
5	~	5		~	WWW	S		
6	~	6		~	WWW	P		
7	~	7		~	WWW	P		
8	~	8		~	WWW	I		
9	~	9		~	WWW	P		
10	~	9		~	WWW	P		
11	~	CC		~	WWW	S		
12	~	CC		~	WWW	M		



SITE 911 HOLE A CORE 25X

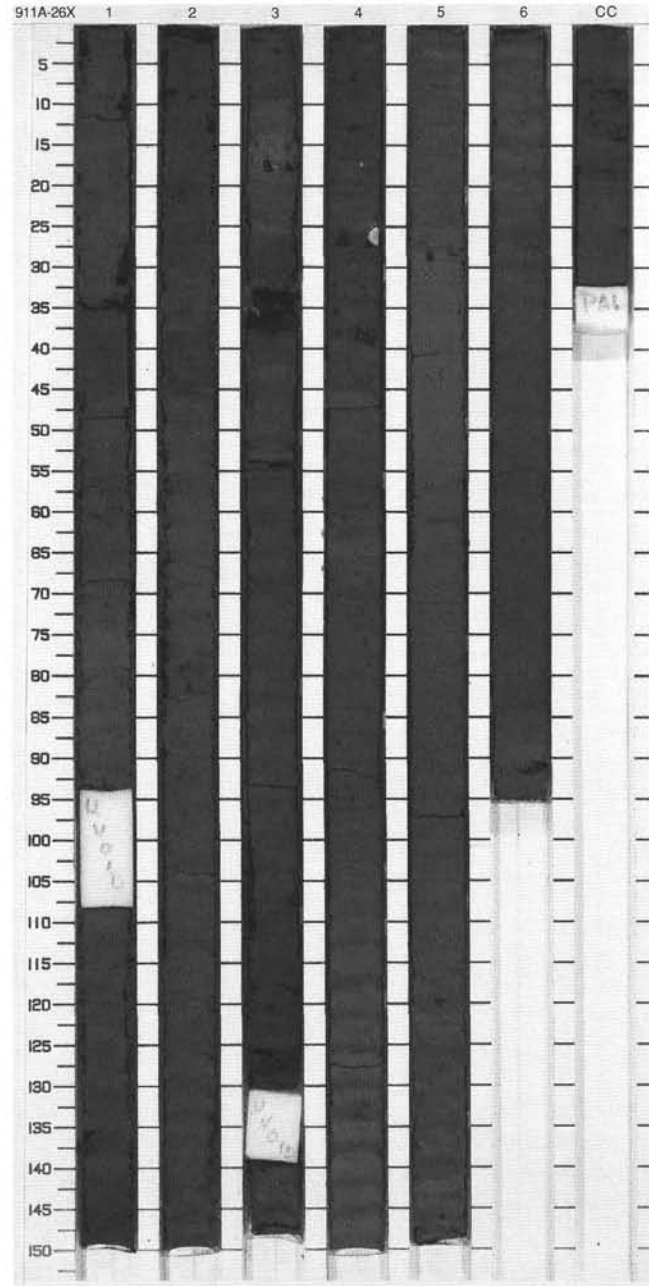
CORED 226.4 - 236.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Quaternary	[Symbol]	w	S P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Olive gray (5Y 3/1) to very dark gray (5Y 4/2) SILTY CLAY. After clay minerals, quartz (20% to 30%) is the most important component. Feldspars are locally important (5% to 14%). Calcareous nanofossils occur in trace amounts up to 2%.</p> <p>General Description: Sediment is soft near the top of Section 1 and moderately firm elsewhere. Subtle color and textural variations correspond to varying silt concentrations (30% to 50%).</p> <p>Dropstones: Section 1, 140 cm, Ø 1.0 cm, shale. Section 2, 58 cm, Ø 1.0 cm, limestone.</p>
1	[Symbol]	1	Quaternary	[Symbol]		S P	5Y 4/1	
2	[Symbol]	2	Quaternary	[Symbol]		S P	5Y 3/1	
2	[Symbol]	2	Quaternary	[Symbol]		S P	5Y 4/2	
3	[Symbol]	3	Quaternary	[Symbol]		I	5Y 3/1	
3	[Symbol]	3	Quaternary	[Symbol]		S P	5Y 4/2	
4	[Symbol]	4	Quaternary	[Symbol]		S P	5Y 3/1	
	[Symbol]	CC		[Symbol]		M		



SITE 911 HOLE A CORE 26X CORED 236.1 - 245.8 mbsf

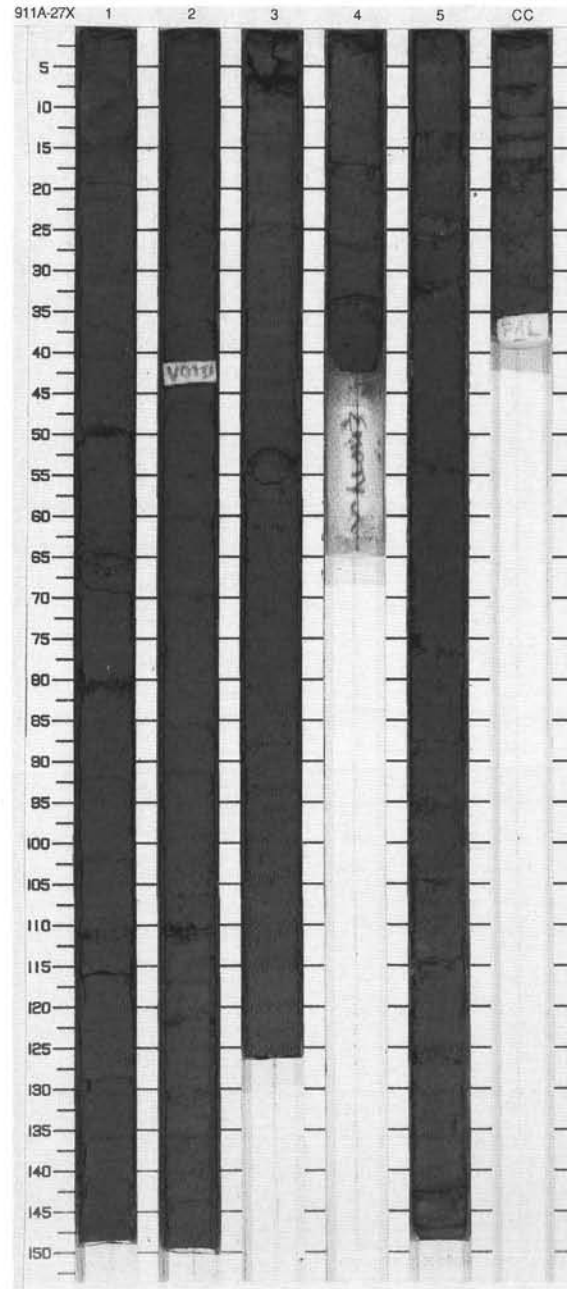
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	Void	1				S P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1) to dark gray (10YR 4/1). Upper two sections are slightly bioturbated, the lower sections are moderately bioturbated. Some borrows are filled with white silt; black fillings of Fe sulfide are abundant. Mottled surface is common. Coarser layers (1.0 cm) are present throughout the whole core.</p> <p>Minor Lithologies: SANDY MUD, very dark gray (5Y 3/1), moderately bioturbated, in Section 3, 60-130 cm. White burrow fills are abundant. CARBONATE SILTY CLAY, very dark gray (5Y 3/1), moderately bioturbated, in Section 3, 21-33 cm. The carbonate is inorganic.</p> <p>General Description: Dropstone: Section 4, 24 cm, Ø 2.5 cm, carbonate rich siltstone.</p>
2		2				P	10YR 3/1	
						P	10YR 4/1	
3		3				S P	10YR 3/1	
4	Void	4				S		
5		5	Quaternary			S P		
6		6				P	5Y 3/1	
7		7				P		
8		8				P		
		CC				M		



SITE 911 HOLE A CORE 27X

CORED 245.8 - 255.5 mbsf

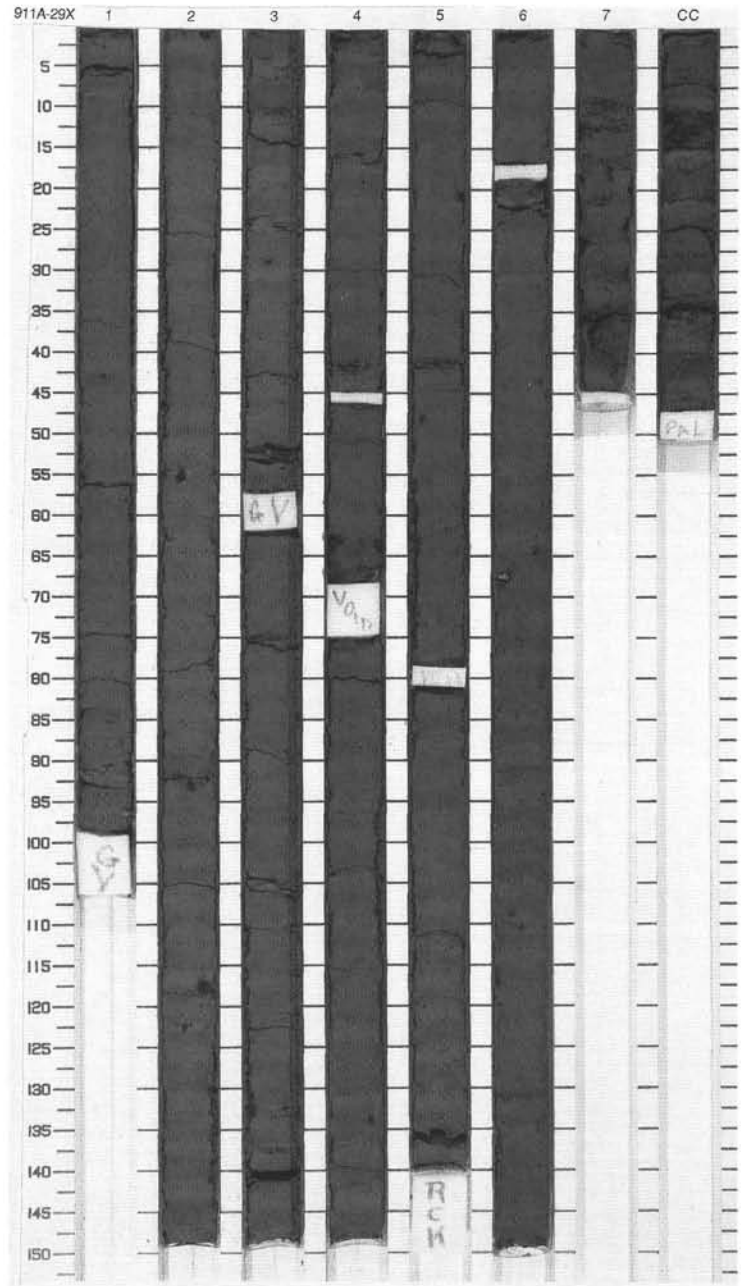
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1	Quaternary	S		S P		CLAY and SILTY CLAY Major Lithologies: CLAY and SILTY CLAY, homogeneous, very dark gray (5Y 3/1), moderately bioturbated. White silty burrow fills are common; black Fe-sulfide burrow fills are abundant. Heavy drilling disturbance in Sections 4, 5, and CC.
2	[Horizontal dashed pattern]	2				P		
3	[Horizontal dashed pattern]	3			W	P	5Y 3/1	
4	[Horizontal dashed pattern]	4				S		
5	[Horizontal dashed pattern]	5				P		
6	[Horizontal dashed pattern]	6				P		
CC	[Horizontal dashed pattern]	CC				M		



SITE 911 HOLE A CORE 29X

CORED 265.1 - 274.7 mbsf

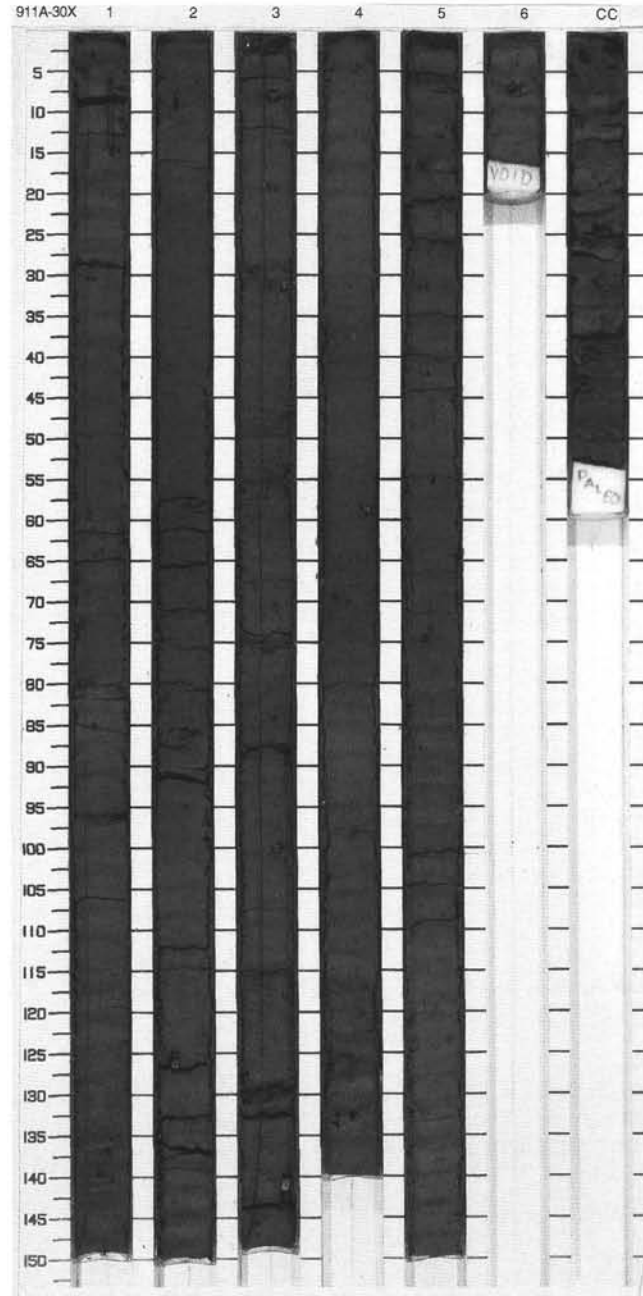
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1			wwwwww	P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), homogeneous except for black pockets, mm to cm size, of Fe-sulfide-rich sediment. Black, incipient concretions of Fe sulfide are sparsely scattered throughout the core. Gray (5Y 5/1) pockets, mm scale, of sandy sediment are rare. The main silt- and sand-sized grains are quartz (25%–30%) and feldspar (15%).</p> <p>General Description: Dropstone: Section 6, 67 cm, Ø 1.8 cm, shale.</p> <p>Concretions, >Ø 1 cm: Section 2, 55, 92, and 117 cm.</p>
2		2				P S P S P		
3		3				P		
4		4				P		
5	VOID					P	5Y 3/1	
6						P		
7	VOID					S		
8						W ^P P		
9						S P		
10						P		
11						M		



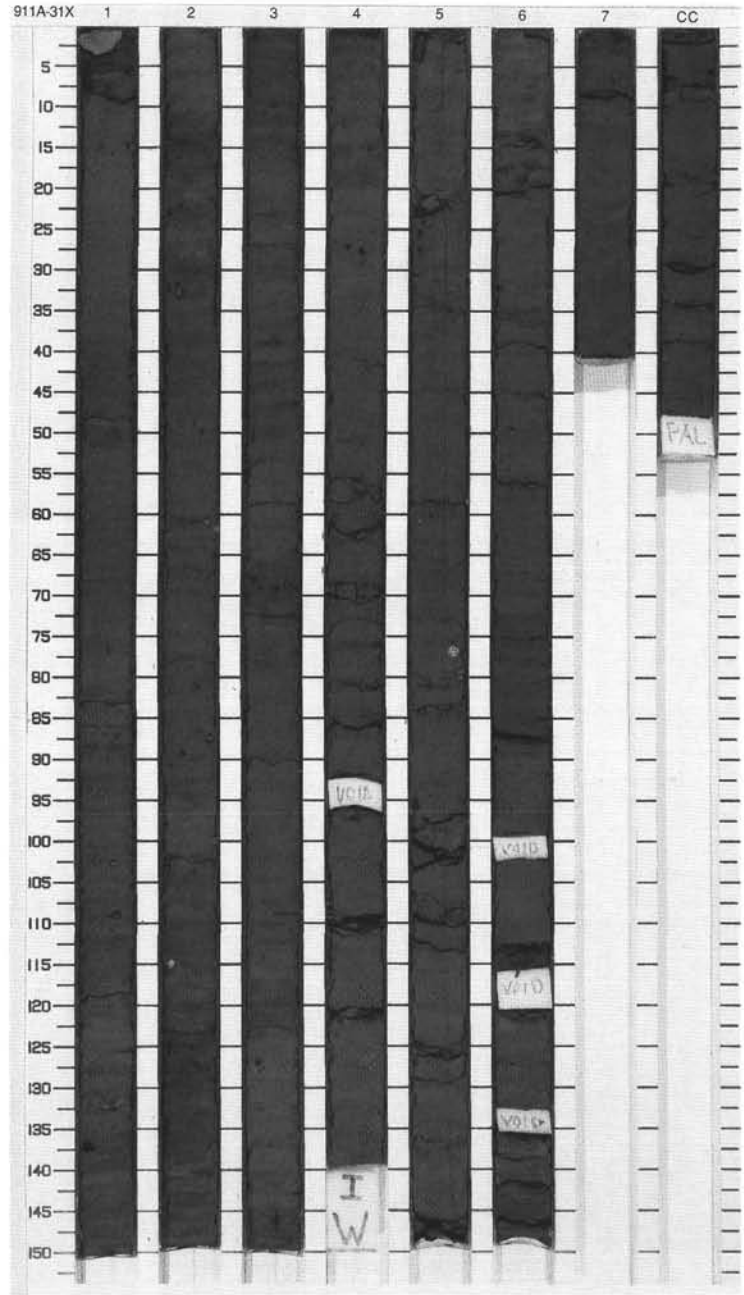
SITE 911 HOLE A CORE 30X

CORED 274.7 - 284.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				P		CLAYEY SILT, SILTY CLAY, and CLAYEY MUD Major Lithologies: CLAYEY SILT, SILTY CLAY, and CLAYEY MUD, very dark gray (5Y 3/1) and slightly bioturbated. Up to cm-sized burrows filled with quartz sand and up to cm-sized black sulfide patches occur in some intervals. Mm-sized pyrite concretions and dropstones are common in all lithologies. Black color bands are present in Section 3. Coarse fraction consists predominantly of quartz and feldspar. Minor Lithology: Layers of homogeneous SILTY MUD, very dark gray (10YR 3/1) occur in the interval, Section 3, 47 cm to Section 5, 35 cm. Contacts between SILTY MUD and CLAYEY MUD layers are gradational. Mm-sized pyrite concretions are very common in SILTY MUD layers. General Description: Pyrite concretions 1 cm were found in Section 3, 100 cm; Section 4, 134 cm; Section 6, 7 cm. Dropstones: Section 2, 126 cm, Ø 1.6 cm, anthracite; Section 3, 7 cm, Ø 1.5 cm, pyrite; Section 3, 142 cm, Ø 1.2 cm, rock fragment.
2		2				S	5Y 3/1	
3		3				P		
4		3				S		
5		4				P	5Y 3/1 To 10YR 3/1	
6		6				P		
7		5				S		
8		6				P	5Y 3/1	
		CC				M		



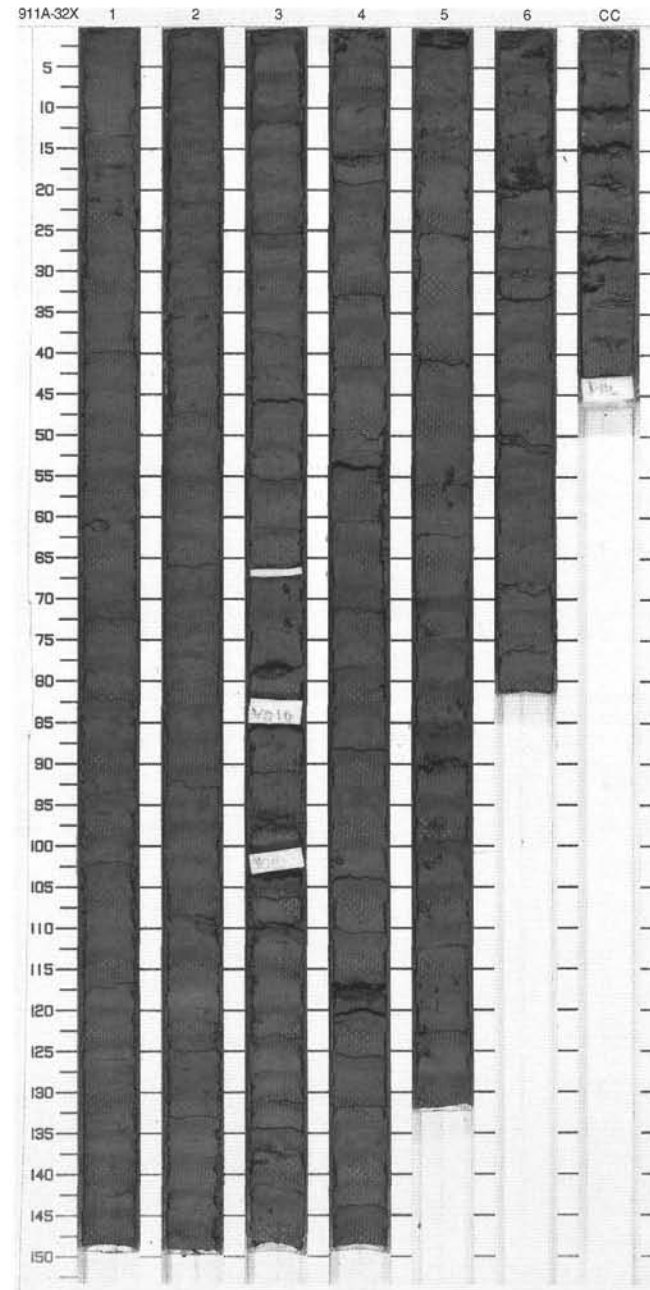
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		[Symbol]		P		<p>SILTY CLAY, CLAYEY SILT, CLAYEY MUD and CLAY</p> <p>Major Lithologies: Structureless interbedded very dark gray (5Y 3/1) SILTY CLAY and CLAYEY SILT with very dark gray, slightly brown, CLAYEY MUD. Contacts are either very gradational or rather sharp. Bioturbation is underlined by discrete dark sulfide patches or mm quartz burrow fills. Large burrows are rare. Sandstone and limestone granules are relatively abundant in the first three sections, which are coarser grained. Sections 4, 5, and 6, where CLAY occurs, are more homogeneous, with more numerous small burrows.</p> <p>General Description: Voids: Section 3, 92-97 cm, Section 6, 99-102cm, 116-120 cm, and 133-136 cm.</p> <p>Dropstones: Section 1, 0 cm, Ø 3.5 cm, fine-grained limestone. Section 4, 63 cm, Ø 1.0 cm, brown shale. Section 5, 23 cm, Ø 2.5 cm, massive sandstone, very angular.</p>
2	[Symbol]	2		[Symbol]		P		
3	[Symbol]	3		[Symbol]		P		
4	[Symbol]	4		[Symbol]		P		
5	[Symbol]	4	Pliocene	[Symbol]		P	5Y 3/1	
6	[Symbol]	5		[Symbol]		P		
7	[Symbol]	6		[Symbol]		P		
8	[Symbol]	6		[Symbol]		P		
9	[Symbol]	7		[Symbol]		S		
10	[Symbol]	CC		[Symbol]		P		



SITE 911 HOLE A CORE 32X

CORED 294.0 - 303.6 mbsf

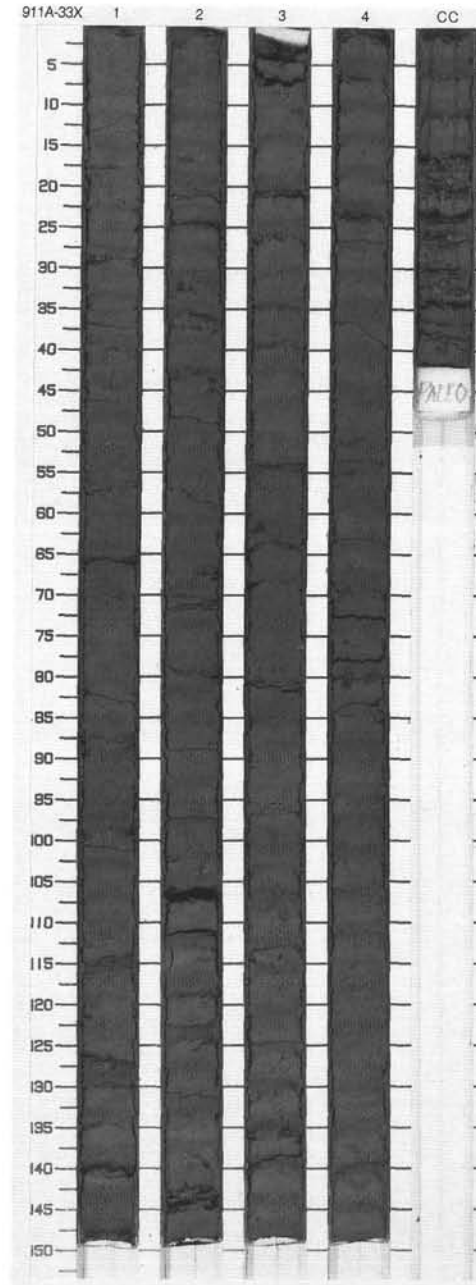
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		⊕		P		<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: SILTY CLAY and CLAYEY SILT, very dark gray (5Y 3/1), contain black pockets, mm-size, of Fe-sulfide-rich sediment which are probable burrows; pockets are less abundant in CLAYEY SILT. Black concretions of Fe-sulfide occur throughout the core. Mm-size gray pockets of sand are rare. Silt- and sand-sized grains comprising SILTY CLAY and CLAYEY SILT are predominantly quartz and feldspar; inorganic calcite may be as much as 5%.</p> <p>Minor Lithologies: CLAYEY CARBONATE to CARBONATE-BEARING CLAY may be dark olive gray (5Y 3/2), very dark grayish brown (2.5Y 3/2) or very dark gray (10Y 3/1). It is homogeneous and occurs in Section 2, 118-120 cm; Section 3, 148 to Section 4, 5 cm; Section 5, 0-16 cm. Inorganic calcite comprises up to 70% of the sediment.</p> <p>General Description: Concretions, $\varnothing > 1.0$ cm: Section 1, 21, 60 cm. Section 5, 54 cm, 73 cm, 90 cm, 97 cm, 102 cm, 107 cm. Section 6, 3 cm.</p>
2		2				P		
3		3				S		
4		4				S P		
5		5				P		
6		6				P		
7		7				P		
8		8				P		
		CC				M		
			Pliocene				5Y 3/1	



