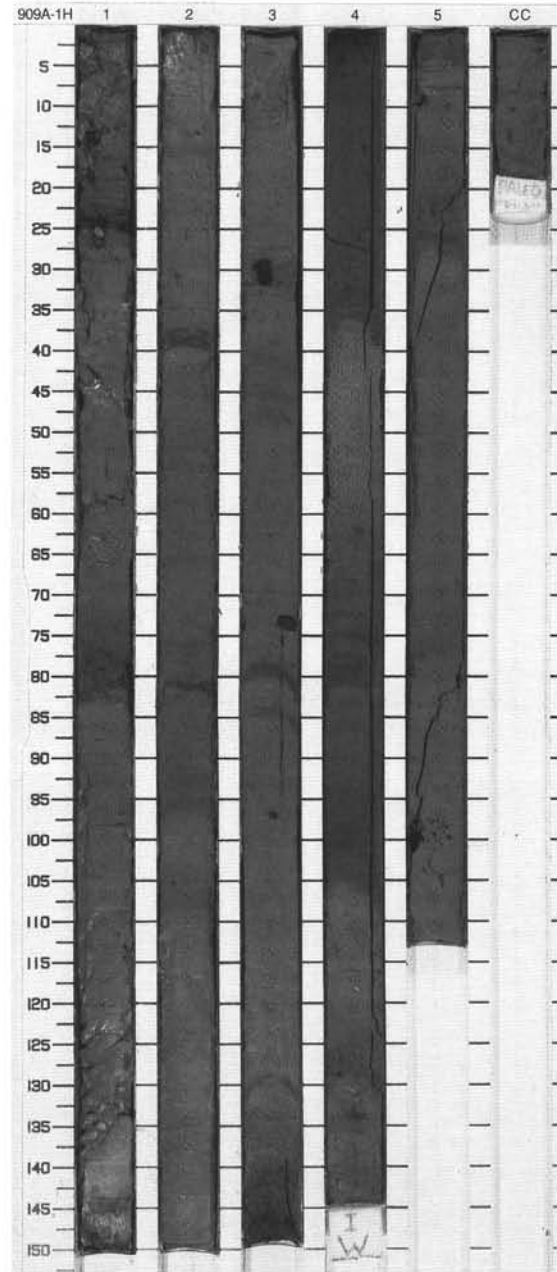


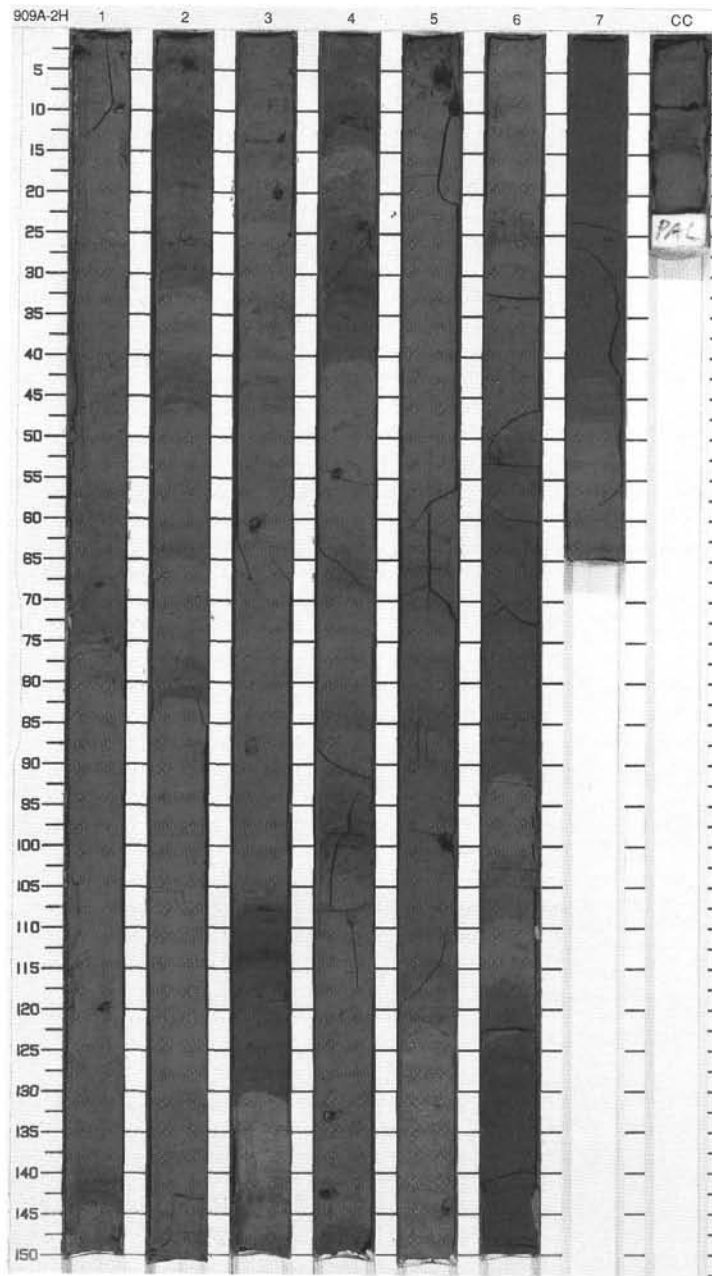
SITE 909 HOLE A CORE 1H CORED 0.0 - 7.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Quaternary	[Symbol]	W	S	7.5YR 3/2 To 5Y 4/2	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, poorly sorted, colors vary between dark grayish brown (2.5Y 4.2), olive gray (5Y 4/2), olive (5Y 4/3), and black (5Y 2.5/2). Color bands of brown to black are present. Gradational contacts are common, sharp contacts are rare.</p>
2	[Symbol]	2		[Symbol]		P		
3	[Symbol]	3		[Symbol]		P	2.5Y 4/2 To 5Y 4/3	<p>Minor Lithology: BIOCARBONATE-BEARING CLAYEY MUD, color varies between dark gray (5Y 4/1) to dark gray (5Y 4/2), poorly sorted, and slightly to moderately bioturbated. Occurs from Section 4, 100 cm, to Section 5, 25 cm.</p>
4	[Symbol]	4		[Symbol]		P		