SITE 911 HOLE A CORE 33X

CORED 303.6 - 313.3 mbsf

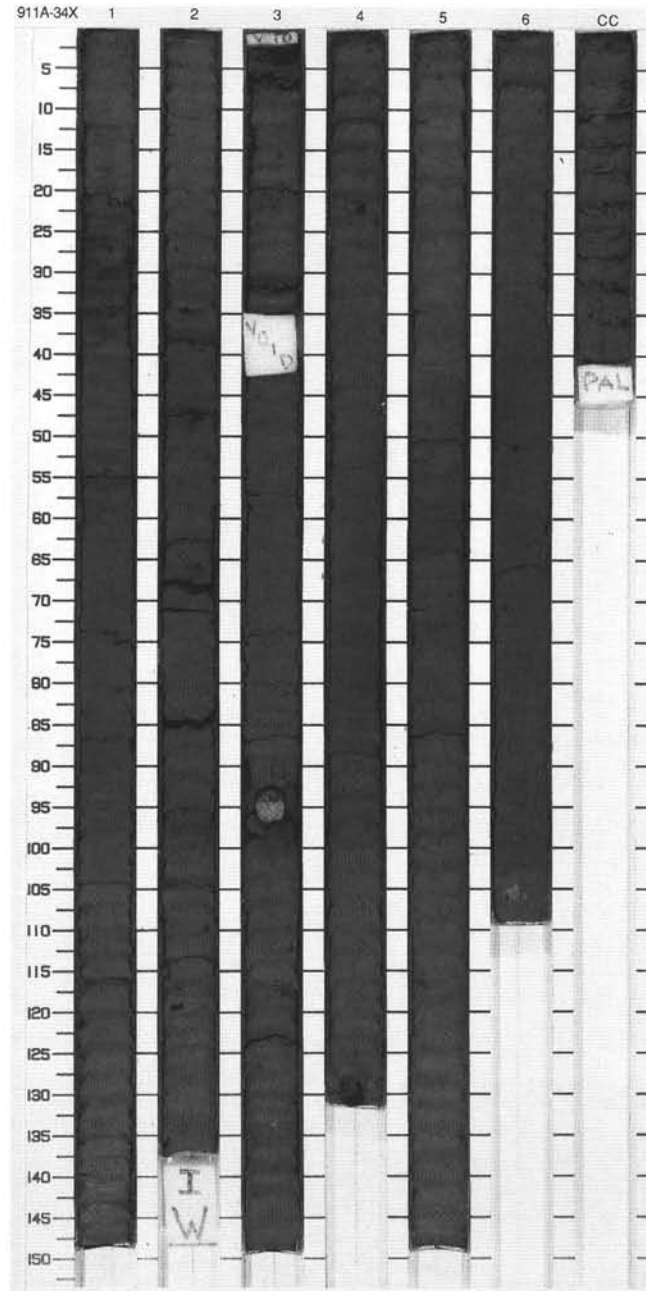
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		~		P		<p>SILTY CLAY</p> <p>Major Lithology: Slightly to moderately bioturbated SILTY CLAY, very dark gray (5Y 3/1). Mm-sized burrows filled with silt- and sand-sized quartz grains throughout the core. Black sulfide patches up to cm size are common. A few mm-sized pyrite concretions were found. Coarse fraction includes, in decreasing order, quartz, feldspar, inorganic calcite, and opaques.</p>
2	[Hatched pattern]	2		~		S		
3	[Hatched pattern]	3		~		P		
4	[Hatched pattern]	3	Pliocene	~		P	5Y 3/1	
5	[Hatched pattern]	4		~		P		
6	[Hatched pattern]	4		~		P		
	[Hatched pattern]	CC		~		S		
	[Hatched pattern]			~		P		
	[Hatched pattern]			~		M		
	[Hatched pattern]			~				



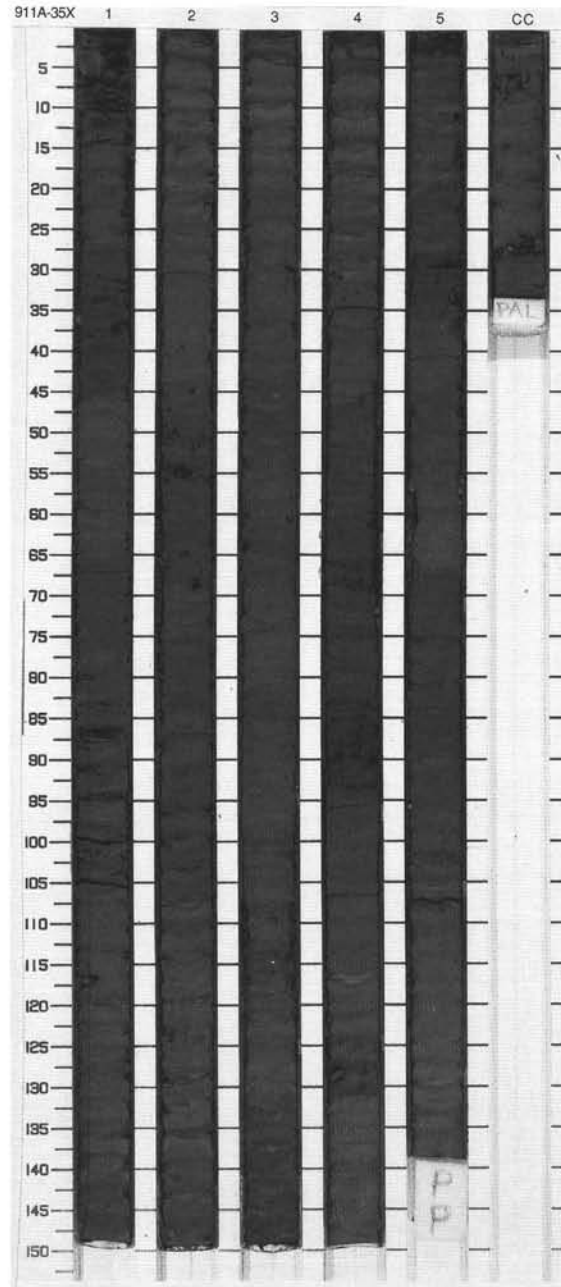
SITE 911 HOLE A CORE 34X

CORED 313.3 - 322.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		~		P		<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: SILTY CLAY, homogeneous, very dark gray (5Y 3/1) interbedded with 5- to 30-cm-thick CLAYEY SILT layers. The transitions between these two lithologies are gradational. A few scattered granules are found in both lithologies. Bioturbation is slight; black sulfide specks are more abundant in the finer grained sections (Sections 4 to CC).</p> <p>General Description: Void: Section 3, 34-42 cm. 1.0-cm-wide fractures in Section 2.</p> <p>Dropstones: Section 3, 92 cm, Ø 3.5 and 2.0 cm, both subangular calcareous sandstone with a single side altered. Section 4, 131 cm, Ø 3.0 cm, well-rounded siltstone.</p>
2	[Hatched pattern]	2		~		S P		
3	[Hatched pattern]	3		~		P		
4	[Hatched pattern]	3		~		S P		
5	[Hatched pattern]	4		~		P	5Y 3/1	
6	[Hatched pattern]	4		~		P		
7	[Hatched pattern]	5		~		P		
8	[Hatched pattern]	5		~		S		
	[Hatched pattern]	6		~		P		
	[Hatched pattern]	6		~		P		
	[Hatched pattern]	CC		~		S		
	[Hatched pattern]			~		M		

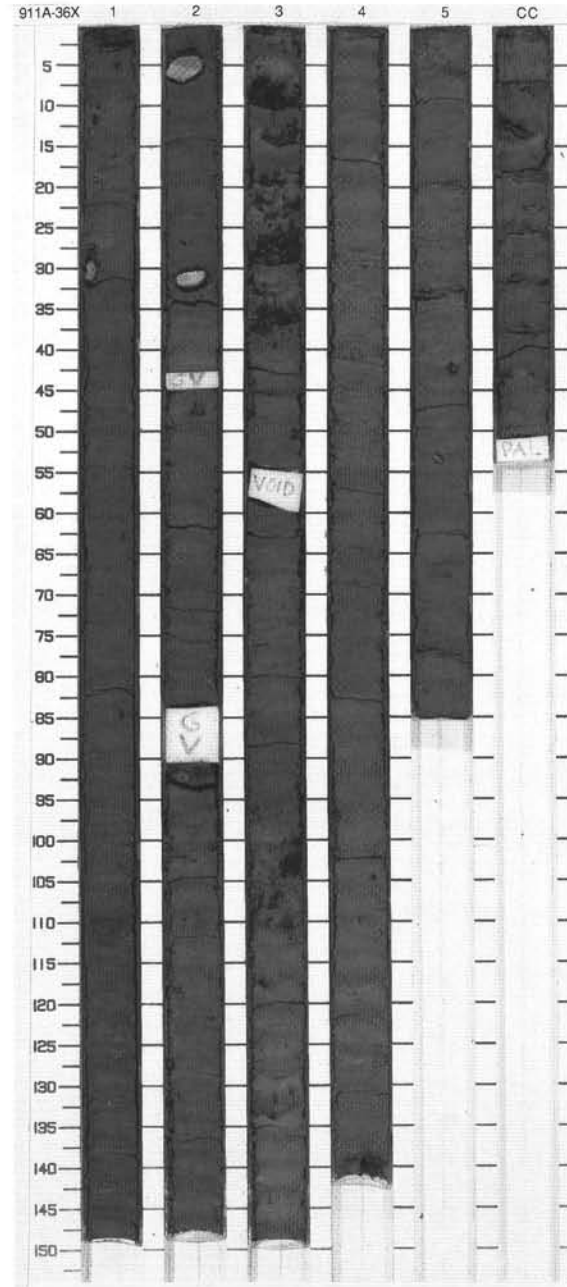


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		[Wavy lines]		S P	10YR 3/1	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: SILTY CLAY, very dark gray (5Y 3/1) and CLAYEY SILT, very dark gray (10YR 3/1) or dark gray (5Y 4/1). SILTY CLAY is the dominant lithology throughout the core. CLAYEY SILT occurs in layers, up to 15 cm thick with sharp or gradational lower contact and gradational upper contacts. CLAYEY SILT layers are present in Sections 2 to 5. A 5% inorganic calcite content partly explains the lighter color of these layers. The sediment is predominantly slightly bioturbated, with sand-filled burrows and black sulfide patches scattered throughout the core. A large number of pyrite concretions, up to Ø 1.8 cm, are present.</p> <p>Minor Lithology: A fining-upward sequence with sharp lower contacts occur in Section 4. SILTY MUD, very dark gray (10YR 3/1) is found at the base of this sequence.</p>
2	[Hatched pattern]	2		[Wavy lines]		S P	5Y 3/1	
3	[Hatched pattern]	3		[Wavy lines]		P	5Y 3/1 To 5Y 4/1	
4	[Hatched pattern]	3		[Wavy lines]		S P	5Y 3/1	
5	[Hatched pattern]	4		[Wavy lines]		P	10YR 3/1	
6	[Hatched pattern]	4		[Wavy lines]		S		
7	[Hatched pattern]	5		[Wavy lines]		P	5Y 3/1	
	[Hatched pattern]	5		[Wavy lines]		P		
	[Hatched pattern]	5		[Wavy lines]		S P		
	[Hatched pattern]	5		[Wavy lines]		W		
	[Hatched pattern]	CC		[Wavy lines]		M		



SITE 911 HOLE A CORE 36X CORED 332.6 - 342.2 mbst

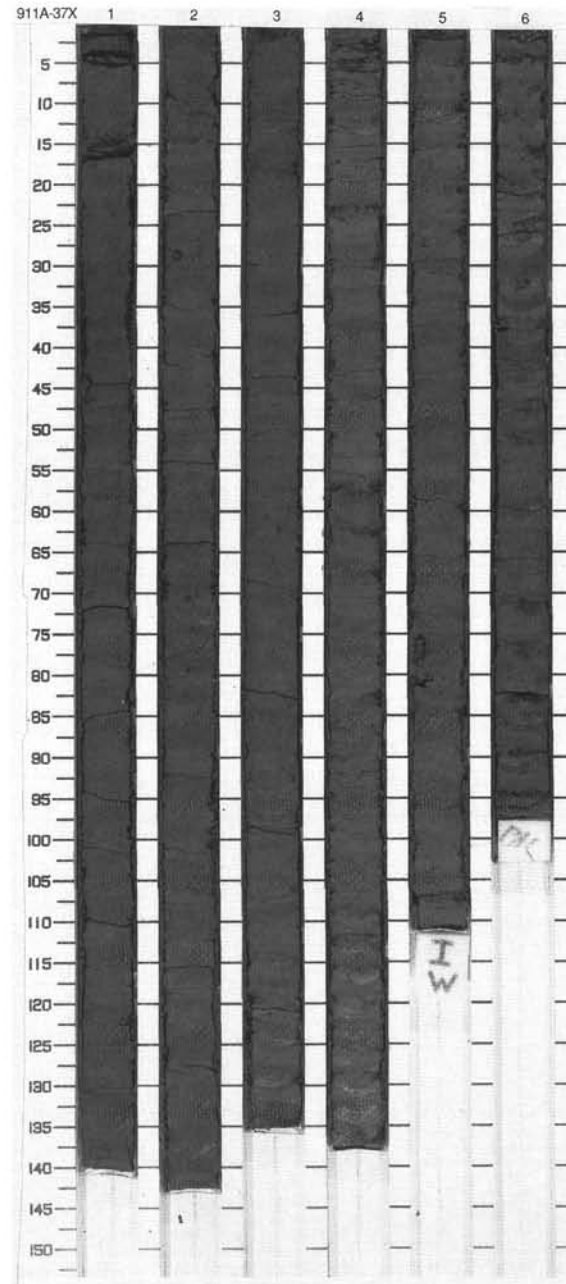
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		◇		P	5Y 3/1	SILTY CLAY and CLAYEY MUD Major Lithologies: Very dark gray (5Y 3/1) SILTY CLAY and CLAYEY MUD. Lithologies differ by only small differences in sand content (8%–10%) and are largely indistinguishable. Quartz is the only important non-clay constituent (~30%) and both feldspar and opaques are minor (5%) constituents.
2	[Symbol]	2		◇		S P	5Y 4/1	
3	[Symbol]	3		◇		P		Minor Lithology: A thin layer of CARBONATE CLAY occurs in Section 4, 99 cm. It contains nearly 90% inorganic calcite and 10% quartz.
4	[Symbol]	4		◇		S		General Description: The sediment has a faintly mottled appearance and contains silt-filled burrows interspersed throughout. Dark monosulfides are dispersed in all sections, with concentrated layers in Section 2, 46 cm, and Section 3, 10 cm.
5	[Symbol]	5		◇		P	5Y 3/1	
6	[Symbol]	6		◇		P		Dropstones: Section 1, 29 cm, Ø 2.5 cm, sandstone. Section 2, 3 cm, Ø 5.2 cm, quartzite; Section 3, 30 cm, Ø 3.5 cm, light gray quartzite. Section 5, 41 cm, Ø 1.5 cm, gray siltstone; 52 cm, Ø 1.0 cm, basaltic.
7	[Symbol]	7		◇		P		
		CC				M		



SITE 911 HOLE A CORE 37X

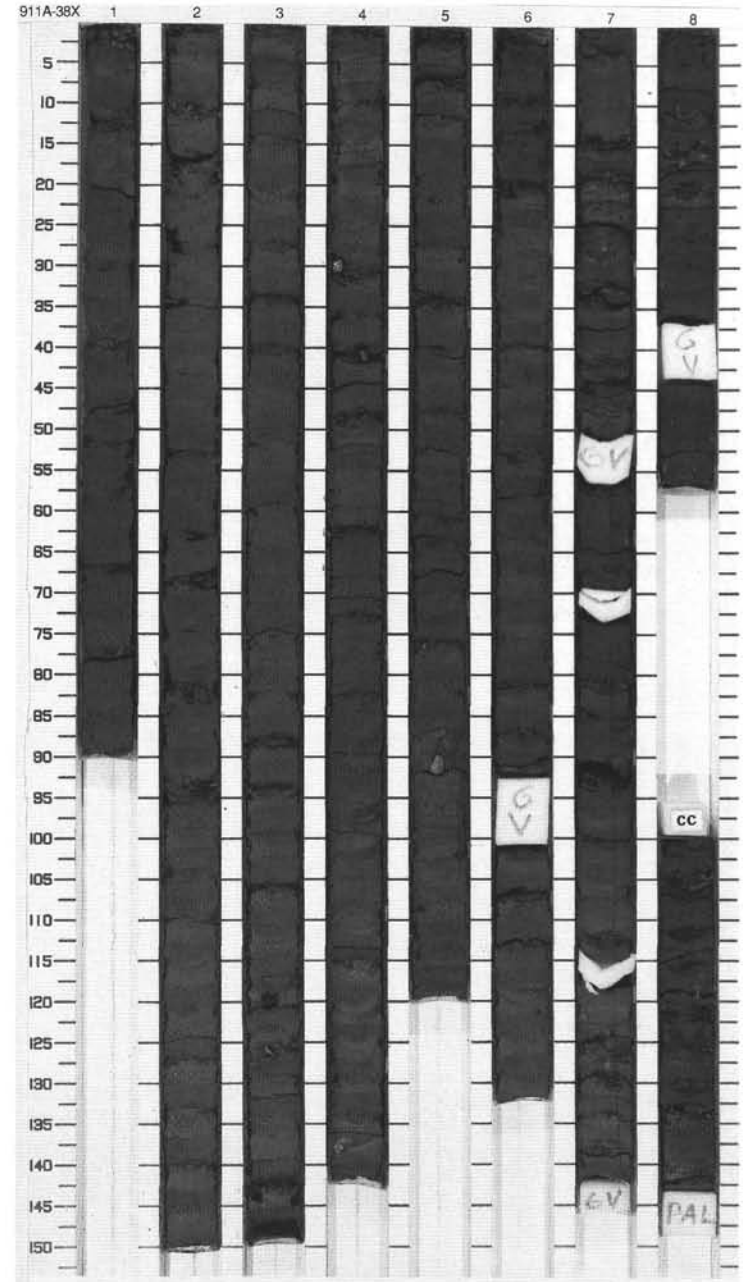
CORED 342.6 - 351.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		↑ c		P	5Y 3/1 To 10YR 3/2	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: SILTY CLAY to CLAYEY SILT, very dark gray (5Y 3/1) to dark gray (N 4/0), with slight to moderate bioturbation throughout the core. Burrows are rarely filled with sandy mud. Black sulfide patches are not observed in whole sections. The sediment is composed of ~50% clay, 20% quartz, 10% feldspar, 5% accessory minerals, inorganic calcite, and opaques.</p> <p>General Description: Concretion (Ø 1.0 cm), cemented by carbonate, occurs in Section 5, 78-79 cm, just above the rounded carbonate mud clast (Ø 2.0 cm).</p> <p>DROPSTONES: Section 2, 28-29 cm, Ø 1 cm, siltstone (rounded).</p>
2	[Hatched pattern]	2		◇		S	5Y 3/1	
3	[Hatched pattern]	3		◇		P	5Y 3/1	
4	[Hatched pattern]	3		◇		P	2.5Y N4/0	
5	[Hatched pattern]	4		◇		P	2.5Y N4/0	
6	[Hatched pattern]	5		◇		S	5Y 3/1	
7	[Hatched pattern]	6		◇		P	5Y 3/1	
				◇		I		
				◇		M		

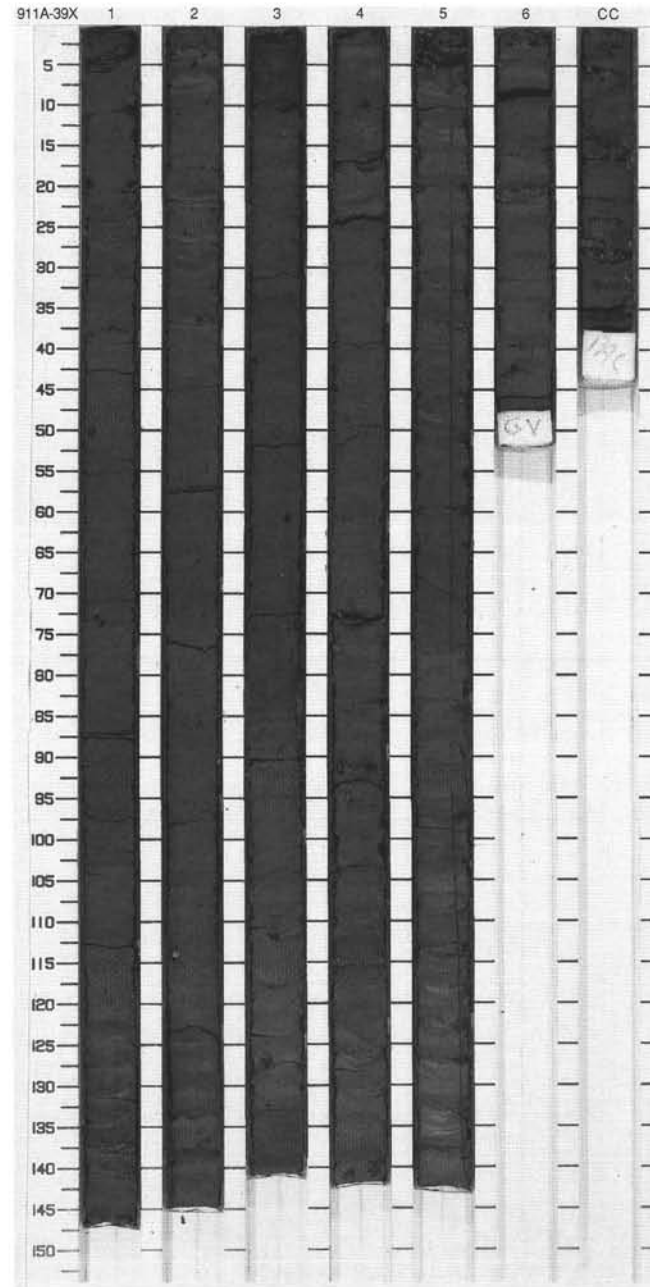


SITE 911 HOLE A CORE 38X CORED 351.9 - 361.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		[Wavy line]		P		SILTY CLAY Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), with minor grain-size variations throughout.
2	[Hatched pattern]	2		[Wavy line]		P		Minor Lithologies: CARBONATE-BEARING SILTY CLAY, very dark gray (5Y 4/1), in Section 5, 106 cm to Section 6, 81 cm, with a thin layer of CARBONATE-BEARING CLAYEY MUD in Section 6, 14-20 cm.
3	[Hatched pattern]	3		[Wavy line]		S		General Description: Small gas voids occur in Sections 6 through 7. Heavily biscuited, firm sediment, with black and white burrow fills and mottles of iron sulfide. Grain-size variations are present, although within the range of the silty clay classification. The coarsest layers coincide with the carbonate-bearing sediment.
4	[Hatched pattern]	4		[Wavy line]		P		
5	[Hatched pattern]	4		[Wavy line]		P		
6	[Hatched pattern]	5	Pliocene	[Wavy line]		P	5Y 3/1	Dropstones: Section 2, 21 cm, Ø 1.0 cm, siltstone. Section 3, 128 cm, Ø 1.5 cm, siltstone. Section 4, 30 cm, Ø 2.5 cm, sulfide. Section 5, 89 cm, Ø 3.0 cm, angular gray schist.
7	[Hatched pattern]	6		[Wavy line]		S P		
8	[Hatched pattern]	6		[Wavy line]		P		
9	[Hatched pattern]	7		[Wavy line]		S		
10	[Hatched pattern]	7		[Wavy line]		P		
11	[Hatched pattern]	8		[Wavy line]		P		
12	[Hatched pattern]	CC		[Wavy line]		M		

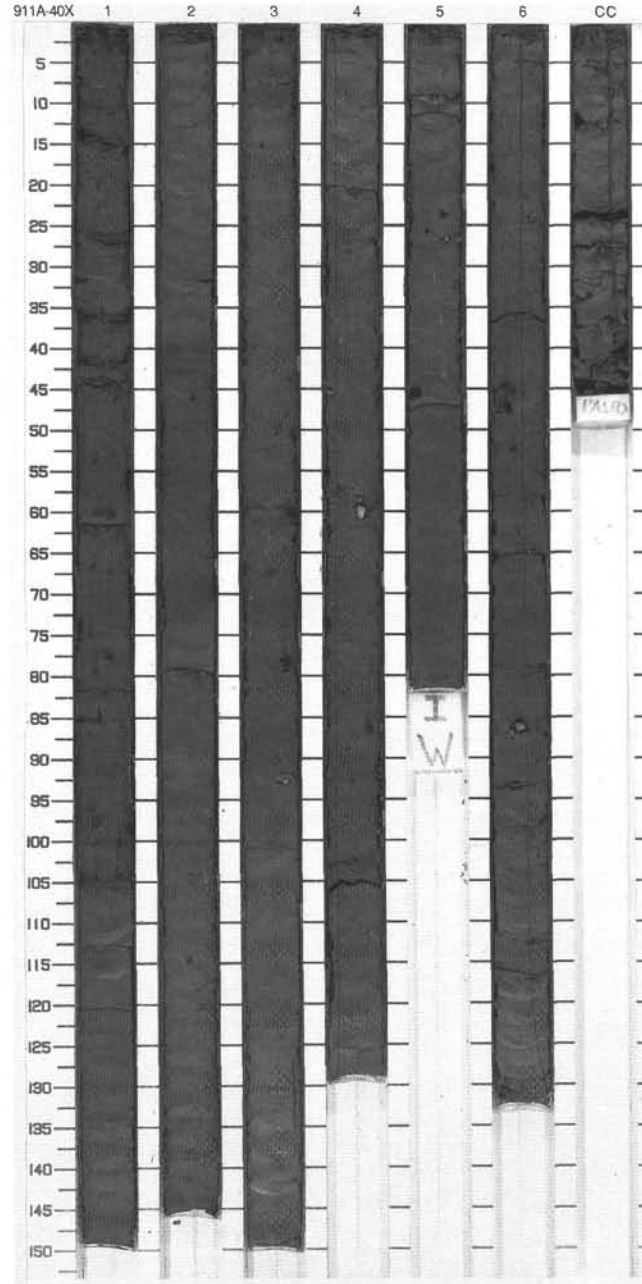


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]			◇ } ◇ } ◆ } ◇ } ◇ }		P S P P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1) to olive gray (5Y 4/2) SILTY CLAY. The darker sediment has a smooth surface texture. Quartz grains (16%–28%) are, after clay, the dominant component. Feldspar is present in lesser amounts (4%–8%).</p> <p>General Description: The sediment is moderately firm to firm throughout. Typical drilling biscuits are spaced at 2–5-cm intervals. Bioturbation is light to moderate, and pervasive.</p> <p>Dropstones: Section 1, 50 cm, Ø 1.0 cm, gray siltstone. Section 2, 114 cm, Ø 1.1 cm, light gray quartzite. Section 3, 131 cm, Ø 1.0 cm, siltstone.</p>
2	[Symbol]			◇ } ◇ }		P		
3	[Symbol]			◇ }		P	5Y 4/2	
4	[Symbol]			◇ }		S		
5	[Symbol]			◇ }		P	5Y 3/1	
6	[Symbol]			◇ }		P	5Y 4/2	
7	[Symbol]			⊙ } ⊙ }		S P	5Y 3/1	
8	[Symbol]			⊙ }		P		
	Void							
		CC		⊙ }		M		



SITE 911 HOLE A CORE 40X CORED 370.9 - 380.4 mbsf

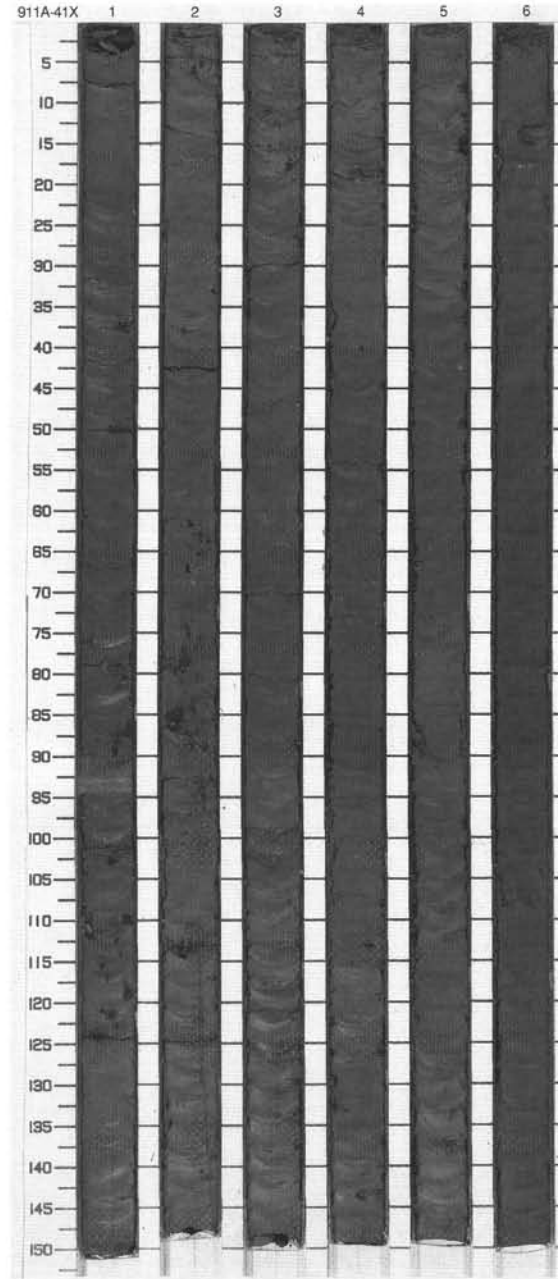
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		[Symbol]	WWW	P		<p>CLAYEY MUD</p> <p>Major Lithology: CLAYEY MUD, homogeneous, very dark gray (5Y 3/1), moderately bioturbated. White silt and black Fe-sulfide burrow fills are abundant, high inorganic carbonate amounts; first two sections are disturbed.</p>
2	[Symbol]	2		[Symbol]	WWW	P		
3	[Symbol]	3		[Symbol]	WWW	S		<p>Minor Lithologies: SILTY CLAY, homogeneous, very dark gray (5Y 3/1), moderately bioturbated. White silt and black Fe-sulfide burrow fills are abundant. Moderate amounts of inorganic carbonate.</p>
4	[Symbol]	4		[Symbol]	WWW	P		
5	[Symbol]	5		[Symbol]	WWW	P	5Y 3/1	<p>General Description: Dropstones: Section 1, 46 cm, Ø 1.0 cm, siltstone. Section 2, 114 cm, Ø 1.0 cm, siltstone; 138 cm, Ø 1.0 cm, siltstone. Section 3, 44 cm, Ø 1.0 cm, siltstone. Section 3, 59 cm, Ø 1.5 cm, siltstone. Section 6, 87 cm, Ø 2.0 cm, sandstone.</p>
6	[Symbol]	6		[Symbol]	WWW	P		
7	[Symbol]	7		[Symbol]	WWW	P		
8	[Symbol]	8		[Symbol]	WWW	S		
	[Symbol]	CC		[Symbol]	WWW	M		



SITE 911 HOLE A CORE 41X

CORED 380.4 - 390.0 mbsf

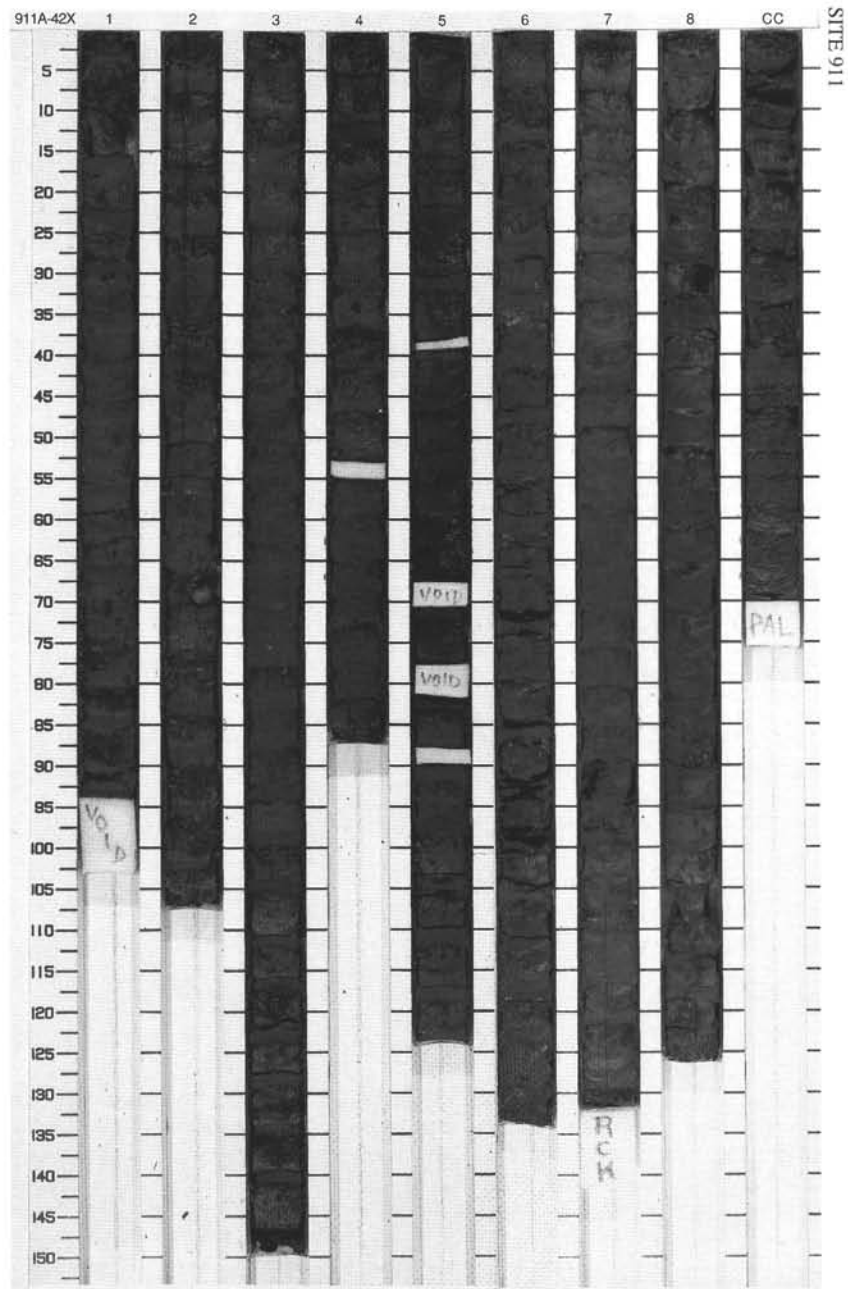
Meter	Graphic Lith.	Section Age	Structure	Disturbo	Sample	Color	Description
1	[Hatched pattern]	1	[Wavy structure]		P	5Y 3/1 To 2.5Y 5/2	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, very dark gray (5Y 3/1), moderate bioturbation. Burrow fills with white silt are common, borrow fills with black Fe sulfide are common. Burrows below Section 4 are much thinner (1.5 mm).</p> <p>Minor Lithology: CLAYEY SILT, homogeneous thin layer in Section 1, 93-95 cm, gray (2.5Y 5/2), moderately bioturbated, with high inorganic carbonate.</p> <p>General Description: Dropstone: Section 6, 14 cm, Ø 1.1 cm, gray siltstone.</p>
2	[Hatched pattern]	2	[Wavy structure]		S P		
3	[Hatched pattern]	3	[Wavy structure]		S		
4	[Hatched pattern]	3	[Wavy structure]		P		
5	[Hatched pattern]	4	[Wavy structure]		P	5Y 3/1	
6	[Hatched pattern]	4	[Wavy structure]		P		
7	[Hatched pattern]	5	[Wavy structure]		S		
8	[Hatched pattern]	6	[Wavy structure]		P		



SITE 911 HOLE A CORE 42X

CORED 390.0 - 399.6 mbsf

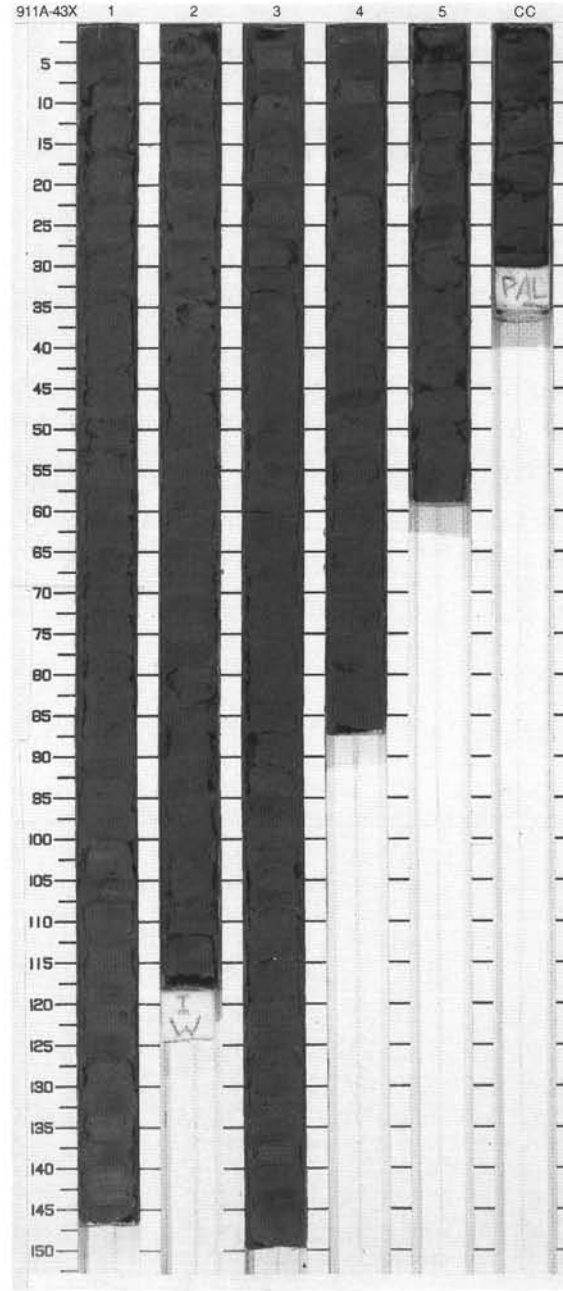
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	~	∇	S		SILTY CLAY Major Lithology: Very firm SILTY CLAY, very dark gray (5Y 3/1) to black (2.5Y 3/1). Drilling biscuits and splitting disturbance may hide faint changes in lithology. The upper part of the core is slightly bioturbated (quartz-filled burrows, fine-scaled sediment heterogeneities), the lower part is finer grained, darker, and much more homogeneous. General Description: Dropstone: Section 2, 69 cm, Ø 2 cm, weathered sandstone.
2		2	◇ ~	+	P		
3		3	~	+	P		
4		4	~	+	P		
5		5	}}	+	P	5Y 3/1 To 5Y 2.5/1	
6		6	}}	∇	P		
7		7	~	+	P		
8		8	~	+	P		
9		8	~	+	S		
10		CC	~	∇	M		



SITE 911 HOLE A CORE 43X

CORED 399.6 - 409.3 mbsf

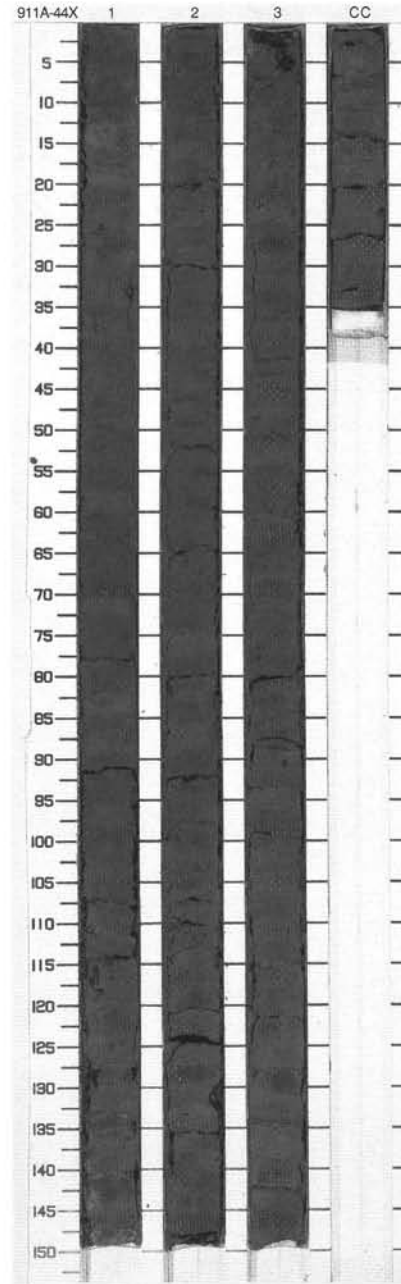
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Pliocene	[Wavy lines]	[Vertical lines]	P	5Y 3/1	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: SILTY CLAY and CLAYEY SILT, very dark gray (5Y 3/1), homogeneous, containing black burrows that are <2.0 mm wide and <1.0 cm long. Burrows are most abundant in Section 3. Major silt- and sand-sized grains are quartz and feldspar.</p> <p>Minor Lithology: CARBONATE SILTY CLAY, gray (5Y 5/1), occurs in burrows in Section 1, 100-104 cm. Inorganic calcite is clay and silt sized, comprising up to 40% of the sediment.</p> <p>General Description: Black concretions of Fe sulfides, typically <1.0 cm size, are sparsely scattered throughout; elongated concretions, up to 2.0 cm long, occur in Section 1, 50-53 cm.</p>
2	[Hatched pattern]	2				S P		
3	[Hatched pattern]	3				P		
4	[Hatched pattern]	4				S		
5	[Hatched pattern]	5				P I		
6	[Hatched pattern]	CC				P		
						M		



SITE 911 HOLE A CORE 44X

CORED 409.3 - 418.9 mbsf

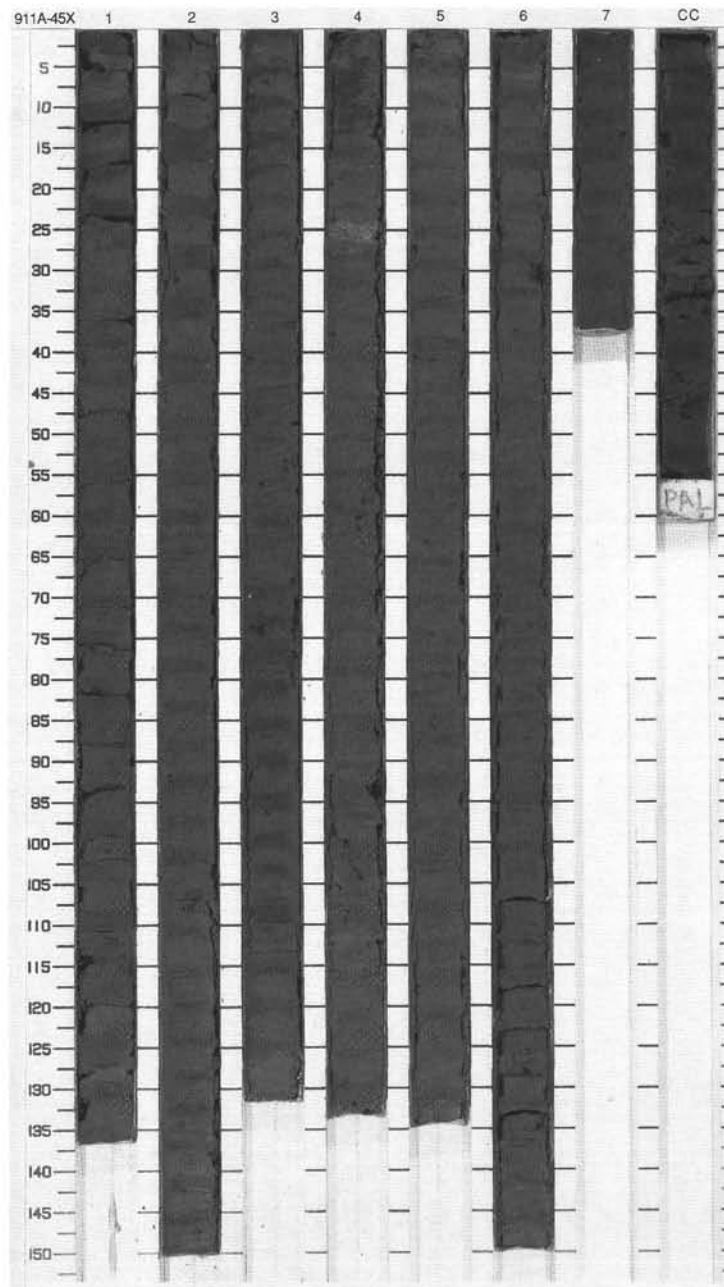
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Pliocene	[Wavy lines]	[Vertical lines]	P	5Y 3/1	SILTY CLAY and CLAYEY SILT Major Lithologies: SILTY CLAY and CLAYEY SILT, very dark gray (5Y 3/1), very firm, predominantly homogeneous. Slight bioturbation occurs in Section 1, 0-80 cm and in Section 3, 40-110 cm. Faint lamination is present in Section 2, 70-80 cm. A few black sulfide patches are scattered throughout the core. Bioturbated intervals seem to be slightly finer grained, but moderate fracturing makes identification of lithological changes difficult. One sand-filled burrow was found in Section CC, 10 cm.
						S		
						P		
						P		
2	[Hatched pattern]	2	Pliocene	[Wavy lines]	[Vertical lines]	P	5Y 3/1	
						P		
						P		
3	[Hatched pattern]	3	Pliocene	[Wavy lines]	[Vertical lines]	P	5Y 3/1	
						S		
4	[Hatched pattern]	CC	Pliocene	[Wavy lines]	[Vertical lines]	P	5Y 3/1	
						M		



SITE 911 HOLE A CORE 45X

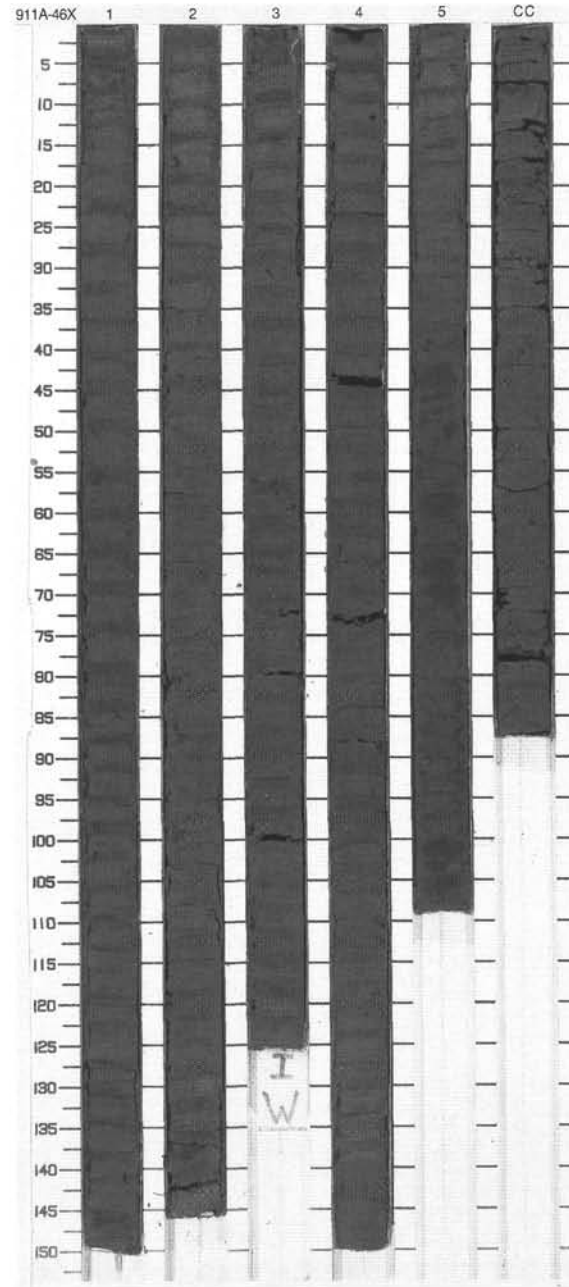
CORED 418.9 - 428.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched]	1	Pliocene	}		P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1) homogeneous except faint change in bioturbation or grain size. Slight bioturbation only marked by small siltier patches and very few pyrite-cemented burrows in most of the sections. Bioturbation is more visible in Section 5, with Zoophycos trace at 132 cm, as burrows contains lighter carbonate grains.</p> <p>Minor Lithologies: INORGANIC CARBONATES constitute thin layers in Section 4, 24–26.5 cm and Section 4, 133 cm to Section 5, 2 cm. The former one, light brownish gray (2.5Y 3/1) has rather sharp contacts and is strongly bioturbated. The second is more diffuse. CLAYEY MUD occurs as a single 45-cm-thick bed, more brownish very dark gray (10YR 3/1) Section 3, 69–115 cm. It is structureless with indistinct contacts and includes a few sandstone granules.</p> <p>General Description: The sediment is stiff to very stiff. Fractures appear within drilling biscuits in the lower sections.</p>
2	[Hatched]	2				S		
3	[Hatched]	3				P		
4	[Hatched]	4				P		
5	[Hatched]	5				S		
6	[Hatched]	6				P		
7	[Hatched]	7				P		
8	[Hatched]	8				S		
9	[Hatched]	9				P		
		CC				M		

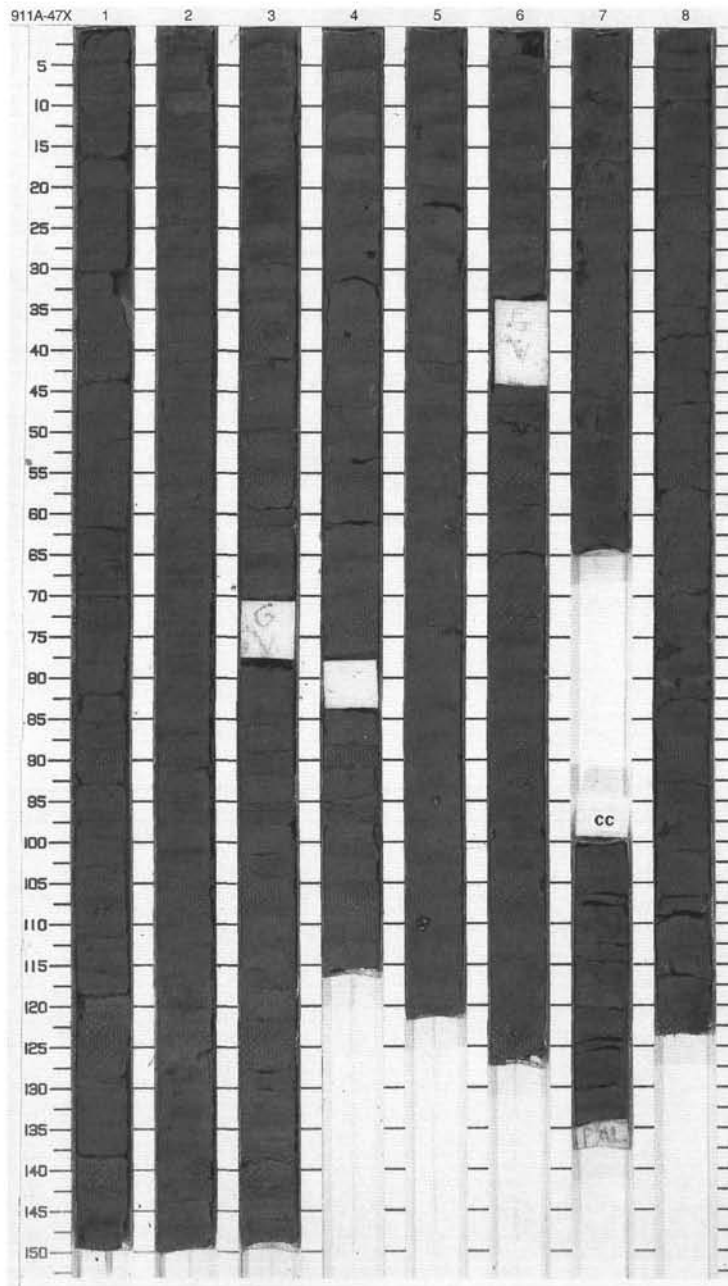


SITE 911 HOLE A CORE 46X CORED 428.6 - 438.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	Pliocene			P	5Y 3/1	<p>CLAY and SILTY CLAY</p> <p>Major Lithologies: CLAY to SILTY CLAY, very dark gray (5Y 3/1), is homogeneous with small black burrows scattered throughout the core. Black (5Y 2.5/1) concretions, Fe sulfide rich and $\phi < 1.0$ cm, and gray (5Y 5/1) sand-filled burrows are rare. Quartz and feldspar are the main silt- and sand-sized grains in CLAY to SILTY CLAY.</p> <p>Minor Lithologies: CLAYEY MUD, very dark gray (5Y 3/) and relatively homogeneous, occurs in Section 1, 77-79 cm. Top and bottom contacts are gradational. CARBONATE CLAY, olive (5Y 4/42), is in Section 1, 1-3 cm. It is bioturbated and has abruptly gradational top and bottom contacts.</p> <p>General Description: Sediment is firm in Sections 1-4, becoming very firm in Section 5 and CC.</p>
2	[Pattern]	2				S		
3	[Pattern]	3				P		
4	[Pattern]	4				P		
5	[Pattern]	5				S P		
6	[Pattern]					P		
7	[Pattern]					P		
8	[Pattern]					P		
9	[Pattern]					P		
10	[Pattern]	CC				M		