5	[Symbol]	5		[Symbol]		S		<p>General Description: Dropstones: Section 1, 24 cm, Ø 1.6 cm, angular quartzite. Section 3, 30 cm, Ø 1.7 cm, coal, with additional pieces. Section 3, 73 cm, Ø 2.5 cm, subangular gneiss (dark and light layers).</p>
6	[Symbol]	6		[Symbol]		S	5Y 2.5/2 To 5Y 4/2	
7	[Symbol]	7		[Symbol]		P		
CC		CC				M		

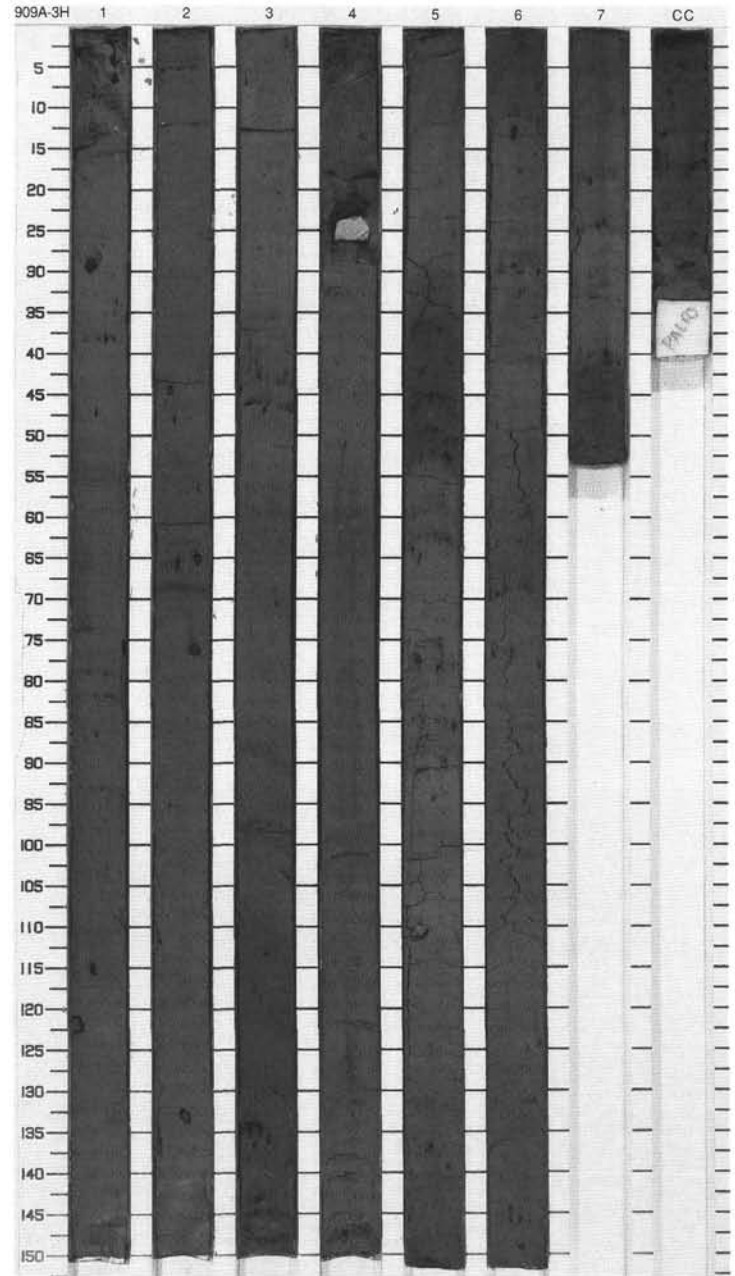


SITE 909 HOLE A CORE 2H CORED 7.5 - 17.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		[Symbol]		P	5Y 4/1	<p>SILTY CLAY and SILTY MUD</p> <p>Major Lithologies: The sediment is characterized by common alternations between slightly to moderately bioturbated SILTY CLAY and massive SILTY MUD. Color varies from light brownish gray (2.5Y 6/2) to dark gray (10YR 5/1). Faint laminations and color bands are common. Thin color laminations