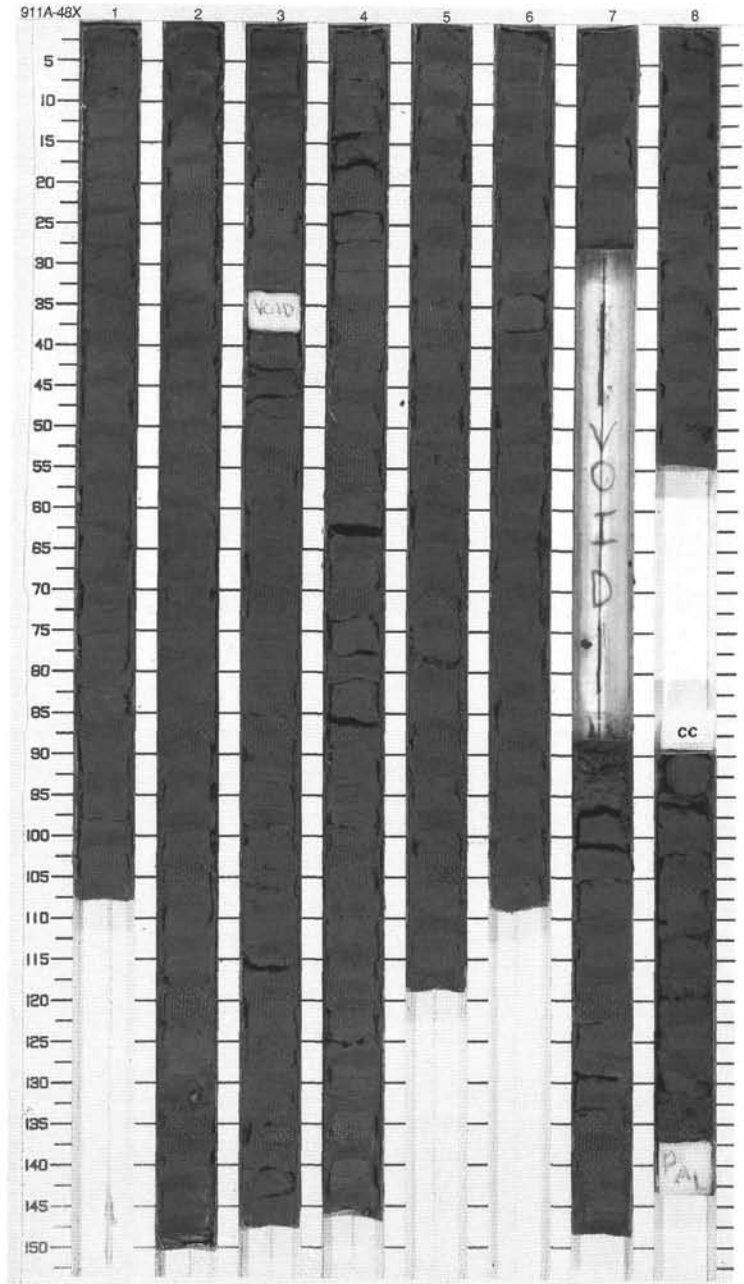


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Pliocene	}		S	5Y 3/1	<p>SILTY CLAY and CLAY</p> <p>Major Lithologies: SILTY CLAY and CLAY, very dark gray (5Y 3/1), very firm and predominantly homogeneous. Slight bioturbation is present in top of Section 1 and in short intervals in Sections 2, 3, 4, and 5. The sediment is predominantly SILTY CLAY in the upper five sections and CLAY below Section 5. Black sulfide patches in Sections 1 and 2. Up to cm-sized concretions occur in Sections 4 and 5.</p> <p>Minor Lithology: Layers of dark gray (5Y 4/1) CARBONATE-BEARING SILTY CLAY are present in Section 2, 0-8 and 121-132 cm. Both layers have sharp lower contacts and gradational upper contacts. Large, up to 2 cm, black sulfide patches occur within these layers.</p>
2	[Hatched pattern]	2				P		
3	[Hatched pattern]	3				S		
4	[Hatched pattern]	4				P		
5	[Hatched pattern]	5				P		
6	[Hatched pattern]	6				S		
7	[Hatched pattern]	7				P		
8	[Hatched pattern]	8				P		
9	[Hatched pattern]	9				S		
10	[Dotted pattern]	10				P		
	[Dotted pattern]	CC	M					



SITE 911 HOLE A CORE 48X CORED 447.8 - 457.5 mbsf

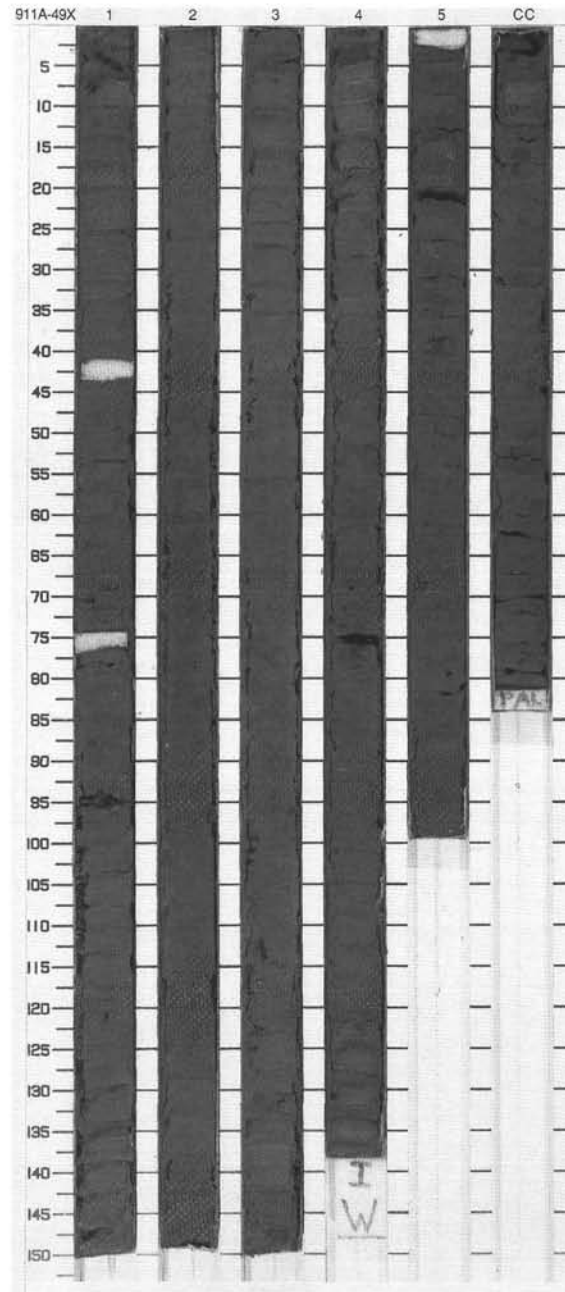
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched]	1		}}		S P		<p>CLAYEY SILT</p> <p>Major Lithology: Very homogeneous CLAYEY SILT, very dark gray (5Y 3/1). Very faint bioturbation. Smear slides document a slight downward grain-size increase.</p> <p>Minor Lithology: A 0.5-cm-thick layer of consolidated CLAY, very dark grayish brown (10YR 3/2) in Section 5, 79 cm.</p> <p>General Description: Dropstone: Between two drilling biscuits, Section 2, 132 cm, Ø 1.2 cm, angular sandstone.</p>
2	[Hatched]	2		}}		P		
3	[Hatched]	3		◇		P		
4	[Hatched]	4		}}		S P		
5	[Hatched]	4	Pliocene	}}		P	5Y 3/1	
6	[Hatched]	5		}}		P		
7	[Hatched]	5		}}		S P		
8	[Hatched]	6		}}		P		
9	[Hatched]	6		}}		P		
10	[Hatched]	7		}}		S		
11	[Hatched]	8		}}		P		
12	[Hatched]	8		}}		P		
13	[Hatched]	9		}}		S		
14	[Hatched]	9		}}		P		
15	[Hatched]	10		}}		P		
16	[Hatched]	10		}}		M		



SITE 911 HOLE A CORE 49X

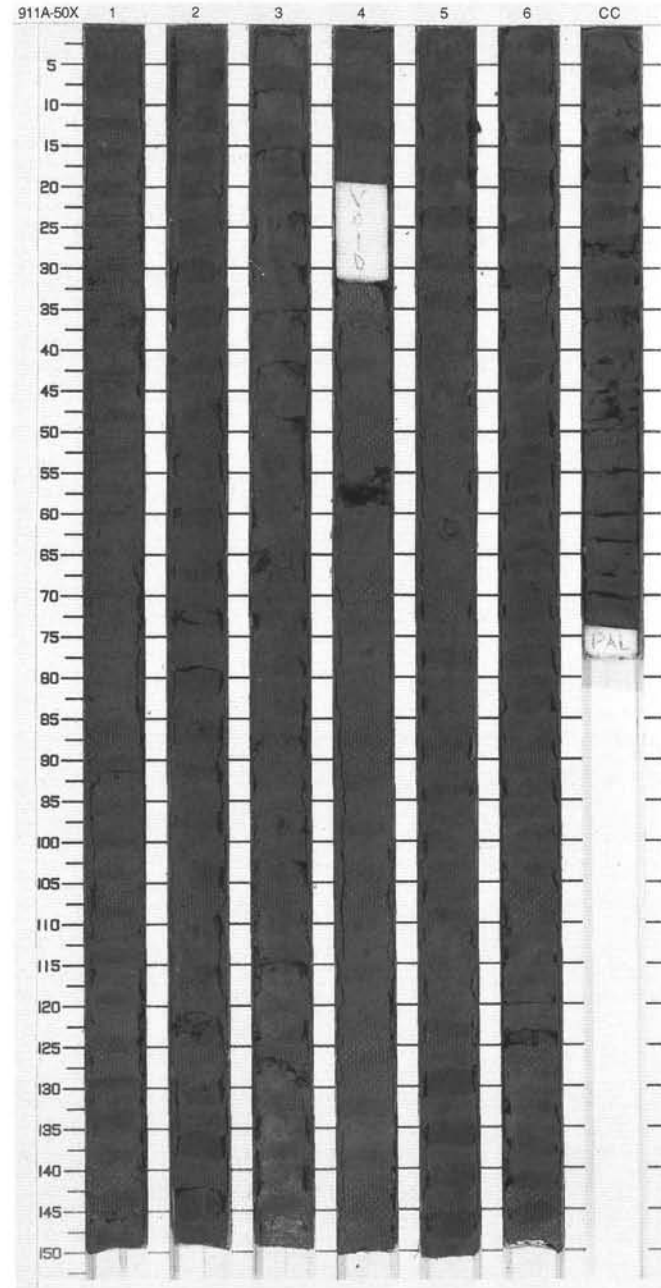
CORED 457.5 - 467.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1		(P)		P		<p>CLAY and SILTY CLAY</p> <p>Major Lithologies: CLAY and SILTY CLAY, dark gray (5Y 3/1), firm and homogeneous. Evidence for abundant bioturbation throughout the core includes: small black (5Y 2.5/1) burrows, mm size; dark gray to olive gray (5Y 4/1, 5Y 5/2) burrows, mm size, filled or outlined with carbonate-rich sediment; and rare, olive gray (5Y 5/2) burrows filled with sand sediment. Black concretions, Fe-sulfide-rich, are sparsely scattered throughout. Quartz and feldspar are the major silt- and sand-sized grains.</p> <p>Minor Lithology: CARBONATE CLAY, dark gray (5Y 4/1), occurs in Section 3, 39-44 cm. It is bioturbated and has gradational top and bottom contacts. Inorganic calcite comprises up to 40% of the sediment.</p> <p>General Description: Black, Fe-sulfide-rich concretions, Ø >1.0 cm: Section 1, 70 and 87 cm. Section 3, 111 and 131 cm. Section 4, 76 cm.</p>
2	[Dotted pattern]	2				P		
3	[Dotted pattern]	3				S		
4	[Dotted pattern]	3				P		
5	[Dotted pattern]	4		(P)		P		
6	[Dotted pattern]	4		(P)		S		
7	[Dotted pattern]	5			www	P		
	[Dotted pattern]	5				S		
	[Dotted pattern]	CC				P		
	[Dotted pattern]					M		



SITE 911 HOLE A CORE 50X CORED 467.2 - 476.8 mbsf

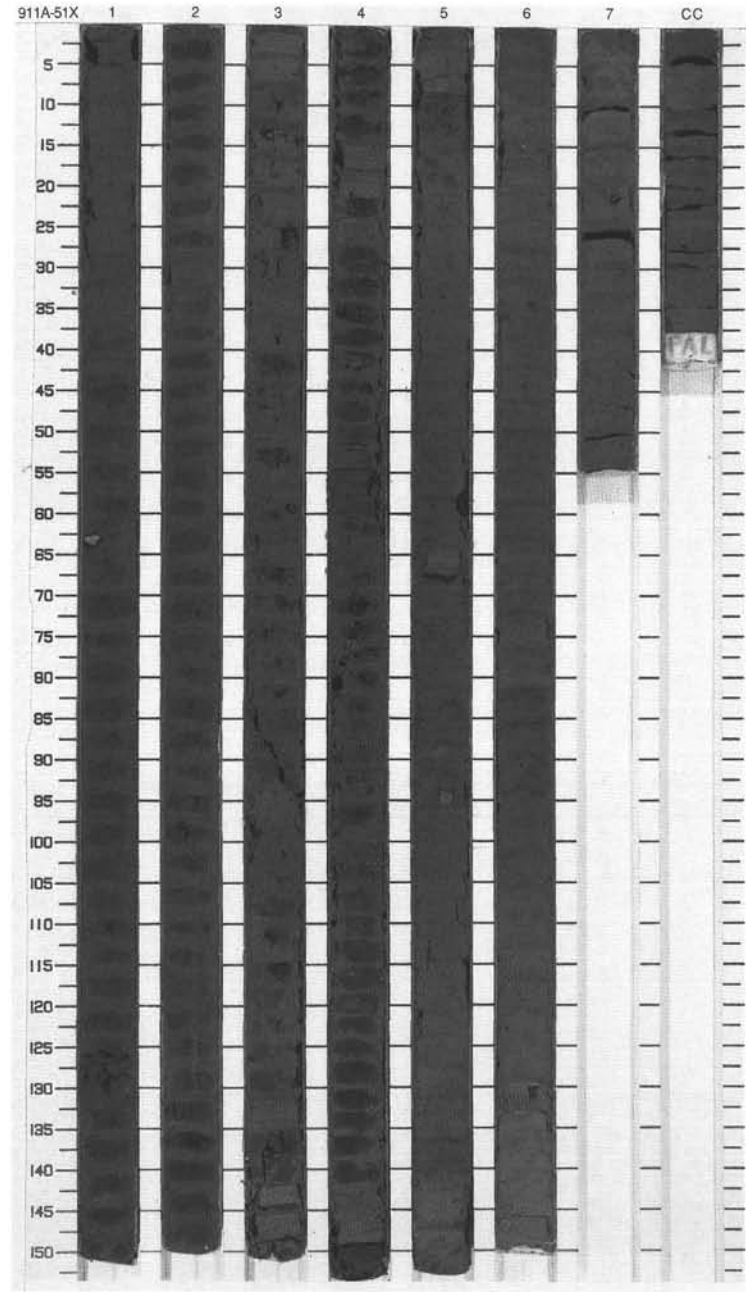
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	}}		P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, very dark gray (5Y 3/1), moderate bioturbation, moderate inorganic carbonate particle amounts are present.</p> <p>General Description: Dropstones: Section 5, 65 cm, Ø 1.0 cm, siltstone; 112 cm, Ø 1.0 cm, siltstone.</p>
2	[Hatched pattern]	2	}}		S P		
3	[Hatched pattern]	3	}}		P		
4	[Hatched pattern]	4	}}		S P	5Y 3/1	
5	[Hatched pattern]	5	}}		P		
6	[Hatched pattern]	6	}}		P		
7	[Hatched pattern]	7	}}		P		
8	[Hatched pattern]	8	}}		P		
9	[Hatched pattern]	9	}}		P		
	[Hatched pattern]	CC	}}		M		



SITE 911 HOLE A CORE 51X

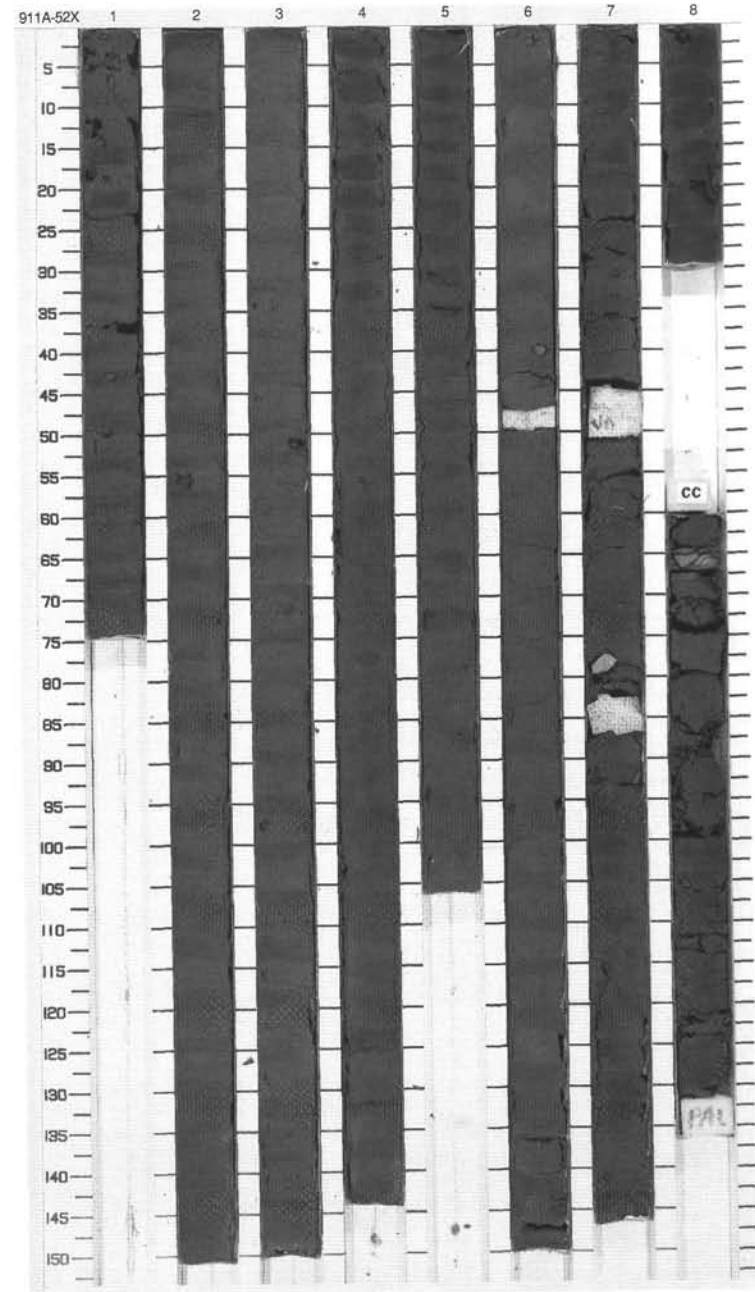
CORED 476.8 - 486.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		~	+	P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, very dark gray (5Y 3/1), slightly to moderately bioturbated. Black, Fe-sulfide burrow fills are common; white silt burrow fills are rare; disseminated sulfide and sulfide concretions are present.</p> <p>Minor Lithology: SILTY MUD, homogeneous, very dark gray (10YR 3/1), moderately bioturbated, in Section 5, 82-87 cm.</p> <p>General Description: Dropstones: Section 1, 63 cm, Ø 22.1 cm, basalt, Section 2, 99 cm, Ø 1.0 cm, black sulfide, Section 7, 21 cm, Ø 1.0 cm, sandstone.</p>
2	[Hatched pattern]	2		~	+	S		
3	[Hatched pattern]	2		~	+	P		
4	[Hatched pattern]	3		~	+	P	5Y 3/1	
5	[Hatched pattern]	3		~	+	S		
6	[Hatched pattern]	4	Pliocene	~	+	P		
7	[Hatched pattern]	5		~	+	P	5Y 3/1 To 10YR 3/1	
8	[Hatched pattern]	6		~	+	S		
9	[Hatched pattern]	6		~	+	P	5Y 3/1	
	[Hatched pattern]	7		~	+	P		
	[Hatched pattern]	CC		~	+	M		

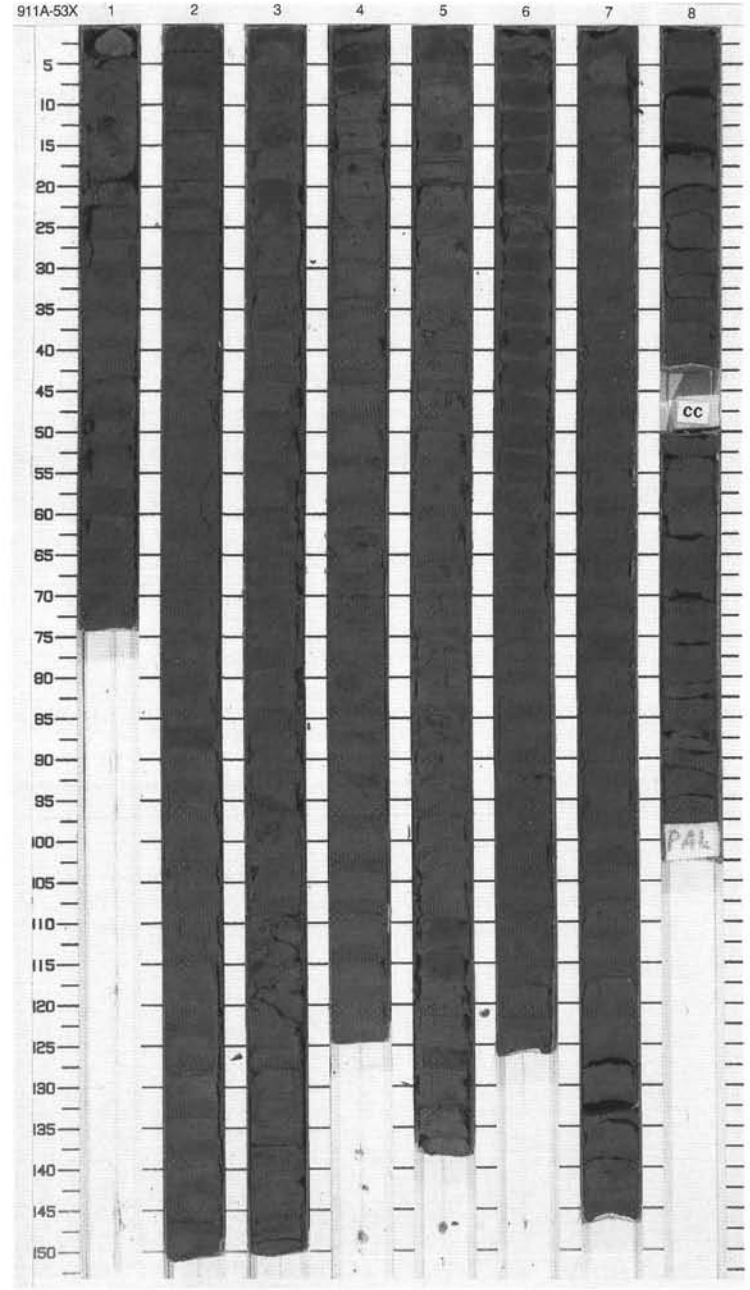


SITE 911 HOLE A CORE 52X CORED 486.5 - 496.2 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	◇		P		<p>SILTY CLAY and CARBONATE-BEARING CLAY</p> <p>Major Lithologies: SILTY CLAY and CARBONATE-BEARING CLAY, very dark gray (5Y 3/1), in biscuitied sediment. Biscuits range from 2.4-5.0 cm in height, with intrabiscuit slurry 1.2-4.5 cm thick. Biscuits are always larger than the adjacent slurry. Visually it is not possible to distinguish the two lithologies. A slightly coarser layer is present in Section 6, 117-150 cm. White colored sand and silt-filled burrows are rare. Most bioturbation is identified by thin (<1-mm) black lines. A clast in Section 7, 97 cm, is dominantly coarse carbonate.</p> <p>General Description: A pale olive (5Y 6/3), carbonate concretion, 4 x 8 cm, in Section CC, 5-10 cm.</p> <p>Dropstones: Section 1, 42 cm, Ø 1.4 cm, sulfur-bearing plutonic. Section 2, 55 cm, Ø 1.9 cm, vuggy plutonic, with carbonate and unidentified pale green mineral. Section 3, 51 cm, Ø 1.3 cm, plutonic. Section 6, 39 cm, Ø 1.6 cm, fine-grained plutonic. Section 8, 28 cm, Ø 1.3 cm, igneous.</p>
2		2	◇		P		
3		3	◆		P		
4		4			P		
5		5			S	5Y 3/1	
6		6			S		
7		7	◇		S P		
8		8			S		
9		8	◇		P		
10		CC	⊙		M		



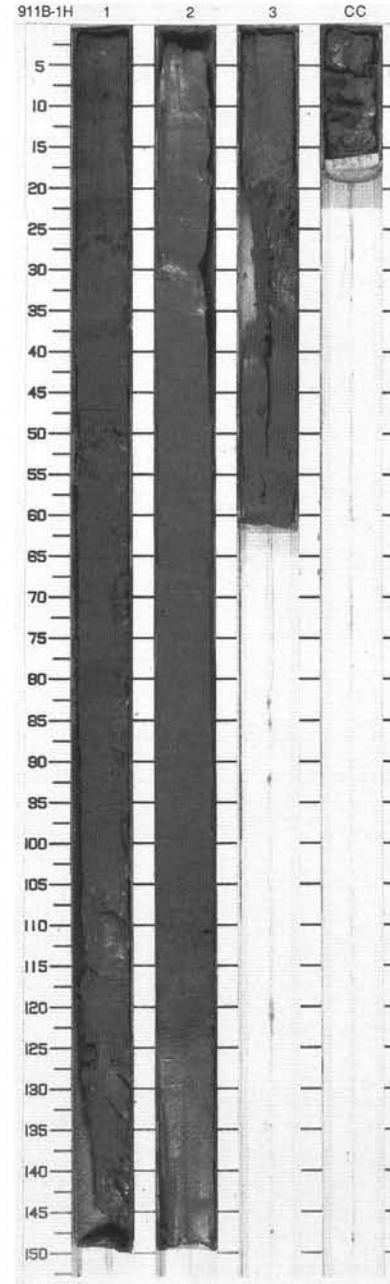
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1			}}		S		<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1) SILTY CLAY. Quartz (~20%) and feldspar (~10%) are the important non-clay constituents.</p> <p>General Description: A caution sticker indicates some disturbance during the handling of this core. The sediment is very firm, and disturbed into 2-5-cm drilling biscuits. Bioturbation is apparent to a variable degree in a mottled surface and individual filled burrows.</p> <p>Dropstone: Section 5, 38 cm, Ø 1.1 cm, quartz.</p>
1			}}		P		
2			}}				
2			}}		P		
3			}}				
3			}}		P		
4			}}		P		
4		Pliocene	Ⓟ		P		
5			}}		P	5Y 3/1	
5			}}		P		
6			}}				
6			}}		P		
7			}}				
7			Ⓟ		P		
7			}}		P		
8			}}				
8			}}				
8			}}		M		



SITE 911 HOLE B CORE 1H

CORED 0.0 - 3.8 mbsf

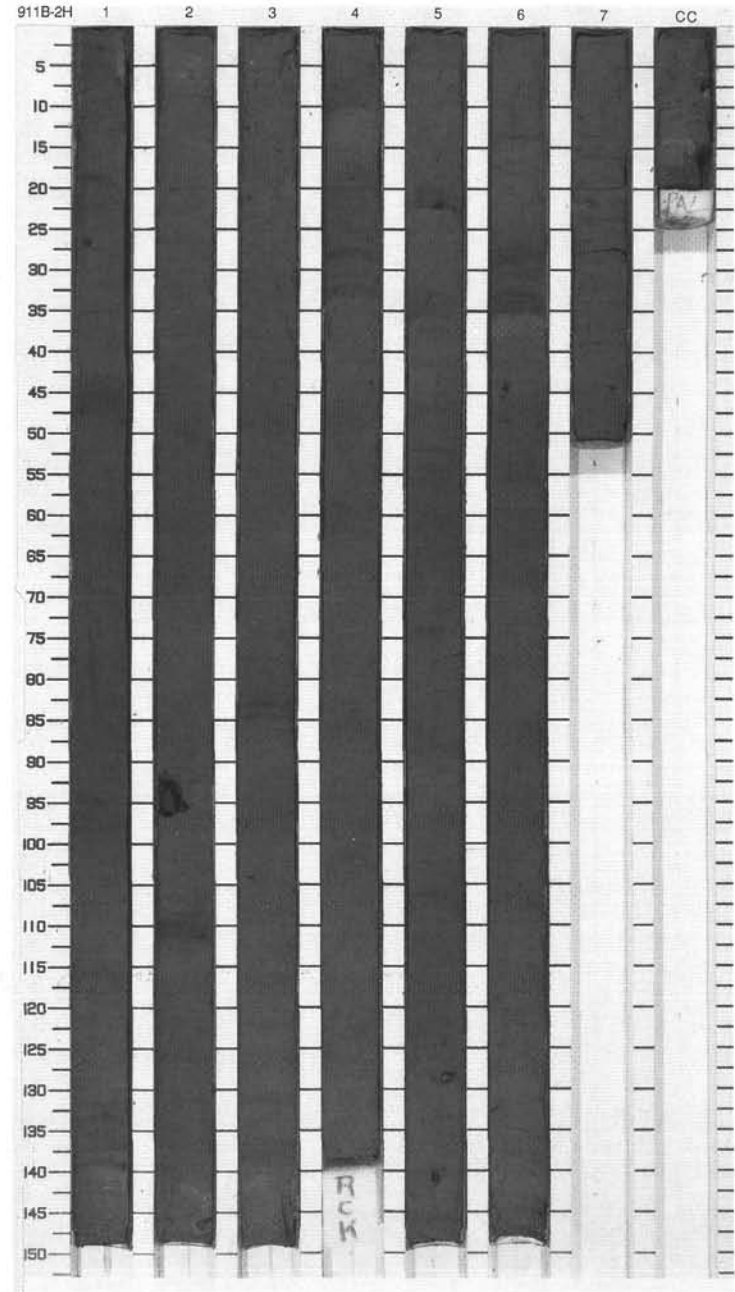
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1			G P S	5Y 4/1 To 5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, in color bands and cycles from 15 to 100 cm long, mostly longer. Colors grade from very dark gray (5Y 3/1) at the base, with olive gray (5Y 4/2) bands in the middle to dark gray (5Y 4/1) and even gray (5Y 5/1) at the top. The olive gray bands extend from 1 single cm to an interbanded area of 5 cm in Section 1. Some olive gray layers are slightly coarser. Black mottles are present throughout.</p> <p>Minor Lithologies: CLAY, very dark grayish brown (10YR 3/2), Section 1, 0–20 cm, and gray (5Y 5/1), Section 1, 143 cm to Section 2, 15 cm. CARBONATE SILTY CLAY, in a single olive gray (2.5Y 4/2) layer, Section 2, 68–71 cm. CLAYEY MUD, in a color-banded stiffer layer in Section 2, 101–123 cm. Colors include very dark gray (5Y 3/1), dark gray (5Y 4/1), and olive gray (2.5Y 4/2).</p> <p>General Description: Dropstone: Section 1, 125 cm, Ø 2 cm, flat, black metamudstone.</p>
2		2 Quaternary			P S P	5Y 4/1 To 5Y 3/1	
3		3			P M	5Y 4/1	



SITE 911 HOLE B CORE 2H

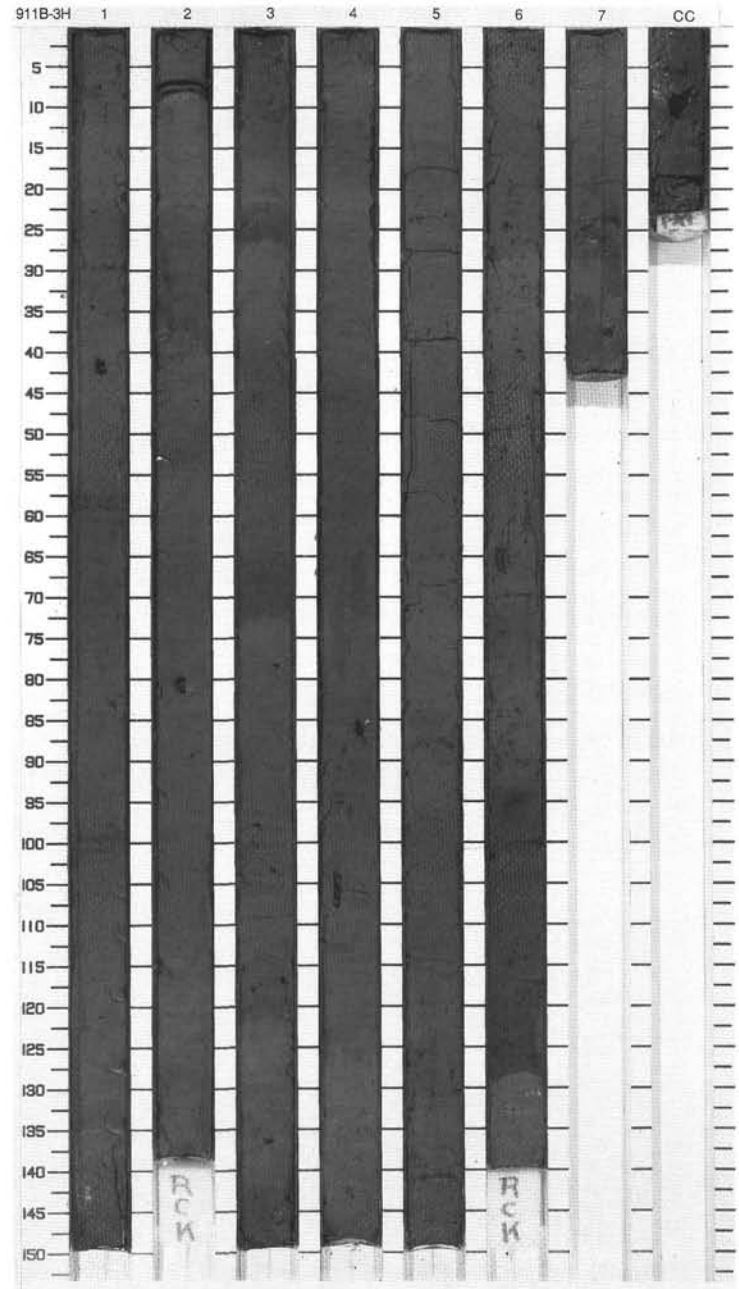
CORED 3.8 - 13.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		[Symbol]		P	5Y 4/1 To 2.5Y 4/2	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, variable color dark gray (5Y 4/1), dark grayish brown (2.5Y 4/2) and olive gray (5Y 4/2), slight to moderate bioturbation, thin coarser layers with gradational contact often mottled where color change exists.</p> <p>Minor Lithologies: SILTY MUD, olive gray (5Y 4/2) to dark gray (5Y 4/1); slight to moderate bioturbation, coarser layers (10 cm thick) with gradational contacts, often mottled at top, present in Sections 4 and 5. CLAY, dark gray (5Y 3/2), slightly bioturbated, black Fe-sulfide burrow fills are common, present in Section 6.</p> <p>General Description: Dropstones occur at: Section 2, 93 cm, Ø 3.2 cm, siltstone. Section 5, 129 cm, Ø 1.5 cm, siltstone. Section 6, 44 cm, Ø 1.5 cm, siltstone.</p>
2	[Symbol]	2		[Symbol]		P	5Y 4/1 To 10YR 3/3	
3	[Symbol]	3		[Symbol]		P	5Y 4/1 To 2.5Y 4/2	
4	[Symbol]	3		[Symbol]		P	5Y 4/1 To 2.5Y 4/2	
5	[Symbol]	4	Quaternary	[Symbol]		P	5Y 3/2 To 10YR 3/1	
6	[Symbol]	4	Quaternary	[Symbol]		P	5Y 3/2 To 10YR 3/1	
7	[Symbol]	5		[Symbol]		W S P P P	5Y 4/1 To 5Y 3/1	
8	[Symbol]	6		[Symbol]		S P	5Y 3/1 To 2.5Y 4/2	
9	[Symbol]	7		[Symbol]			5Y 3/2	
CC	[Symbol]	CC		[Symbol]		I M		

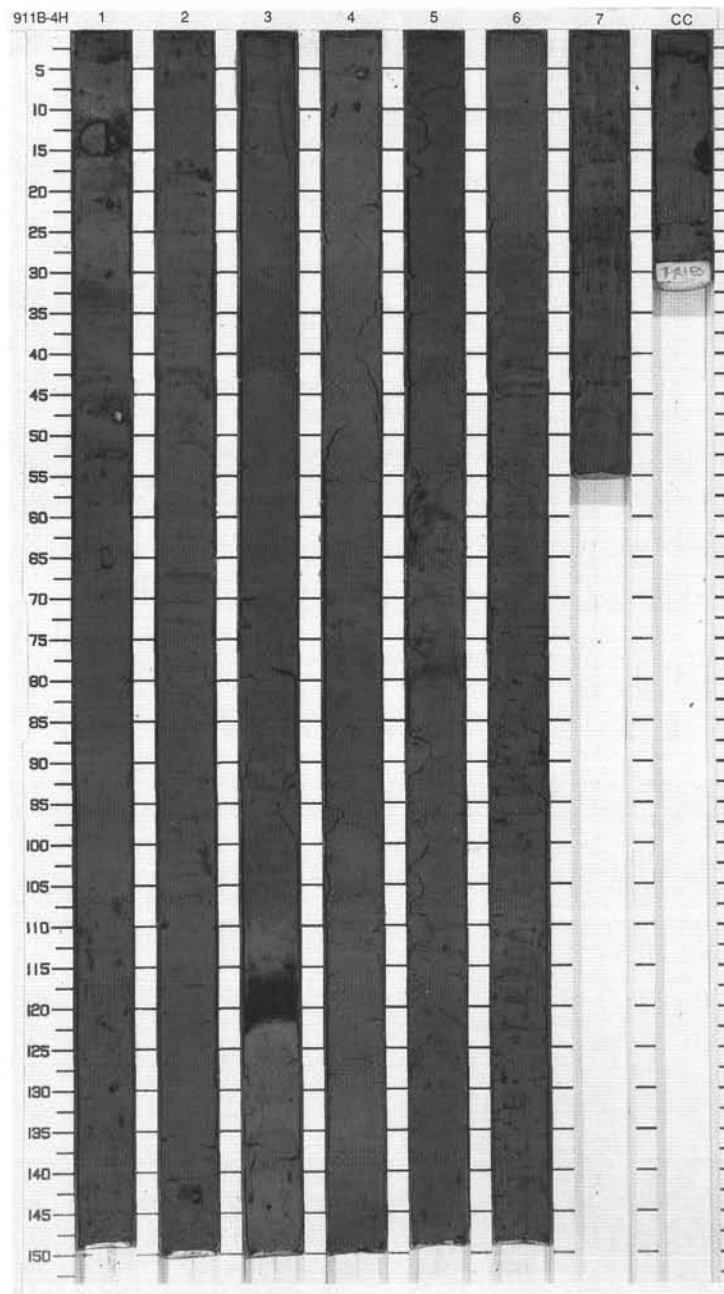


SITE 911 HOLE B CORE 3H CORED 13.3 - 22.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Quaternary	[Symbol]		P	5Y 3/1	<p>SILTY CLAY and SILTY MUD</p> <p>Major Lithologies: SILTY CLAY, homogeneous to moderately bioturbated, very dark gray (5Y 3/1, 10YR 3/1) and dark gray (5Y 4/1) with numerous color bands in black (2.5YR N2/0) and very dark grayish brown (2.5Y 3/2). Color bands have gradational contacts, thicknesses up to 10 cm and no obvious relations to grain size. Strong mottling due to bioturbation is present throughout the core. Up to 5-cm-large black patches of Fe sulfides are common in Sections 5 and 6. In all other sections smaller sulfide patches are present in some intervals. Two fining-up sequences with sharp bases and gradational upper contacts are found in Section 3. These sequences are characterized by a high abundance of coarse sand grains (silty mud), decreasing towards the top.</p> <p>Minor Lithologies: One layer of very dark gray (10YR 3/1) SANDY MUD with a fining-upward trend and a sharp base is present in Section 6, 90-130 cm. Underlying this is a 10-cm layer of dark gray (5Y 4/1) CLAY. A 1-cm-thick SAND layer with sharp contacts occur in Section 1, 8-9 cm.</p> <p>General Description: Dropstones 1 cm are present in: Section 1, 42 cm, Ø 1.5 cm, coal. Section 2, 81 cm, Ø 1.0 cm, crystalline rock. Section 4, 85 cm, Ø 1.0 cm, coal. Section CC, 10 cm, Ø 2.3 cm, olivine basalt.</p>
2	[Symbol]	2		[Symbol]		S	5Y 4/1	
3	[Symbol]	3		[Symbol]		P	5Y 3/1	
4	[Symbol]	4		[Symbol]		S	10YR 3/1	
5	[Symbol]	5		[Symbol]		P	5Y 3/1	
6	[Symbol]	6		[Symbol]		S	5Y 4/1	
7	[Symbol]	7		[Symbol]		P	5Y 3/1	
8	[Symbol]	8		[Symbol]		S	10YR 3/1	
9	[Symbol]	9		[Symbol]		P	5Y 4/1	
CC	[Symbol]	CC		[Symbol]		M	5Y 3/1	

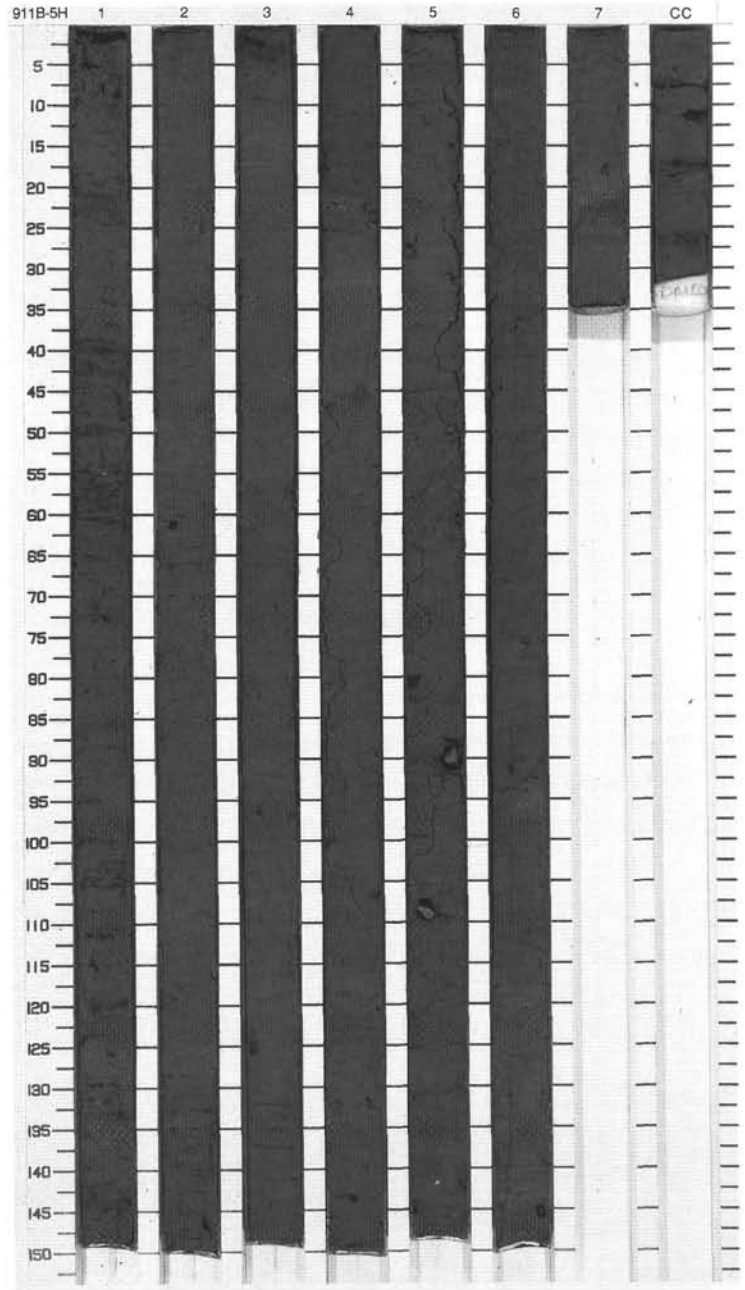


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Quaternary	◇ ≫		P	5Y 3/1	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: Very dark gray (5Y 3/1) SILTY CLAY and CLAYEY SILT, with numerous small dropstones (<1 cm) and mm-sized sulfide concretions, occurs from top of core to Section 2, 132 cm; in Section 3, 0–22 cm; from Section 3, 110 cm to Section 4, 65 cm; in Section 4, 90–150 cm; from Section 5, 40 cm to Section 6, 18 cm; and from Section 6, 44 cm to bottom of core.</p> <p>Minor Lithology: Massive very dark gray (10Y 3/1) CLAYEY MUD occurs in Section 2, 132–150 cm; Section 3, 22–110 cm; Section 4, 66–90 cm; Section 5, 0–40 cm; Section 6, 18–42 cm.</p> <p>General Description: Dropstones: Section 1, 48 cm, Ø 1.5 cm, quartz; 64 cm, Ø 2.0 cm, shale. Section 2, 142 cm, Ø 1.2 cm, dark crystalline rock. Section 4, 5 cm, Ø 1.0 cm, shale.</p> <p>Mud clasts: Section 1, 13 cm, Ø 4.0 cm, with coal and foraminifers; 100 cm, Ø 1.0 cm, with sand.</p>
2	[Symbol]	2	Quaternary	◇ ≫		S	5Y 3/1 To 10Y 3/1	
3	[Symbol]	3	Quaternary	◇ ≫		P	5Y 3/1	
4	[Symbol]	4	Quaternary	◇ ≫		S	10Y 3/1	
5	[Symbol]	5	Quaternary	◇ ≫		S		
6	[Symbol]	6	Quaternary	◇ ≫		P		
7	[Symbol]	7	Quaternary	◇ ≫		P	5Y 3/1	
8	[Symbol]	8	Quaternary	◇ ≫		P		
9	[Symbol]	9	Quaternary	◇ ≫		P		
CC	[Symbol]	CC		⊙ ≫		M		



SITE 911 HOLE B CORE 5H CORED 32.3 - 41.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1		[Symbol]		P		<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: SILTY CLAY and CLAYEY SILT, very dark gray (5Y 3/1), generally contain black (5Y 2.5/1) pockets of fine Fe sulfides of mm size in Sections 1 to 3. Black, incipient concretions are typically <1 cm in size and may be concentrated in layers. Rare mollusk fragments are in Sections 1 and 3. In Sections 4 to CC, SILTY CLAY and CLAYEY SILT lack the black pockets and have rare black concretions. Color bands of dark greenish gray (5GY 4/1) are present in Sections 6 and 7. Quartz and feldspar are the main silt- and sand-sized grains.</p> <p>Minor Lithologies: SILTY MUD, very dark gray (5Y 3/1), Section 2, 20-63 cm and Section 3, 56 cm to Section 4, 21 cm, is homogeneous and interbedded with a few thin layers of clayey silt. Very dark gray (5Y 3/1), sandy pockets are rare and partly indurated. CARBONATE SILTY MUD, dark gray (5Y 4/1) is present as a layer in Section 4, 21-23 cm and irregular pockets in Section 6, 91-101 cm. Inorganic calcite comprises up to 25% of the sediment.</p> <p>General Description: Dropstones: Section 5, 49 cm, Ø 1 cm, sandstone; 89 cm, Ø 1.5 cm, siltstone; 107 cm, Ø 2 cm, sandstone. Section 6, 76 cm, Ø 1 cm?</p>
2	[Pattern]	2		[Symbol]		P	5Y 3/1 To 5Y 2.5/1	
3	[Pattern]	3		[Symbol]		S		
4	[Pattern]	3		[Symbol]		P		
5	[Pattern]	4	Quaternary	[Symbol]		S		
6	[Pattern]	4		[Symbol]		S		
7	[Pattern]	5		[Symbol]		P	5Y 3/1	
8	[Pattern]	6		[Symbol]		P		
9	[Pattern]	7		[Symbol]		S		
CC	[Pattern]	CC		[Symbol]		P		
						M		

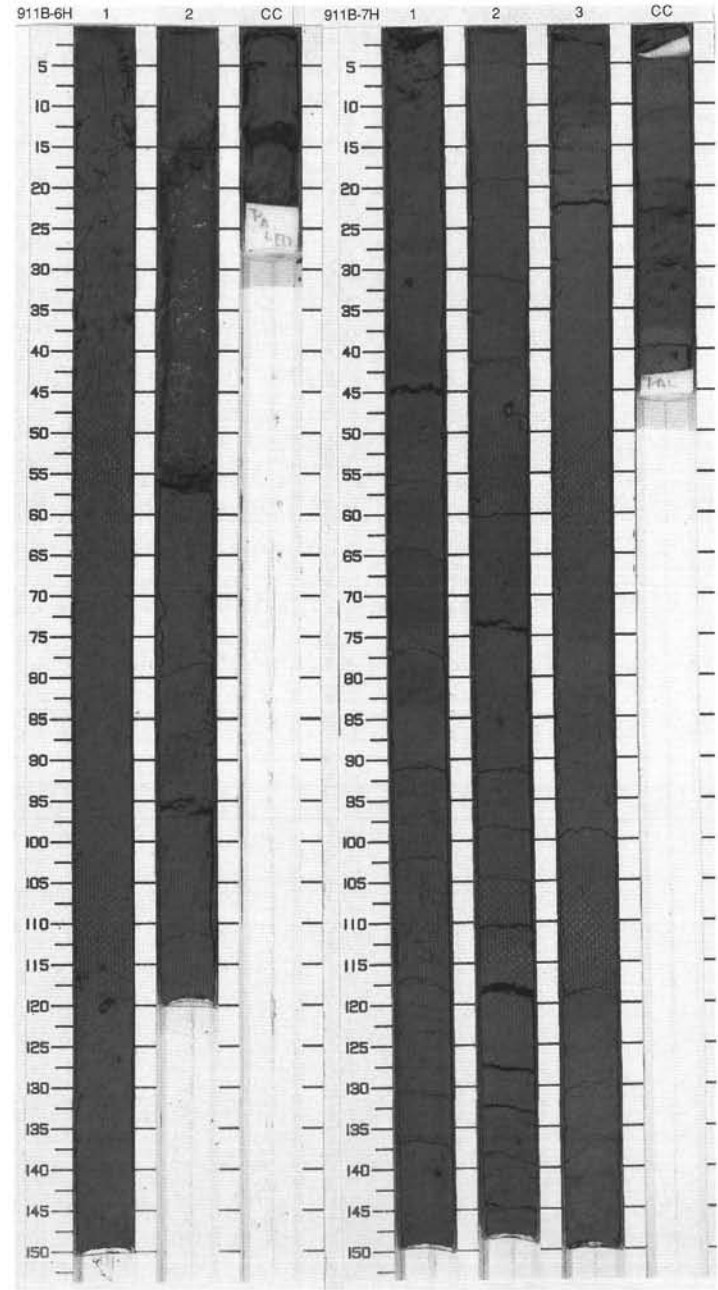


SITE 911 HOLE B CORE 6H CORED 41.8 - 44.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Quaternary	[Symbol]	w w w	S P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1), homogeneous to slightly bioturbated SILTY CLAY. Sand-filled burrows are found in Section 1, 115-120 cm and Section 2, 60-70 cm. Mm-sized concretions are present throughout the core. One large concretion, Ø 1.0 cm, occurs in Section 1, 119 cm. Sand- and silt-sized grains include quartz, feldspar, inorganic calcite, accessory minerals, opaques, and glauconite.</p>
2		2						
		CC			W	M		

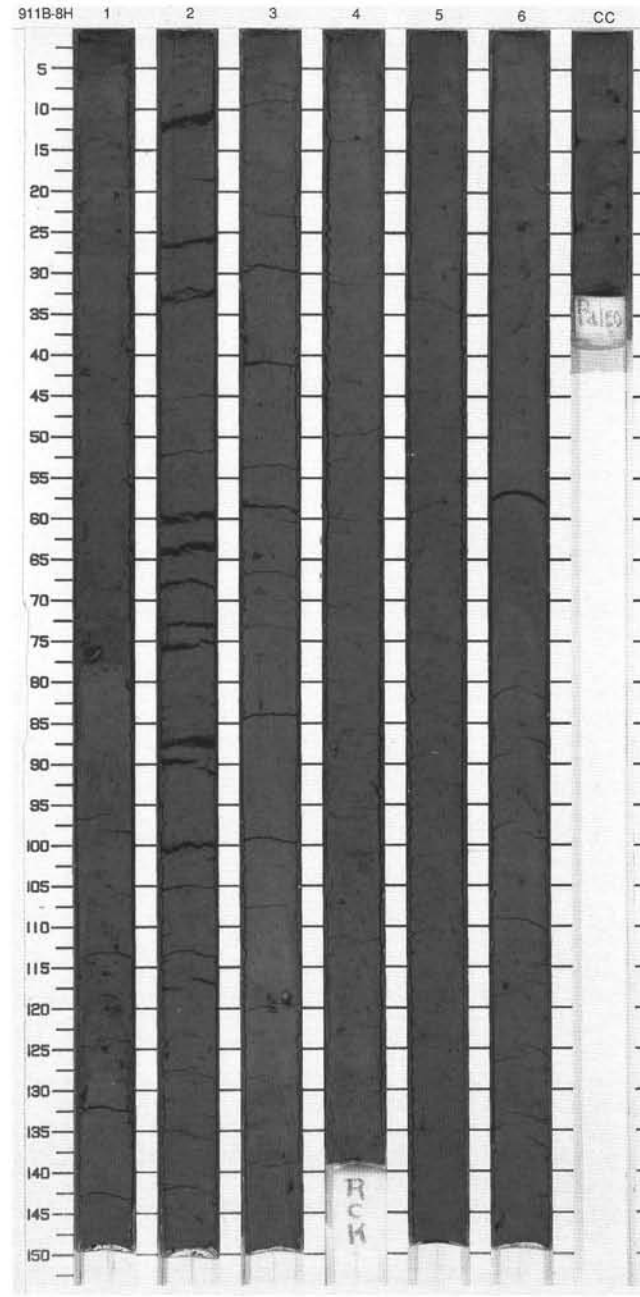
SITE 911 HOLE B CORE 7H CORED 44.8 - 49.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Quaternary	[Symbol]	O	S	5Y 3/1 To 10YR 3/1	<p>CLAYEY SILT, SILTY CLAY and CLAYEY MUD</p> <p>Major Lithologies: SILTY CLAY very dark gray (5Y 3/1) with greenish or brownish shades and indistinct sulfide dark patches. CLAYEY SILT very dark gray (5Y 3/1), more homogeneous includes sulfide specks more or less grouped along distinct levels. CLAYEY MUD, very dark brownish gray (10YR 3/1) poorly sorted includes a few granules and soft mud clasts over a short gradational basal contact.</p>
2		2						
3		3				P	5Y 3/1	
		CC				S M		



SITE 911 HOLE B CORE 8H CORED 49.8 - 59.3 mbsf

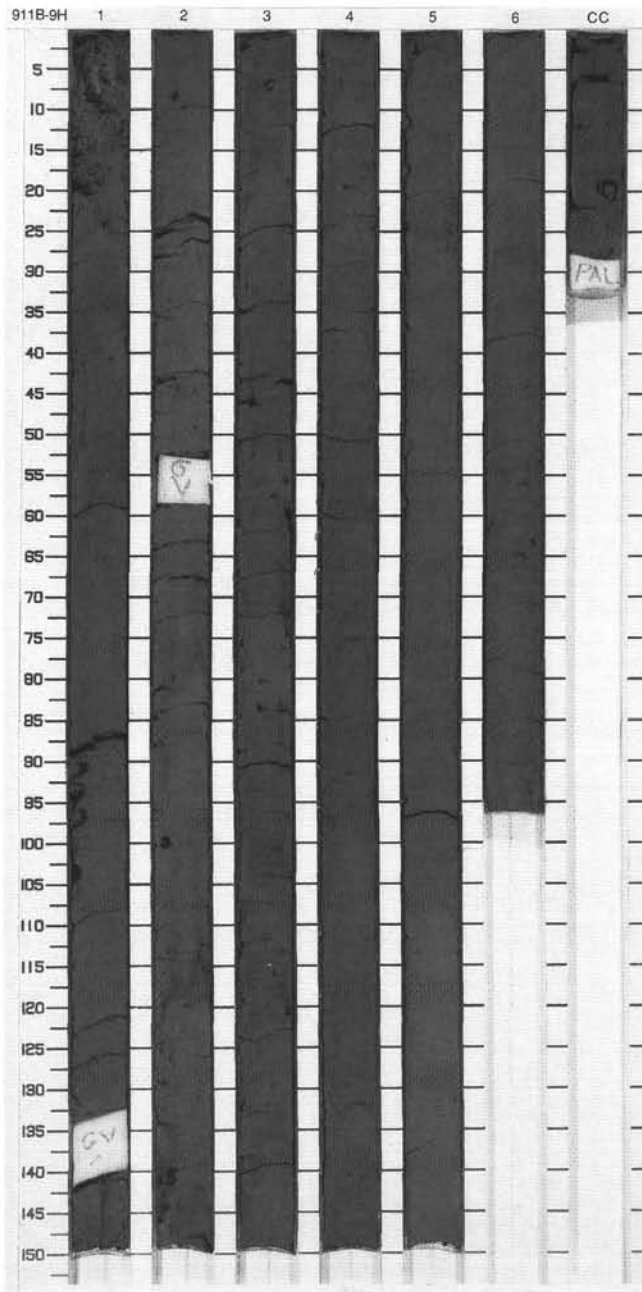
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		} = = =		P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: The core consists of SILTY CLAY with small changes in the sand content (2%–10%). According to faint changes in colors or in the split surface roughness the majority of the core consists of very dark gray (5Y 3/1) SILTY CLAY with dark sulfide pods scattered or concentrated along the bedding and very few sandy pockets and granules. Finer grained silty clays are more homogeneous and slightly lighter and show diffuse sulfide dark patches. Two layers, Section 1, 73–77 cm, Section 6, 57–70 cm, very dark (brownish) gray (10YR 3/1) show in places coarse grains. The former includes a dropstone.</p> <p>Minor Lithologies: Dropstone : Section 1, 77 cm, Ø 1.3 cm, flat rounded sandstone.</p> <p>General Description: Moderate flow-in structure occurs throughout the core.</p>
2	[Hatched pattern]	2		} = = =		P	5Y 3/1 To N3	
3	[Hatched pattern]	3		}		P	5Y 3/1 To N3	
4	[Hatched pattern]	4	Quaternary	- - -		P	5Y 4/1	
5	[Hatched pattern]	5		}		P	5Y 3/1	
6	[Hatched pattern]	6		} = = =		S	5Y 3/1	
7	[Hatched pattern]	7		}		S P	5Y 3/1	
8	[Hatched pattern]	8		}		S	5Y 3/1	
9	[Hatched pattern]	9		}		P	5Y 3/1	
	[Hatched pattern]	CC				M		



SITE 911 HOLE B CORE 9H

CORED 59.3 - 68.0 mbsf

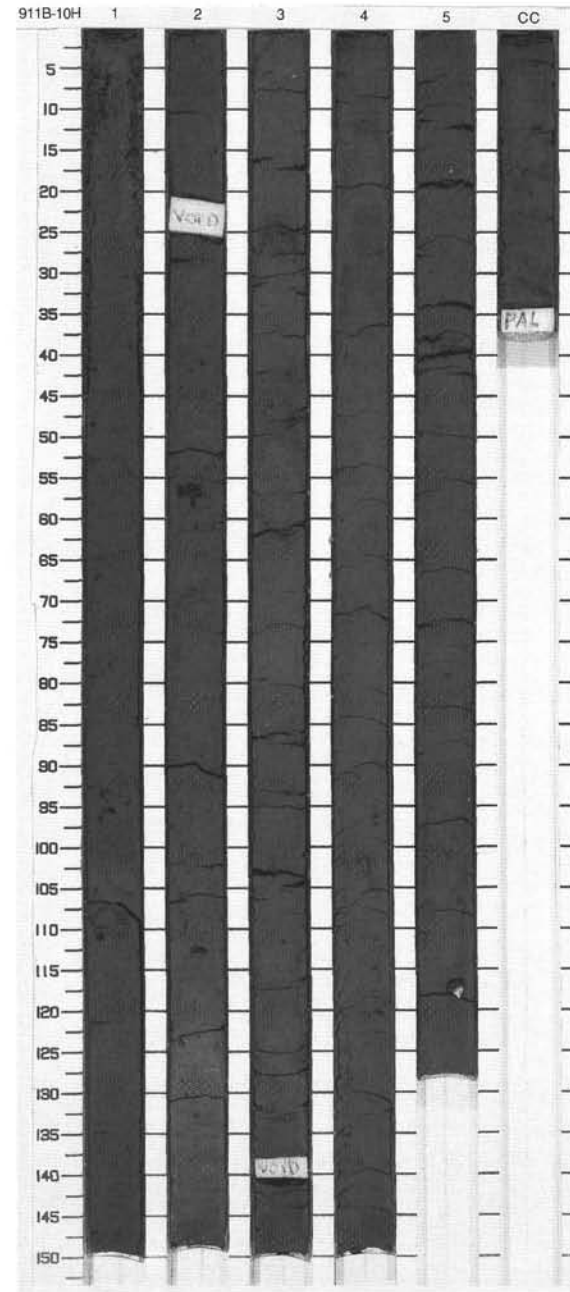
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched]	1	Quaternary	}}	!	S		<p>CLAYEY SILT, SILTY CLAY and CARBONATE-BEARING SILTY CLAY</p> <p>Major Lithologies: Core is dominated by massive, very dark gray (5Y 3/1) CLAYEY SILT and SILTY CLAY, from top of core to Section 2, 15 cm; Section 2, 76-141 cm; Section 3, 74 cm to Section 4, 35 cm; Section 4, 86 cm to Section 5, 26 cm; Section 6, 26 cm to bottom of core. Lithology has common mm-size disseminated pyrite concretions. Very dark gray to dark greenish gray (5Y 3/1 to 5GY 4/1) CARBONATE-BEARING SILTY CLAY occurs in Section 2, 14-76 cm; Section 4, 34-86 cm; and from Section 5, 26 cm to Section 6, 26 cm. Disseminated pyrite concretions are less common in this lithology.</p> <p>Minor Lithology: Very dark gray (5Y 3/1) CARBONATE-BEARING CLAYEY MUD occurs from Section 2, 141 cm to Section 3, 74 cm.</p> <p>General Description: Gas Voids: Section 1, 134-142 cm; Section 2, 52-59 cm. Dropstone: Section CC, 24 cm, Ø 1.3 cm, sandstone.</p>
2	[Hatched]	2		}}		F		
3	[Hatched]	3		}}		S	5Y 3/1	
4	[Hatched]	4		}}		F		
5	[Hatched]	5		}}		S	5Y 3/1 To 5GY 3/1	
6	[Hatched]	6		}}		F		
7	[Hatched]	7		}}		S		
8	[Hatched]	8		}}		F		
	[Hatched]	CC		}}		M		



SITE 911 HOLE B CORE 10H

CORED 68.0 - 75.7 mbsf

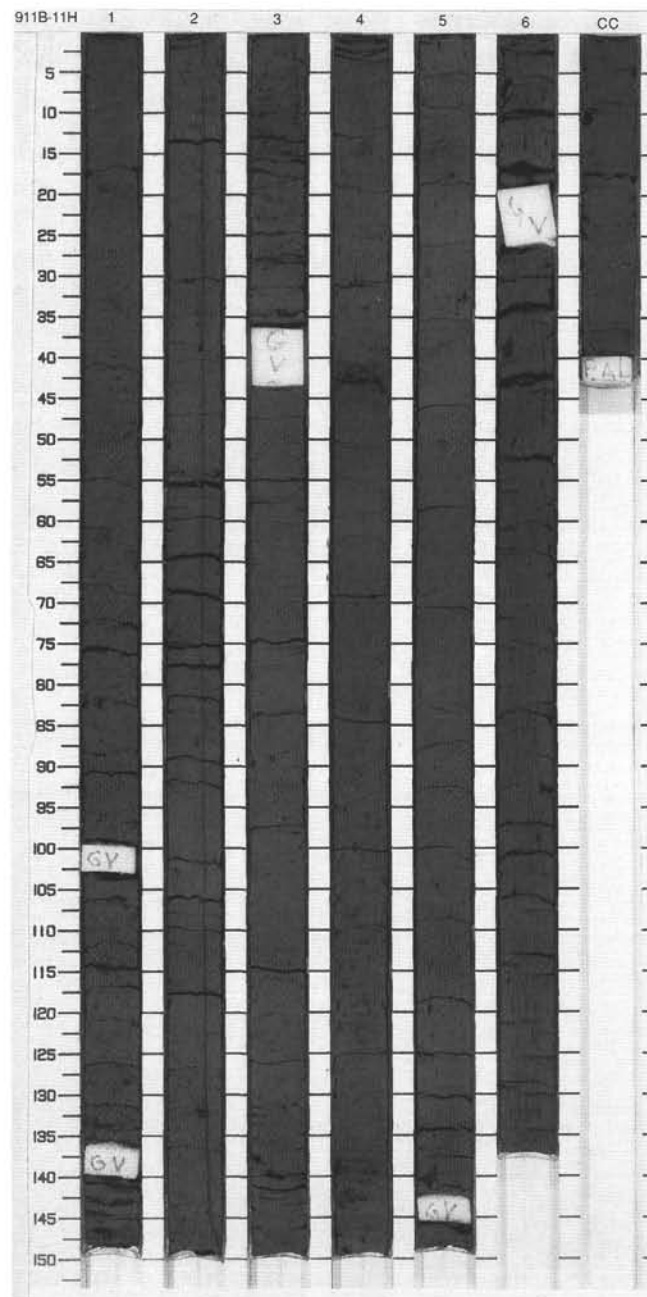
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		[Symbol]				<p>CLAYEY MUD</p> <p>Major Lithology: CLAYEY MUD, very dark gray (5Y 3/1), consists of layers with mm-sized black pockets and incipient concretions of Fe-sulfide-rich sediment which alternate with homogeneous layers lacking black pockets and containing only rare concretions. Quartz and feldspar are the main silt- and sand-sized grains.</p> <p>Minor Lithology: CARBONATE SILTY CLAY, dark gray (5Y 4/1), occurs in Section 2, 122-138 cm; Section 3, 39-57 cm. It contains black, Fe-sulfide pockets and concretions of mm size. Top and bottom contacts are gradational. Inorganic calcite constitutes up to 25% of the sediment.</p> <p>General Description: Dropstones: Section 5, 117 cm, Ø 1.5 cm, schist.</p> <p>Concretions: Section 2, 54 cm, 113 cm. Several concretions are tubular, suggesting a burrow origin.</p>
2	[Symbol]	2		[Symbol]			P	
3	[Symbol]	3		[Symbol]			S	
4	[Symbol]	3	Quaternary	[Symbol]			S P	
5	[Symbol]	3		[Symbol]			S	
6	[Symbol]	4		[Symbol]			P	
7	[Symbol]	5		[Symbol]			P	
8	[Symbol]	5		[Symbol]			S P	
9	[Symbol]	CC		[Symbol]			M	



SITE 911 HOLE B CORE 11H

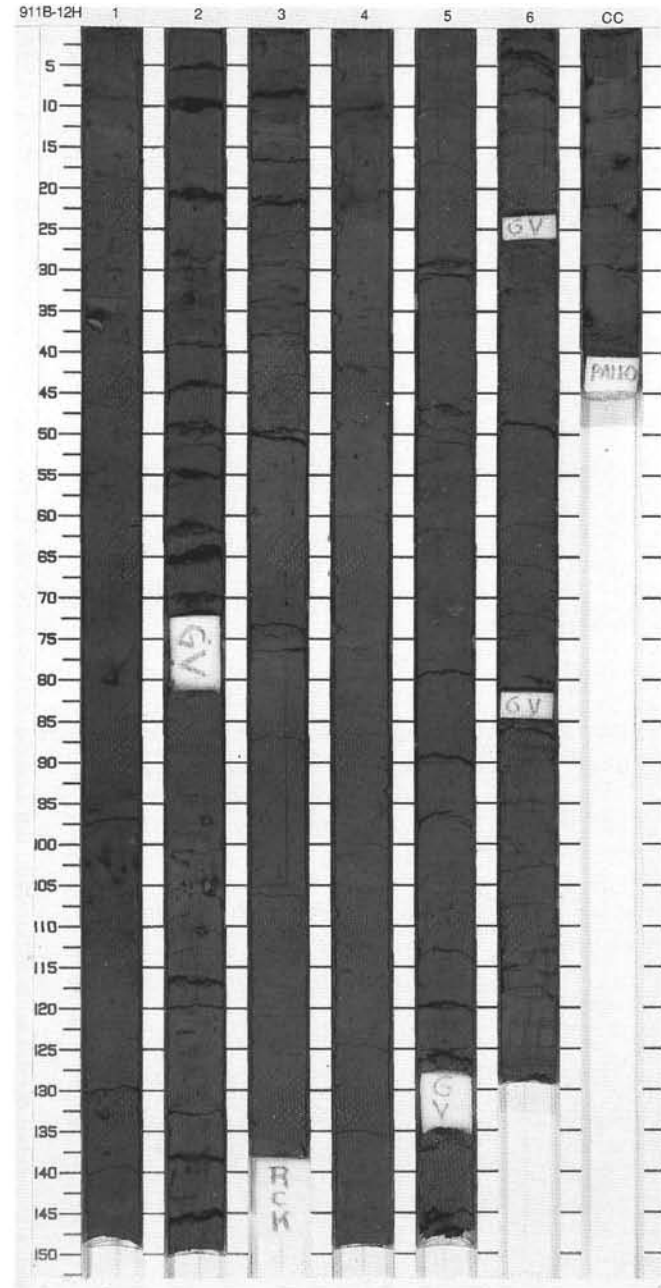
CORED 75.7 - 84.7 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	Void	Quaternary	}}		P		SILTY CLAY and CLAY Major Lithologies: Very dark gray (5Y 3/1) SILTY CLAY and CLAY. Lithologies are very similar, containing substantial quartz (13%–25%) and minor amounts of feldspar (3%–4%) in addition to clay minerals. Inorganic calcite and opaques present in variable minor (7%) amounts. Glauconite, mica, and calcareous nannofossils occur in trace amounts. General Description: Core is marked by bioturbation in the form of a mottled surface and burrows. The burrows contrast with surrounding sediment due to darker or lighter infilling. Iron sulfides are pervasive in the form of nodules and diffuse elongated bands. Dropstones: Section 5, 51 cm, Ø 1.0 cm, siltstone. Section 6, 6 cm, Ø 2.5 cm, schist.
1	Void		}}				
2	Void		}}				
2			}}		S P		
3			}}				
3	Void		}}				
4			}}				
4			}}				
5			}}			P	
5			}}			P	
6		}}			P		
7		}}			P		
7	Void	}}					
8	Void	}}					
8		}}			P		
9		}}					
9	CC				M		



SITE 911 HOLE B CORE 12H CORED 84.7 - 94.2 mbsf

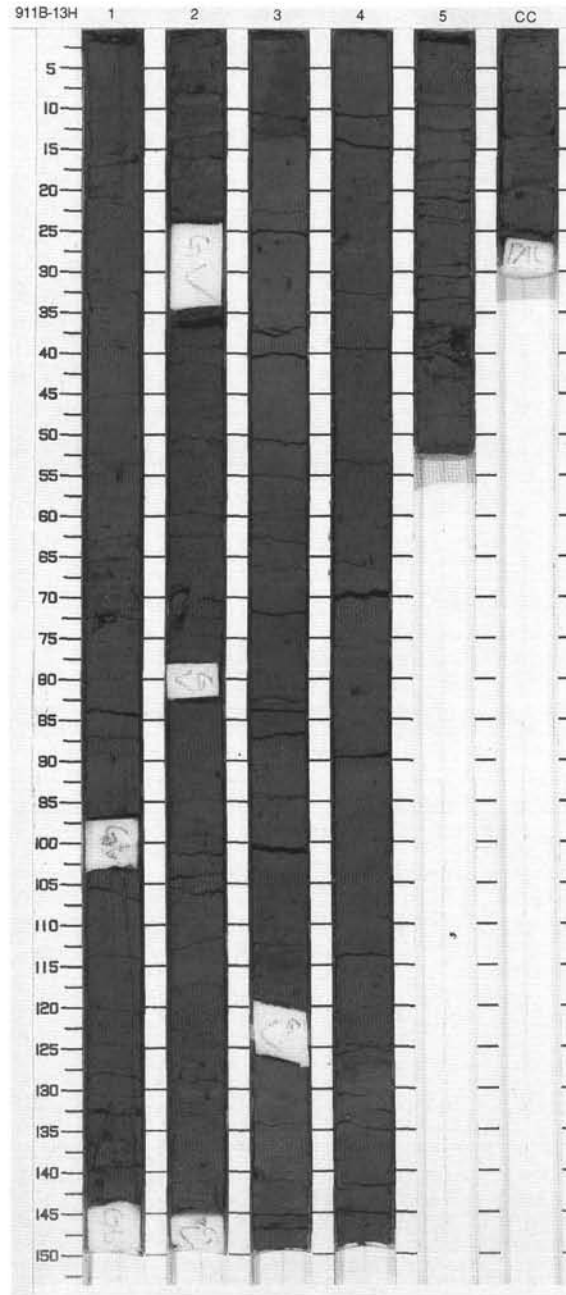
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1) SILTY CLAY. Quartz is the dominant non-clay mineral (~25%). Feldspar and inorganic calcite are also present. Lithology is distinguished by a generally smooth surface and mottled appearance.</p>
2	Void	2				P		
3		3				S P	5Y 5/1	<p>Minor Lithologies: Very dark gray (5Y 3/1) CLAYEY MUD interbedded with major lithology, and distinguished by dull, rough surface. Contains >35% quartz and feldspar grains. Minor amounts (<5%) of mica and inorganic calcite are present. Gray (5Y 5/1) CARBONATE SILTY CLAY occurs in Section 3, 10-90 cm, and Section 4, 20-50 cm, and is associated with color bands in each section. Inorganic calcite particles of clay to sand size constitute 25% of the lithology. SILTY MUD occurs as burrow fill throughout the core. Quartz (59%) is the dominant mineral, with clay (20%) and feldspar (14%) as important constituents.</p>
4		3				S P		
5		4	Quaternary			S		<p>General Description: Dropstones: Section 1, 35 cm, Ø 2.5 cm, quartz diorite; 135 cm, Ø 1.5 cm, siltstone. Section 2, 107 cm, Ø 1.3 cm, quartz; 107 cm, Ø 1.0 cm, pyroclastic; 107 cm, Ø 1.0, siltstone. Section 5, 35 cm, Ø 2.0 cm, schist.</p>
6		4				P		
7	Void	5				S P	5Y 3/1	
8	Void	6				P		
9	Void	6				P		
		CC				M		



SITE 911 HOLE B CORE 13H

CORED 94.2 - 101.0 mbsf

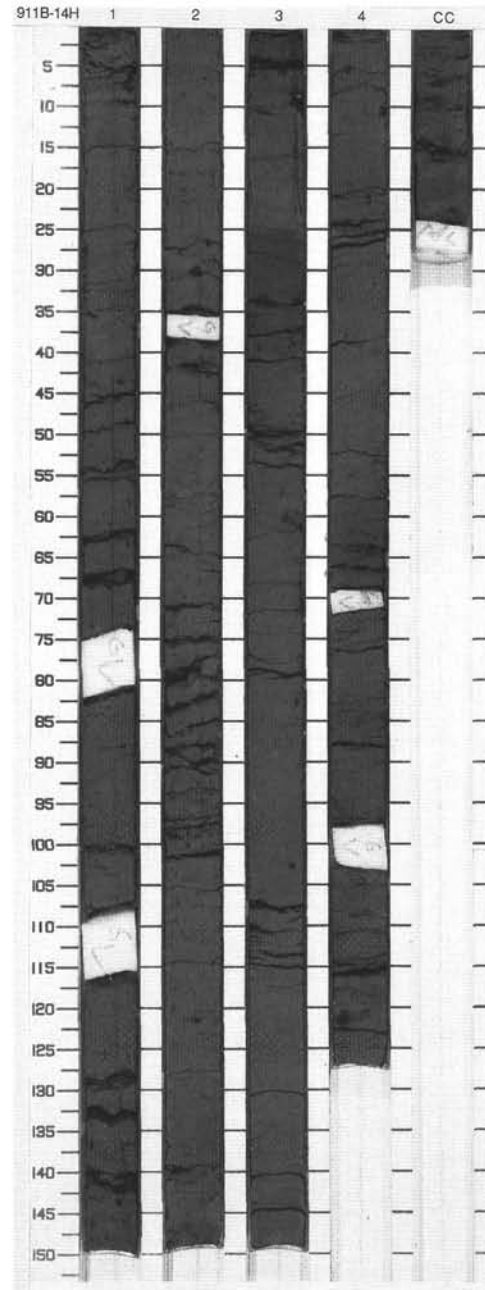
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		[Symbol]		S P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), slightly to moderately bioturbated. Black Fe-sulfide burrow fills are abundant; white silty burrow fills are present. Several layers (1.0 cm thick) of coarse material are present in Sections 2, 3, 4, and 5 with gradational contacts. Parts of the core are moderately disturbed by gas expansion.</p> <p>General Description: Dropstones: Section 1, 72, Ø 3.0 cm, igneous; 135 cm, Ø 1.0 cm, siltstone. Section 2, 70 cm, Ø 3.0 cm, sandstone. Section 5, 34 cm, Ø 3.0 cm, siltstone.</p>
2	Void	2		[Symbol]		P		
3	[Hatched pattern]	3	Quaternary	[Symbol]		P		
4	[Hatched pattern]	4		[Symbol]		S P		
5	[Hatched pattern]	5		[Symbol]		P		
6	[Hatched pattern]	6		[Symbol]		S P		
		CC		[Symbol]		M		



SITE 911 HOLE B CORE 14H

CORED 101.0 - 107.0 mbsf

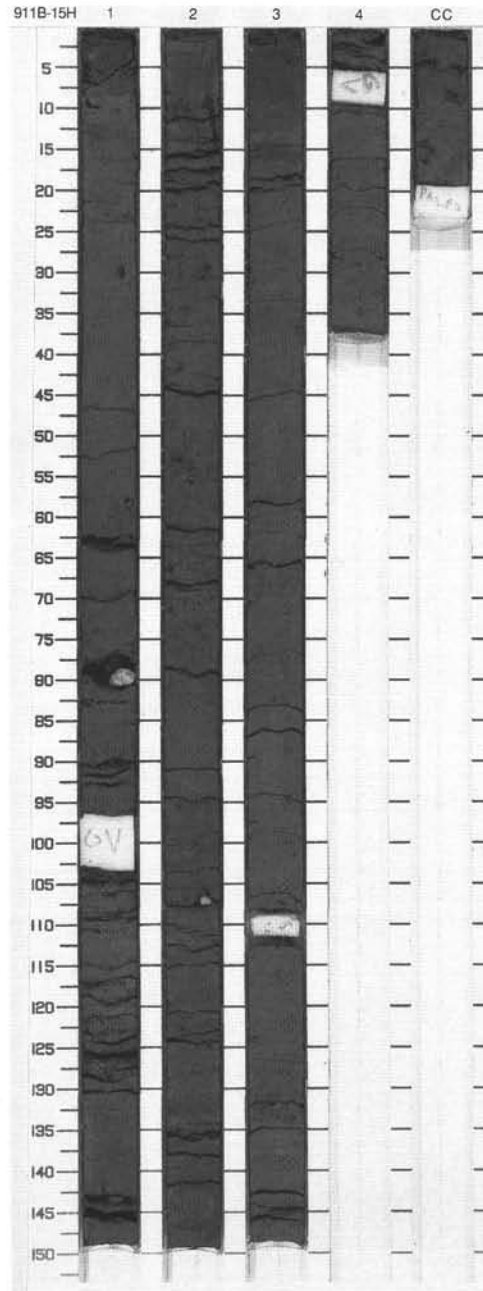
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Quaternary		W	P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, very dark gray (5Y 3/1), moderately bioturbated. Black Fe-sulfide burrow fills are abundant; white silt burrow fills are present. Layers of coarser material (1.0 cm thick) are present in Sections 1, 3, 4, and CC with gradational contacts. Core is moderately disturbed by gas voids (10.0 cm thick).</p> <p>Minor Lithology: CLAYEY MUD, homogeneous, very dark gray (5Y 3/1), moderately bioturbated in Sections 4, 60 cm and CC.</p> <p>General Description: Dropstones: Section 4, 5 cm , Ø 1.0 cm, siltstone, 104 cm, Ø 1.0 cm, siltstone. Shell fragments: Section 4, 85 cm, <i>Inoceramus</i> prisms.</p>
2		2			S	P		
3		3			P	P		
4		4			S	P		
5		4			P	P		
6		4			S	P		
		CC			M			



SITE 911 HOLE B CORE 15H

CORED 107.0 - 112.1 mbsf

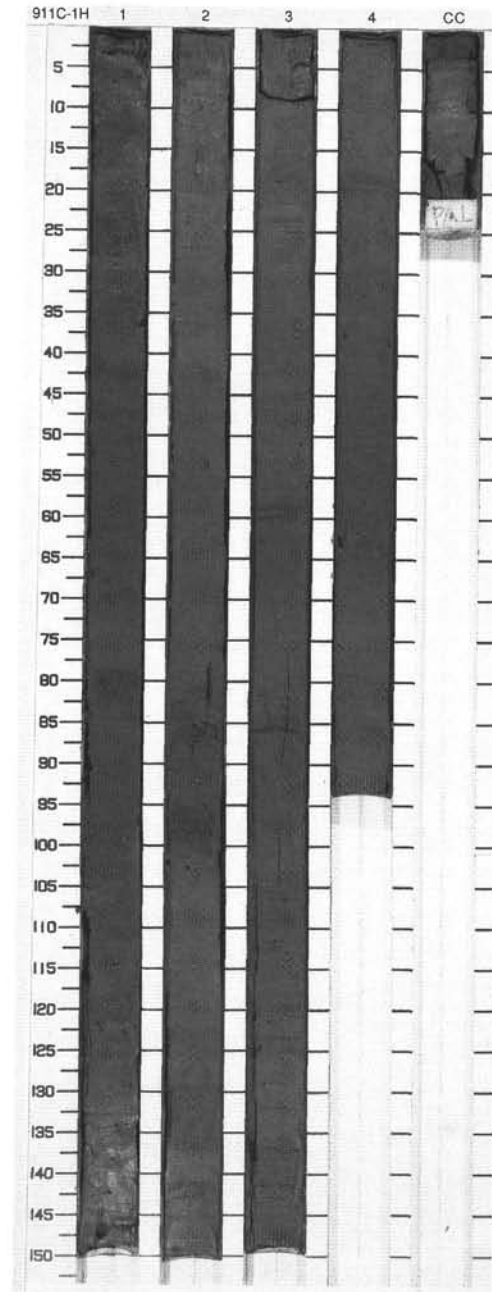
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Graphic Lithology]	1		[Structure]	W	P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, very dark gray (5Y 3/1), moderately bioturbated. Black Fe-sulfide burrow fills are abundant. Slightly coarser layers have gradational contacts.</p> <p>General Description: Dropstones: Section 1, 77 cm, Ø 3 cm, carbonate rich claystone/siltstone.</p>
2	[Graphic Lithology]	2	Quaternary	[Structure]		P	5Y 3/1	
3	[Graphic Lithology]	3		[Structure]		P		
4	[Graphic Lithology]	4		[Structure]		P		
5	[Graphic Lithology]	CC		[Structure]		M		



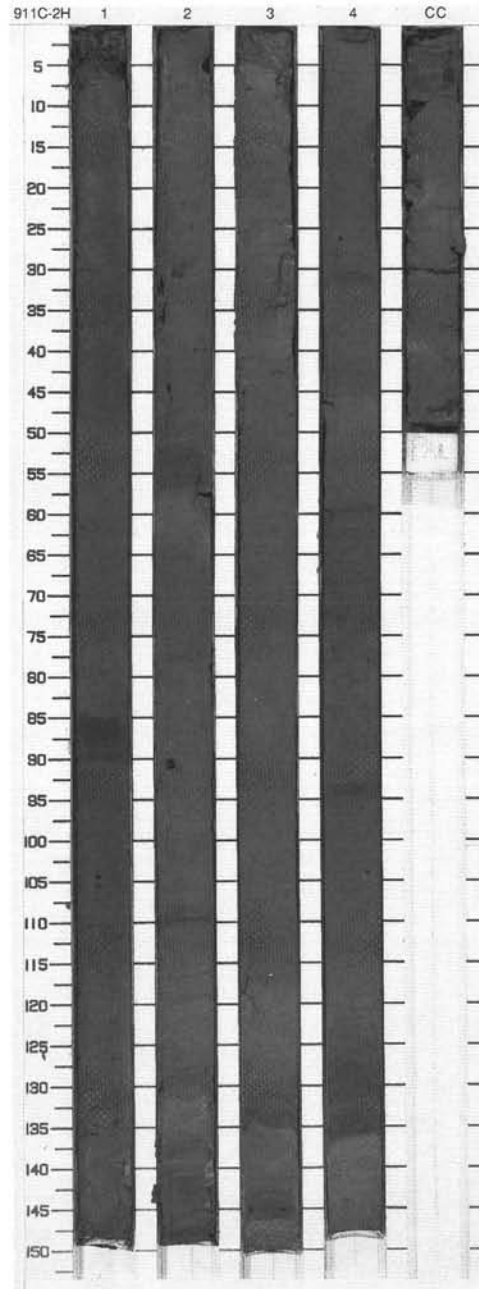
SITE 911 HOLE C CORE 1H

CORED 0.0 - 5.7 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1			S	10YR 3/3	SILTY CLAY and CLAYEY SILT
2		2			S	5Y 3/1	<p>Major Lithologies: SILTY CLAY and CLAYEY SILT are soft, homogeneous but display numerous variations in color that appear in 15- to 80-cm-thick layers. The first 30 cm of the core is very dark grayish brown (5Y 3/3) and very dark gray (5Y 3/2) in the lower part. Only traces of foraminifers and nannofossils are found at the top of the core. Downcore, colors range between gray (5Y 4/1) and a very dark gray (5Y 3/1), with often a sharp change to darker shade and then a gradational lightening. Bioturbation is visible only near this boundary. Very thin color bands forming sets 1 to 4 cm thick occur repetitively within the dark gray to gray transition. In some places, these thin bands seem to correspond to changes in sediment texture. The lighter levels are often more homogeneous than the darker interval and appear more finer grained. They also contain more inorganic carbonate grains (up to 35%).</p> <p>Minor Lithology: CLAYEY MUD, heterogeneous, very dark gray (10Y 3/1) distinctively coarser grained, occurs as a single bed in Section 2, 81-101 cm.</p>
3		3			S	2.5Y 4/2 To 5Y 4/1	
4		3			S	10Y 3/1	
5		3			S	5Y 4/1 To 5Y 3/1	
		4			S	5Y 4/1 To 5Y 3/1	
		CC			M		

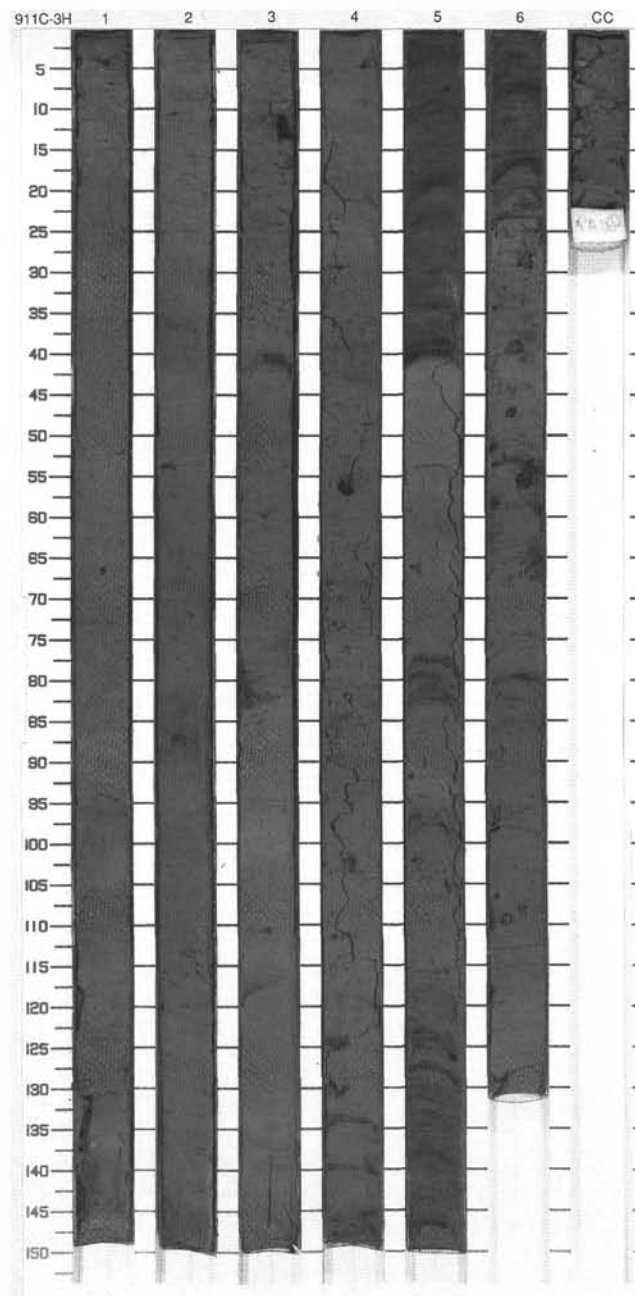


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	5	[Symbol]		S	5Y 3/1	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: Very dark gray (5Y 3/1) SILTY CLAY and CLAYEY SILT, with common mm-size disseminated iron-sulfide concretions, occurs from top of core to Section 3, 116 cm; from Section 3, 146 cm to Section 4, 114 cm; and from Section 4, 138 cm to bottom of core. Contains slightly finer, more massive SILTY CLAY layers with fewer Fe-sulfide concretions in Section 3, 22-116 cm, in Section 4, 12-60 cm, and in Section CC, 8-22 cm.</p>
2	[Symbol]	2	5	[Symbol]		S	5Y 3/1 To 10YR 3/2	
3	[Symbol]	3	Quaternary	[Symbol]		S		<p>Minor Lithology: Very dark gray (5Y 3/1) CLAYEY MUD occurs in Section 1, 64-102 cm, Section 3, 116-146 cm, and Section 4, 114-138 cm. Layers are marked by sharp bases with dark grayish brown (10YR 3/2) coarser material, grading upward into very dark gray (5Y 3/1) SILTY CLAY.</p>
4	[Symbol]	4		[Symbol]		S	5Y 3/1	
5	[Symbol]	5		[Symbol]		S		
6	[Symbol]	6		[Symbol]		S		
	[Symbol]	CC		[Symbol]		M		



SITE 911 HOLE C CORE 3H CORED 15.2 - 24.7 mbsf

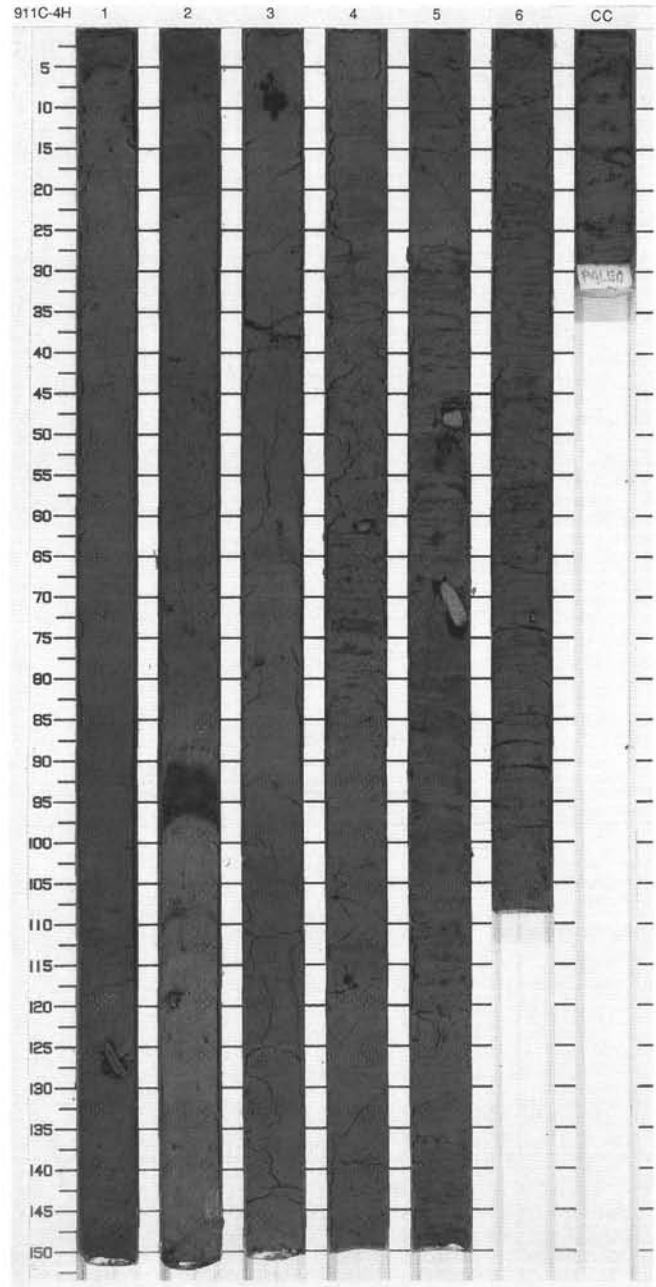
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				S	5Y 4/1	<p>SILTY CLAY and CLAY</p> <p>Major Lithologies: SILTY CLAY and CLAY, with minor grain-size variations within these lithologies. In Sections 1-3, there are distinct color cycles, 14-60 cm thick. Cycles begin with very dark gray (5Y 3/1), usually a sharp contact, have a thin layer of olive gray (5Y 4/2) commonly with a few slightly coarser grains, overlain by dark gray (5Y 4/1). The larger of these color band cycles are shown by individual boxes in the color column. Even though only one color is listed, the other colors are mostly present. Deeper in the core, most of the olive gray is missing and N4 gray substitutes for 5Y 4/1.</p> <p>Minor Lithologies: CLAYEY MUD, very dark gray (5Y 3/1), is present at the base of the graded layer in Section 5, 20-40 cm, and as thin laminae in some of the coarser layers in Section 5, 130 cm to Section 6, 20 cm. CARBONATE-BEARING SILTY CLAY is present in a single layer of dark gray (5Y 4/1) in Section 3, 96-102 cm.</p> <p>General Description: A pyritized burrow, 2 cm long, 2 mm wide is present in Section 2, 57 cm.</p> <p>Dropstones: Section 2, 88 cm, Ø 1.1 cm, subangular, yellow sandstone, Section 6, 28 cm, Ø 1.7 plutonic; 40 cm, Ø 2.2 cm; 47 cm, coal 1.2 cm; 110 cm, Ø 1.2 cm, rounded sandstone and Ø 1 cm, subangular quartz.</p>
2		2				S	5Y 4/1	
3		3				S	5Y 3/1	
4		3				S	5Y 4/1	
5		4				S	5Y 4/1	
6		4				S	5Y 3/1	
7		5				S	5Y 4/1	
8		6				S	5Y 3/1	
9		6				S	5Y 4/1	
		CC				M	5Y 3/1	



SITE 911 HOLE C CORE 4H

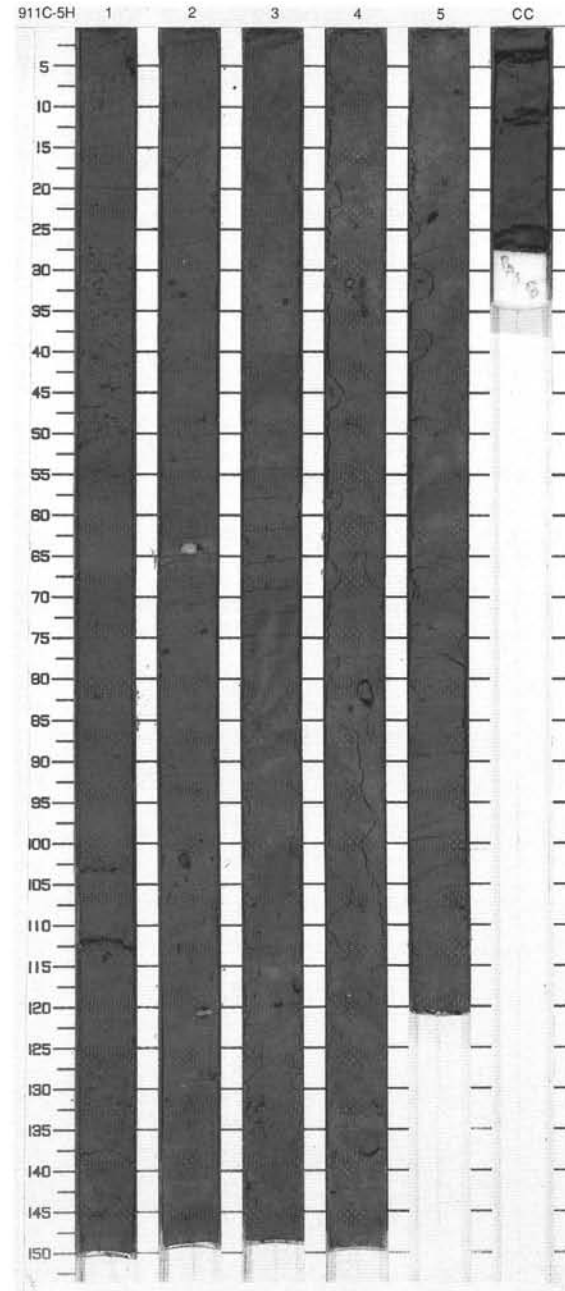
CORED 24.7 - 34.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Quaternary	[Symbol]		S	5YR 4/1 To 5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, color very dark gray (5Y 3/1, 10Y 3/1, 10YR 3/1), dark gray (5Y 4/1), and gray (5Y 5/1); slight to moderately bioturbated; black Fe-sulfide burrow fills are abundant; gradational contacts are typical for coarser layers.</p> <p>Minor Lithology: CLAYEY MUD, Section 1, 40-60 cm, 140-150 cm; Section 2, 0-5 and 75-100 cm; very dark gray (5Y 3/1, 10Y 3/1, 10YR 3/1), dark gray (5Y 4/1), and gray (5Y 5/1), slight to moderately bioturbated; with black Fe-sulfide burrow fills.</p> <p>General Description: Dropstones occur at: Section 1, 125 cm, Ø 4.5 cm, siltstone. Section 2, 8 cm, Ø 2.0 cm, coal fragment. Section 3, 61 cm, Ø 1.5 cm, metamorphic. Section 6, 70 cm, Ø 1.0 cm, sandstone.</p>
2	[Symbol]	2		S	10YR 3/1 To 5Y 3/1			
3	[Symbol]	3		S	10YR 3/1 To 5Y 5/1			
4	[Symbol]	4		5Y 4/1				
5	[Symbol]	5		5Y 4/1 To 5Y 3/1				
6	[Symbol]	6		5Y 3/1				
CC						M		



SITE 911 HOLE C CORE 5H CORED 34.2 - 41.7 mbsf

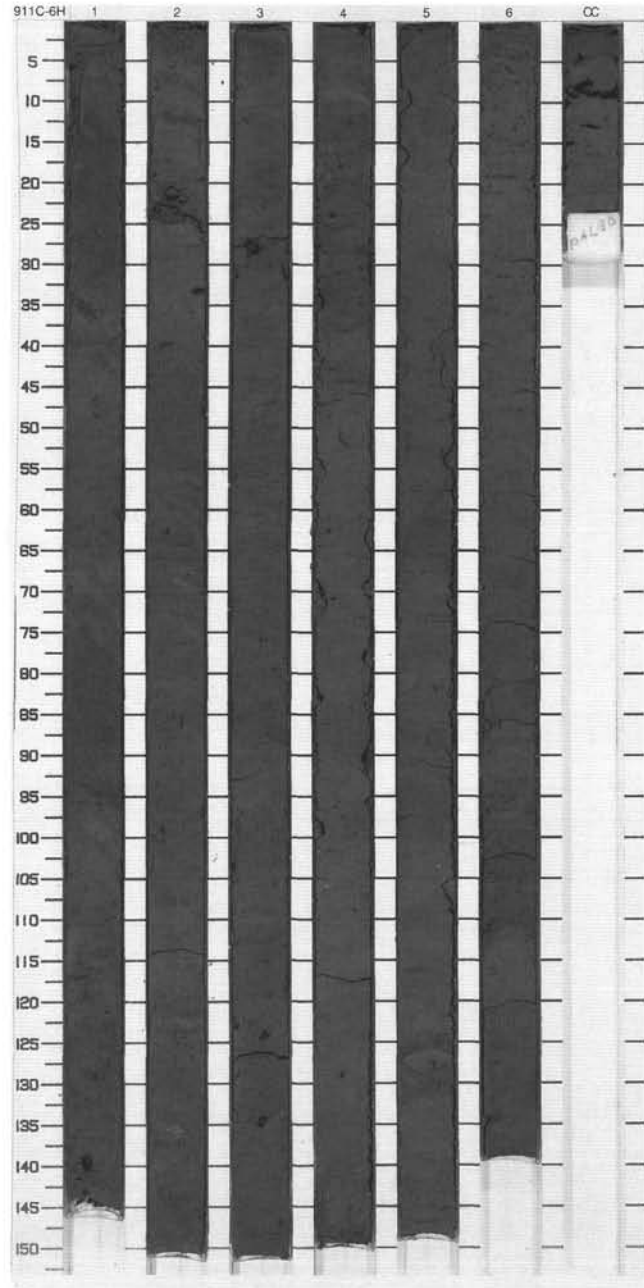
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		[Symbol]			2.5Y N3/0 To 5Y 3/1	<p>CLAYEY SILT</p> <p>Major Lithology: CLAYEY SILT, homogeneous, color very dark gray (5Y 3/1), dark gray (5Y 3/2), black (2.5Y N0/3), olive gray (10Y 4/1), dark olive gray (10Y 3/2), very dark olive gray (10Y 3/1). Moderate bioturbation, black Fe-sulfide burrow fills are abundant, white silt burrow fills are common. Several coarser layers (1.0 cm thick) occur with gradational contacts, lower part moderately disturbed.</p> <p>General Description: Dropstones: Section 2, 62 cm, Ø 2.5 cm, siltstone. Section 2, 101 cm, Ø 1.0 cm, siltstone. Section 4, 30 cm, Ø 1.0 cm, siltstone. Section 4, 81 cm, Ø 2.0 cm, igneous rock. Section 4, 115 cm, Ø 1.0 cm, siltstone. Section 5, 62 cm, Ø 1.0 cm, siltstone.</p>
2	[Symbol]	2		[Symbol]			5Y 4/1 To 5Y 3/1	
3	[Symbol]	3	Quaternary	[Symbol]			10Y 3/1 To 10Y 4/1	
4	[Symbol]	4		[Symbol]			10Y 3/1 To 5Y 3/1	
5	[Symbol]	5		[Symbol]			5Y 4/1 To 5Y 3/1	
CC	[Symbol]	CC		[Symbol]				M



SITE 911 HOLE C CORE 6H

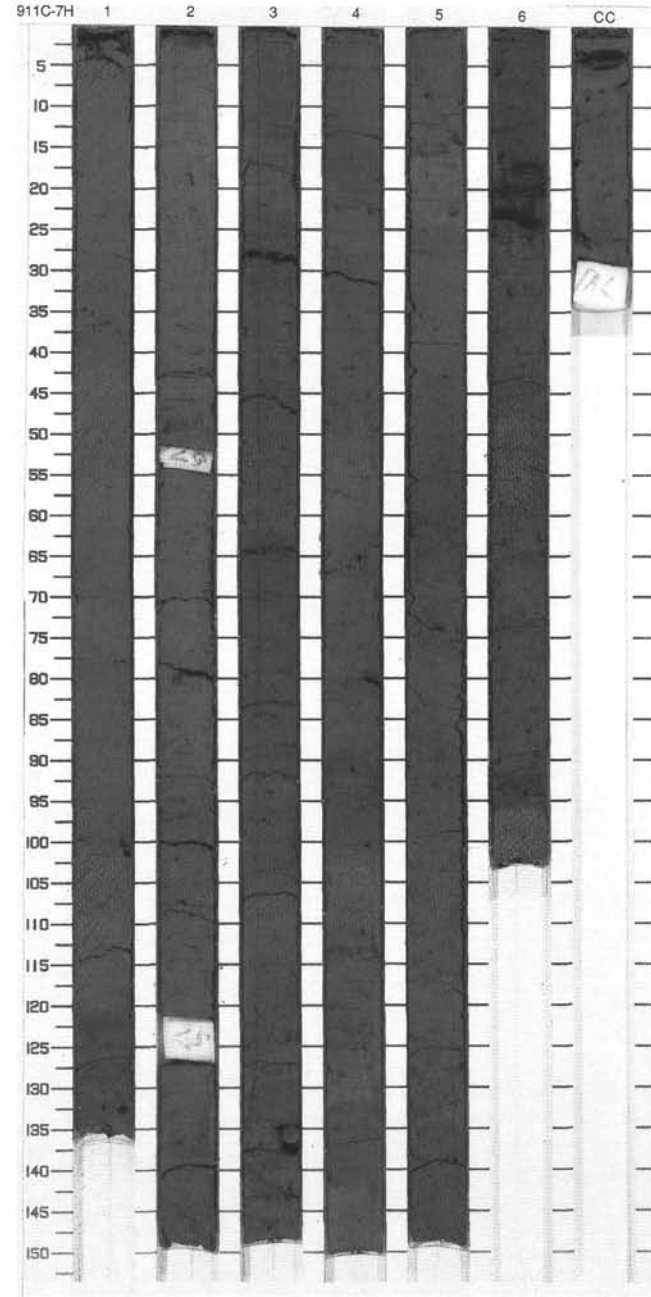
CORED 41.7 - 51.2

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		[Symbol]		S		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, color very dark gray (5Y 3/1), to dark gray (5Y 4/1), slight to moderate bioturbation. Black Fe-sulfide burrow fills are abundant, white silt burrow fills are common; coarser layers with gradational contacts are typical for this core.</p> <p>Minor Lithologies: CLAY, color very dark gray (5Y 3/1), to dark gray (5Y 4/1), slight to moderate bioturbation. Black Fe-sulfide burrow fills are abundant, white silt burrow fills are common; high amounts of inorganic carbonate, present in Section 1.</p> <p>General Description: Dropstones: Section 3, 27 cm, Ø 1.2 cm, siltstone. Section 3, 124 cm, Ø 1.0 cm, quartzitic.</p>
2	[Symbol]	2		[Symbol]		S		
3	[Symbol]	3		[Symbol]				
4	[Symbol]	4		[Symbol]				
5	[Symbol]	5	Quaternary	[Symbol]			5Y 3/1 To 5Y 4/1	
6	[Symbol]	6		[Symbol]				
7	[Symbol]	7		[Symbol]		S		
8	[Symbol]	8		[Symbol]		S		
9	[Symbol]	9		[Symbol]		M		



SITE 911 HOLE C CORE 7H CORED 51.2 - 60.7 mbsf

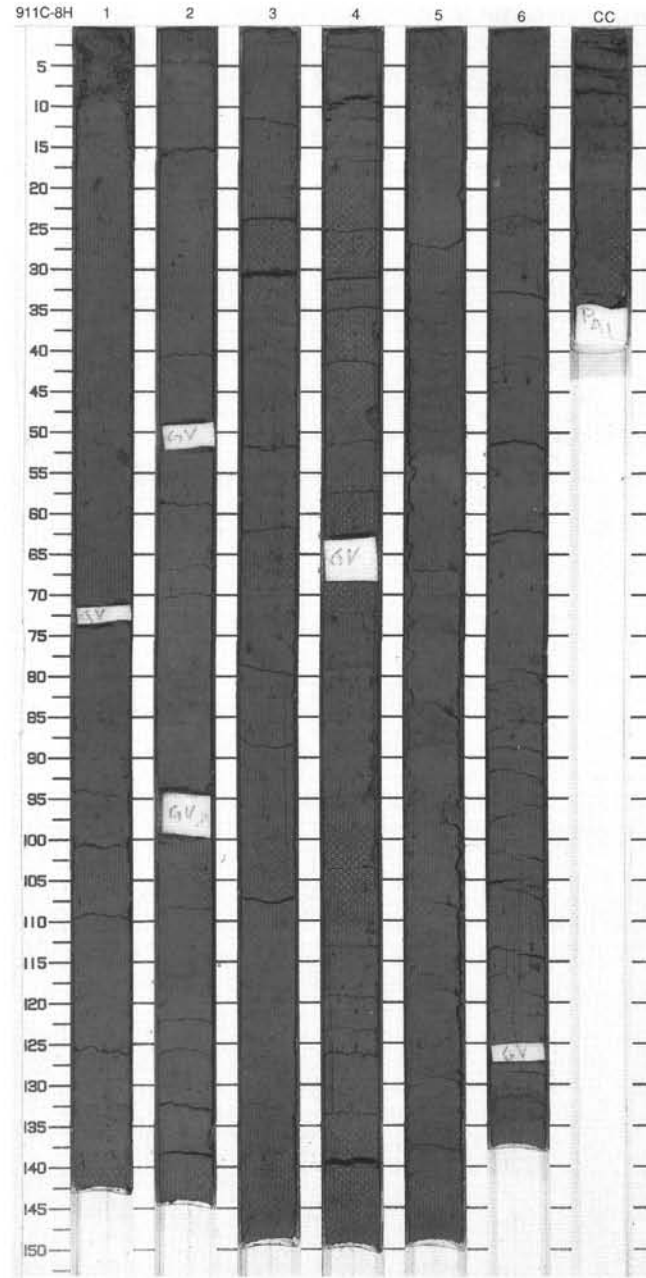
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Quaternary	[Symbol]		S	5Y 3/1 To 5Y 3/2	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, color very dark gray (5Y 3/1) and dark gray (5Y 3/2), moderately bioturbated. Black Fe-sulfide burrow fills are dominant, white silt burrow fills are abundant. Several coarser layers (1.0 cm thick) occur with gradational contacts. Shell fragments are present in Sections 1, 2, 3, and 5.</p> <p>General Description: Dropstone: Section 1, 137 cm, Ø 1,0 cm, coal particle, Section 3, 137 cm, Ø 2,5 cm, siltstone, Section 4, 100 cm, Ø 1.0 cm, coal fragment.</p>
2	[Symbol]	2		[Symbol]		S		
3	[Symbol]	3		[Symbol]				
4	[Symbol]	4		[Symbol]				
5	[Symbol]	5		[Symbol]				
6	[Symbol]	6		[Symbol]		S		
7	[Symbol]	5						
8	[Symbol]	6			S			
CC	[Symbol]				S			
					M			



SITE 911 HOLE C CORE 8H

CORED 60.7 - 69.5 mbsf

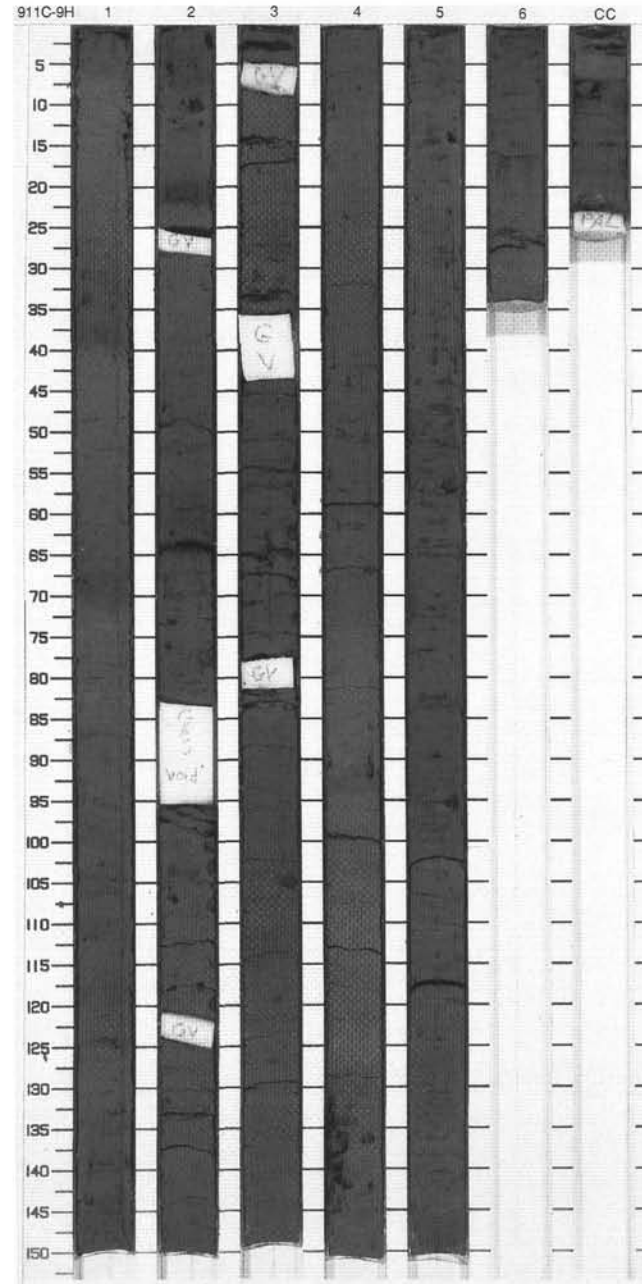
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	Void	1	Quaternary	S	O I S	S	5Y 3/1	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: SILTY CLAY and CLAYEY SILT, predominantly very dark gray (5Y 3/1). Dark gray (5Y 4/1) intervals are found in Section 2, 64-81 cm and Section 5, 53-59 cm. Homogeneous, with scattered burrows filled with dark brown sediment or light gray carbonate-rich sediment. Pods and patches of black sulfides occur throughout the core. A few very dark grayish brown (2.5Y 3/2) color bands are present in Section 2, 80-85 cm.</p> <p>Minor Lithology: SILTY MUD, very dark gray (10YR 3/1) and slightly bioturbated is present in Section 5, 35-55 cm. Contacts to clayey silt are gradational.</p>
2	Void	2						
3	Void	3						
4		4						
5	Void	5						
6		6						
7		7						
8		8						
9	Void	9						
		CC						



SITE 911 HOLE C CORE 9H

CORED 69.5 - 77.6 mbsf

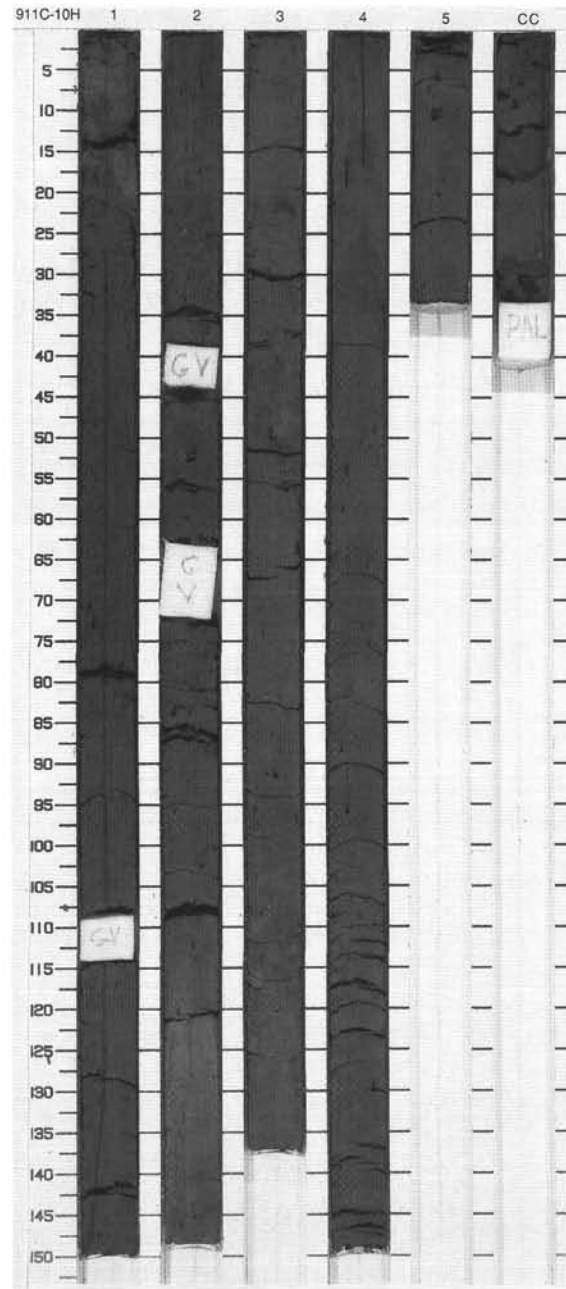
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				S	5Y 4/1 To 5Y 2.5/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray to dark gray (5Y 3/1, 5Y 4/1), is homogeneous but is locally carbonate bearing or sandy. It contains black pods of Fe sulfides throughout the core. Pods of gray (5Y 5/1) sandy sediment, calcareous in places, are rare. Quartz and feldspar are the major silt- and sand-sized grains; inorganic calcite comprises up to 10% of the grains.</p> <p>Minor Lithologies: CLAYEY MUD, black and very dark gray (5Y 2.5/1, 5Y 3/1), occurs as thin beds interbedded with SILTY CLAY in Sections 1 and 2. Top and bottom contacts are gradational. Black Fe-sulfide pods occur throughout the layers. Quartz and feldspar are the main silt- and sand-sized grains. CLAY, dark gray to dark greenish gray (5Y 4/1, 5GY 4/1), is present in Section 4, 95–115 cm. Top and bottom contacts are very gradational.</p> <p>General Description: Black concretions, $\varnothing > 1$ cm: Section 2, throughout. Section 3, 105 cm. Section 4, 131–146 cm. Section 5, 13 and 94 cm.</p>
2	VOID	2				S		
3		3	Quaternary			S	5Y 3/1	
4		4				S	5GY 4/1	
5		5				S	5Y 3/1	
6		6				M		
7								
8		CC						



SITE 911 HOLE C CORE 10H

CORED 77.6 - 84.1 mbsf

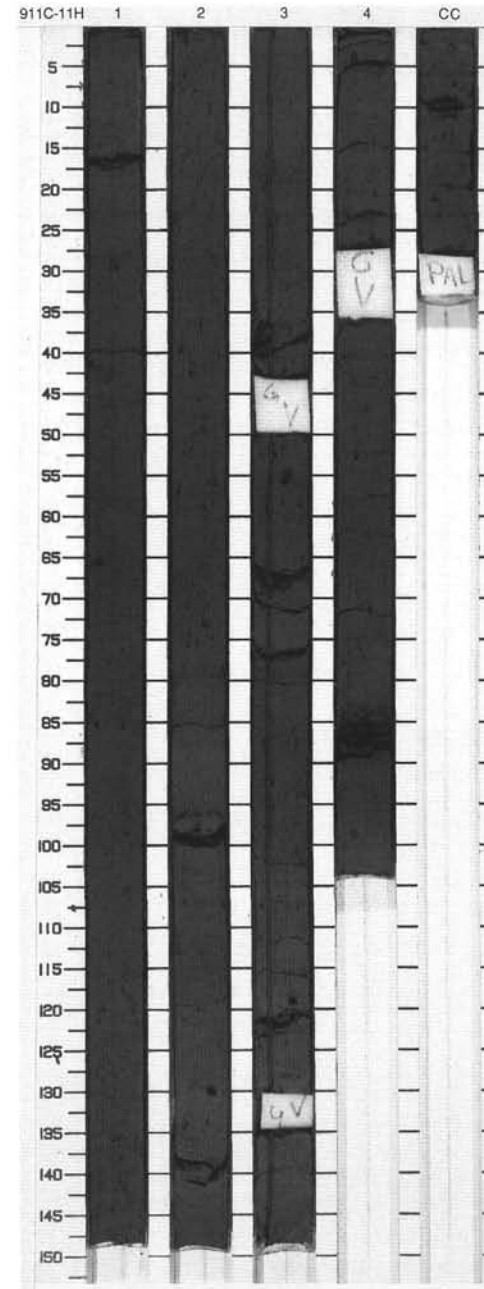
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	Void	1			WW	S	5Y 3/1	<p>CLAYEY SILT</p> <p>Major Lithology: Homogeneous CLAYEY SILT, very dark gray (5Y 3/1). Up to 10-cm-thick faint color bands, very dark gray (10YR 3/1) are found in Section 4, 0-73 cm. Patches and mm-sized sulfide concretions throughout the core. Two larger sulfide concretions occur in Section 3, 56 cm and Section 5, 10 cm.</p> <p>Minor Lithologies: A layer of CARBONATE-BEARING SILTY CLAY, dark gray (5Y 4/1) is present in Section 2, 122-139. Up to 5-cm-long pockets of CLAYEY CARBONATE occur in Section 3, 43-55 and 105-137 cm. These are burrows or remains from layers destroyed by the drilling process.</p>
2	Void	2				S	5Y 4/1	
3	Void	3	Quaternary			S	5Y 3/1	
4		4				S	5Y 3/1 To 10YR 3/1	
5		5				S	5Y 3/1	
6		6				M		



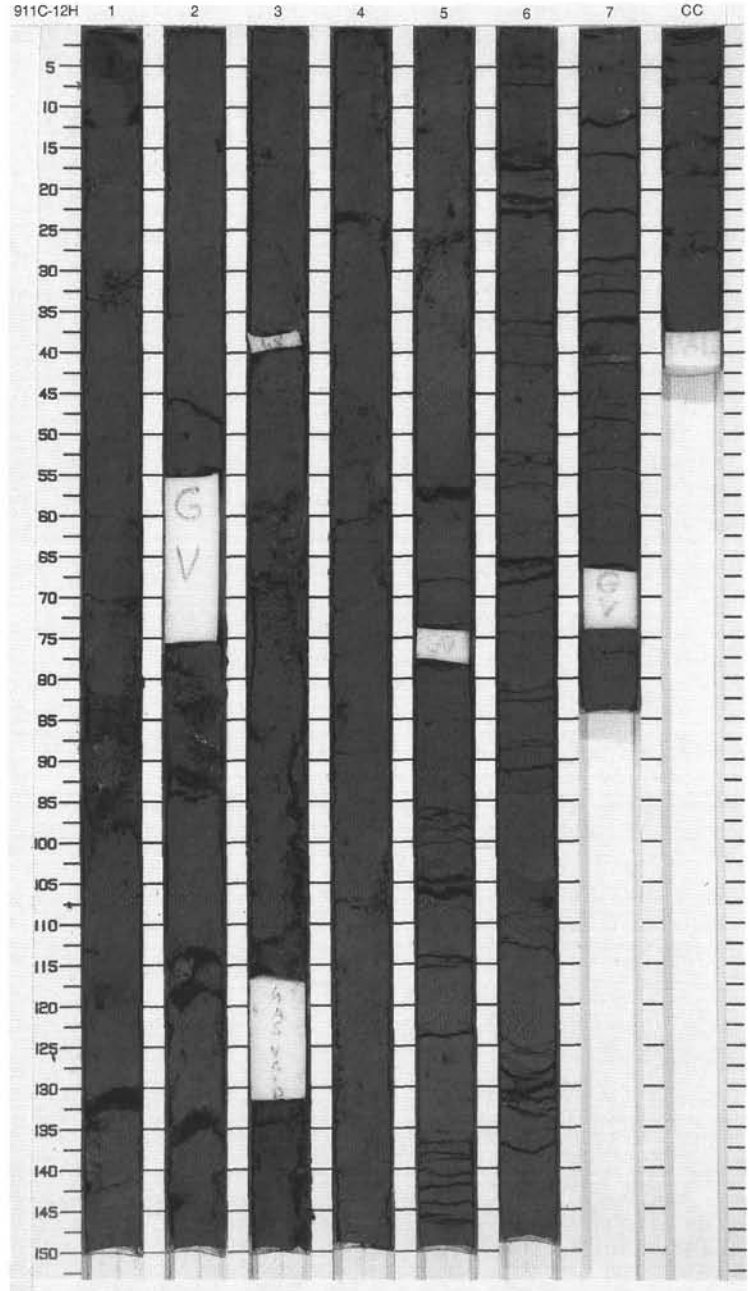
SITE 911 HOLE C CORE 11H

CORED 84.1 - 89.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}}		S		<p>CLAYEY SILT and SILTY CLAY</p> <p>Major Lithologies: The core consists of very dark gray (5Y 3/1) CLAYEY SILT and SILTY CLAY which mainly differ by the aspect of bioturbation. The CLAYEY SILT has numerous scattered Fe-sulfide pods corresponding to small sandy burrows. The sand percent is high enough to qualify the sediment as a mud (10%-12%) but coarse particles are rare. Only a Ø 1.5-cm clast of lithified clay occurs Section 3, 40 cm. Small Fe-sulfide concretions are also found grouped in a single thin bed in Section 2, 100 cm. SILTY CLAY has a more homogeneous texture but shows diffuse dark Fe-sulfide patches, which in places underline the bedding or make the sediment darker (5Y 2.5/1). Burrows are less numerous but larger sized.</p>
2		2		}}		S	5Y 3/1	
3		2	Quaternary	}}				
4		3		}}			5Y 2.5/1	
5		4		}}		S	5Y 3/1	
		CC		}}		S		<p>Minor Lithology: A black layer (N3), Section 4, 86-90 cm, consists mainly of clay-sized opaque grains and only a few coarse quartz grains.</p>

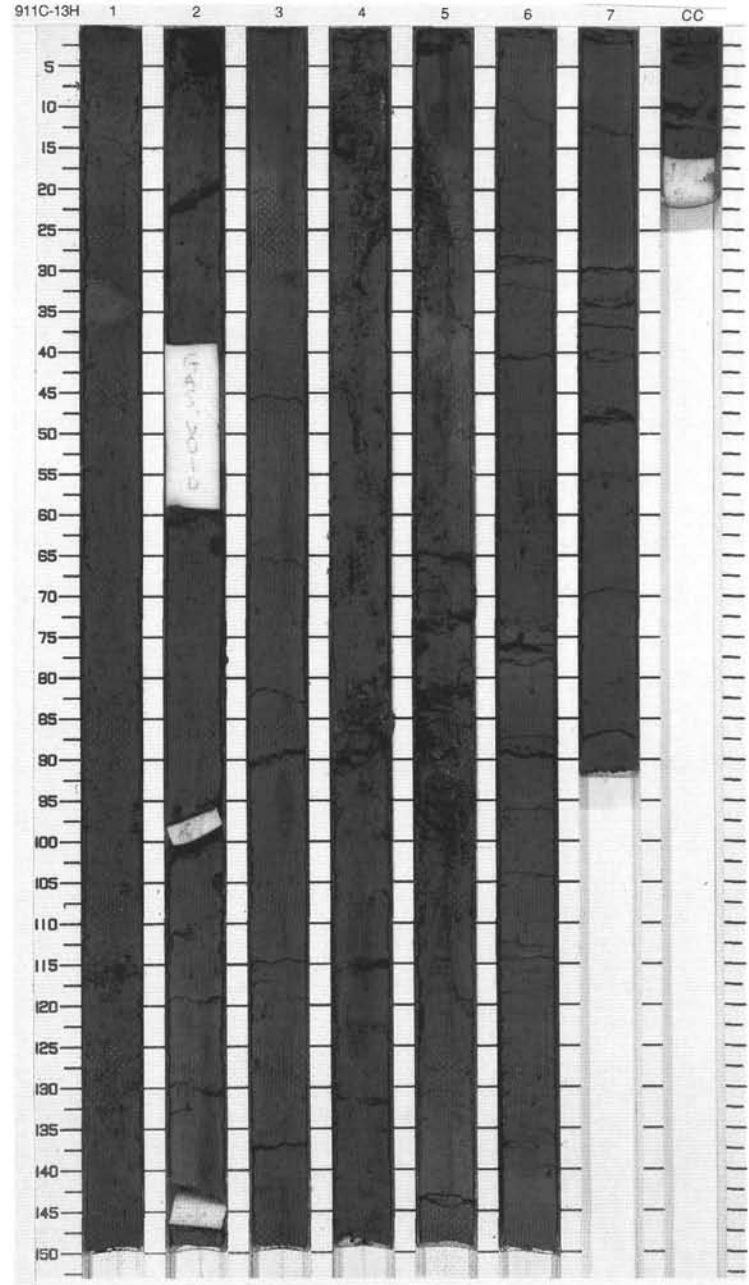


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Quaternary	[Symbol]		S		<p>SILTY CLAY and CLAYEY MUD</p> <p>Major Lithologies: SILTY CLAY, very dark gray (5Y 3/1) is interbedded with layers, 5-45 cm thick, of CLAYEY MUD, very dark gray (5Y 3/1) in Sections 1 to 4. Bedding contacts are gradational. SILTY CLAY predominates in Section 5 to CC. Both lithologies are relatively homogeneous but faint color banding occurs locally. Black (5Y 2.5/1) pods of Fe sulfide are present throughout. Section 5 to CC contain gray and light gray (5Y 5/1, 5Y 6/1) sandy pods, mm sized. SILTY CLAY and CLAYEY MUD are locally carbonate bearing. Quartz is the main silt- and sand-sized component.</p> <p>General Description: The core is firm in Section 5, 60 cm to Section CC.</p> <p>Dropstone: Section 2, 114 cm, Ø 3.5 cm, vesicular basalt.</p> <p>Concretions, Ø >1 cm: Section 4, 47 cm. Section 5, 126 cm.</p>
2	[Hatched pattern]	2	Quaternary	[Symbol]		S		
3	[Hatched pattern]	3	Quaternary	[Symbol]		S		
4	[Hatched pattern]	4	Quaternary	[Symbol]		S		
5	[Hatched pattern]	5	Quaternary	[Symbol]		S		
6	[Hatched pattern]	6	Quaternary	[Symbol]		S		
7	[Hatched pattern]	7	Quaternary	[Symbol]		S		
8	[Hatched pattern]	8	Quaternary	[Symbol]		S		
9	[Hatched pattern]	9	Quaternary	[Symbol]		S		
10	[Hatched pattern]	CC	Quaternary	[Symbol]		M		



SITE 911 HOLE C CORE 13H CORED 99.4 - 108.9 mbsf

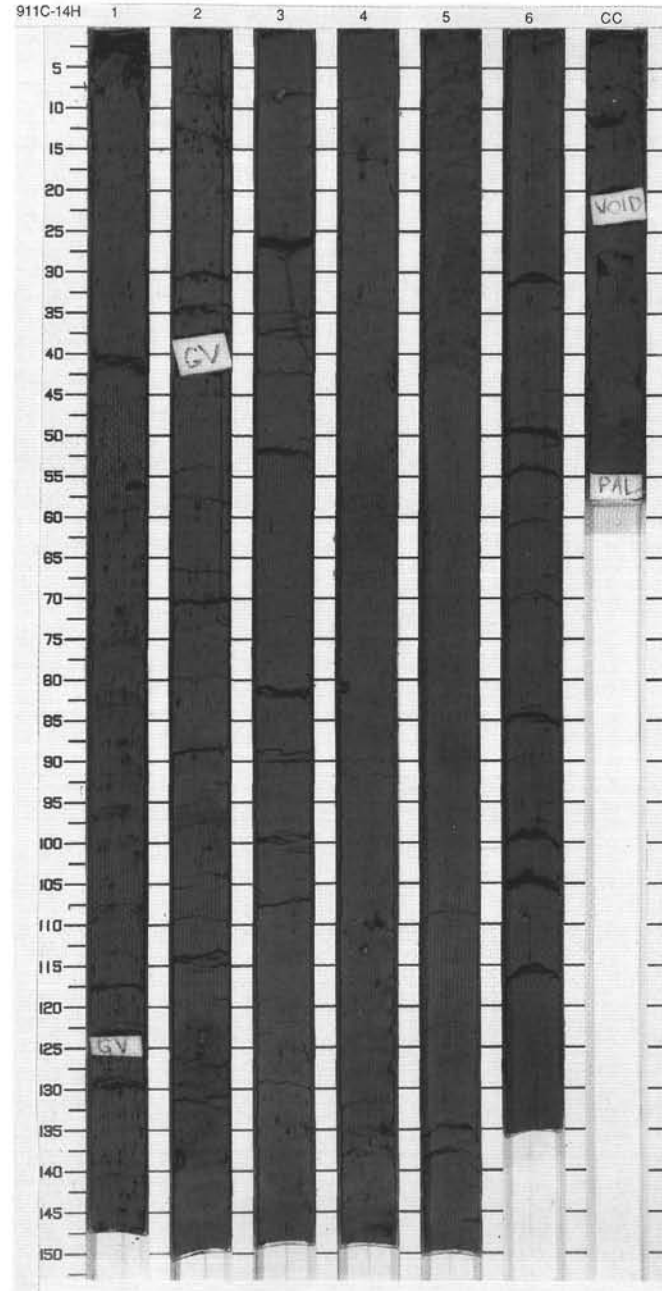
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1			WWW			<p>CLAYEY SILT and SILTY CLAY</p> <p>Major Lithologies: Fairly soft, very dark gray (5Y 3/1) CLAYEY SILT and SILTY CLAY, with common mm-size iron-sulfide concretions. Firm dark greenish gray (5GY 4/1) CLAYEY SILT and SILTY CLAY occurs from Section 5, 136 cm to Section 8, 12 cm, Section 6, 72-84 cm, and Section 6, 138 cm to Section 7, 92 cm.</p> <p>General Description: Upper four sections and most of Section 5 contain numerous soupy sections, gas voids and water/gas release structures, indicative of severe disturbance during core retrieval.</p>
2	Void	2			WWW			
3	[Hatched pattern]	3			WWW			
4	[Hatched pattern]	3			WWW		5Y 3/1	
5	[Hatched pattern]	4	Quaternary	◆	WWW			
6	[Hatched pattern]	5			WWW			
7	[Hatched pattern]	5			WWW			
8	[Hatched pattern]	6		■	WWW	S	5GY 4/1	
9	[Hatched pattern]	6			WWW	S	5Y 3/1	
10	[Hatched pattern]	7		◆	WWW	S	5GY 4/1 To 5Y 3/1	
CC						M		



SITE 911 HOLE C CORE 14H

CORED 108.9 - 118.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		}}		S	5Y 2.5/1	<p>CLAYEY SILT and SILTY MUD</p> <p>Major Lithologies: The core is dominated by relatively coarse CLAYEY SILT, homogeneous and very dark gray (5Y 3/1) to black (5Y 2.5/1). Only traces of burrowing vary between scattered numerous dark Fe-sulfide pods, less numerous larger burrow fills, indistinct small dark patches or diffuse dark layers. SILTY MUD occurs as beds 10 to 30 cm thick with commonly gradational lower and upper contacts. They are distinguished by a coarser texture and a slightly more brown color (10YR 3/1). They are structureless or mottled and can contain granules.</p> <p>General Description: Dropstone: Section 3, 4 cm, Ø 1.5 cm, friable sandstone.</p>
2	[Hatched pattern]	2		}}		S		
3	[Hatched pattern]	3		}}		S		
4	[Hatched pattern]	4	Quaternary	}}		S	5Y 2.5/1 To 10YR 3/1	
5	[Hatched pattern]	5		}}		S		
6	[Hatched pattern]	6		}}		S		
7	[Hatched pattern]	7		}}		S		
8	[Hatched pattern]	8		}}		S	5Y 3/1	
9	[Hatched pattern]	9		}}		S		
		CC				M		



SITE 911 HOLE C CORE 15H CORED 118.4 - 127.9 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	S	---			SILTY CLAY
2	[Hatched pattern]	2	S	---	S	5Y 3/1	Major Lithology: Homogeneous, very dark gray (5Y 4/1) and very dark gray (10YR 3/1) color bands occur in some intervals. Black sulfides patches and pods are common in all sections, except Section 5, 8, and CC. A few sand-filled burrows are scattered throughout the core. A 0.5-cm calcitic concretion is present in Section 5, 53 cm.
3	[Hatched pattern]	3	S	---	S	10YR 3/1	Minor Lithology: A 4-cm-thick layer of CLAYEY CARBONATE, dark gray (5Y 4/1) occurs in Section 5, 41-45 cm. Contacts to SILTY CLAY are gradational.
4	[Hatched pattern]	4	S	---		5Y 3/1	General Description: Dropstones: Section 3, 110 cm, Ø 2.4 cm, sandstone; 116 cm, Ø 2.1 cm, laminated clay/sandstone; 135 cm, Ø 1.5 cm, quartz-sandstone.
5	[Hatched pattern]	5	S	---	S	5Y 4/1	
6	[Hatched pattern]	5	S	---	S		
6	[Hatched pattern]	6	S	---	S		
7	[Hatched pattern]	6	S	---		5Y 3/1	
8	[Hatched pattern]	7	S	---			
9	[Hatched pattern]	8	S	---			
10	[Hatched pattern]	CC		---	M		