cutting burrows in Section 6, ~30 cm, indicate their diagenetic origin, although most of the thin color bands have gradational contacts due to bioturbation.</p> <p>General Description: Dropstones: Section 1, 120 cm, Ø 1.0 cm, shale. Section 3, 19.5 cm, Ø 1.0 cm, angular sandstone; 60 cm, Ø 1.0 cm, rounded sandstone; 88 cm, Ø 1.5 cm, black shale. Section 4, 24 cm, Ø 1.0 cm, rounded sandstone; 54 cm, Ø 1 cm, sandstone; 142 cm, Ø 1.0 cm, phyllite. Section 5, 100 cm, Ø 1.0 cm, shale.</p>
2	[Symbol]	2		[Symbol]		S	7.5YR N5/0	
3	[Symbol]	3		[Symbol]		S	2.5Y 5/2	
4	[Symbol]	4		[Symbol]		P	2.5Y 6/2	
5	[Symbol]	4	Quaternary	[Symbol]		P	10YR 5/1	
6	[Symbol]	5		[Symbol]		P	2.5Y 5/2	
7	[Symbol]	5		[Symbol]		P	5Y 5/1	
8	[Symbol]	6		[Symbol]		P	10YR 4/1	
9	[Symbol]	6		[Symbol]		S	5Y 4/1	
CC	[Symbol]	7		[Symbol]		M	10YR 5/1	

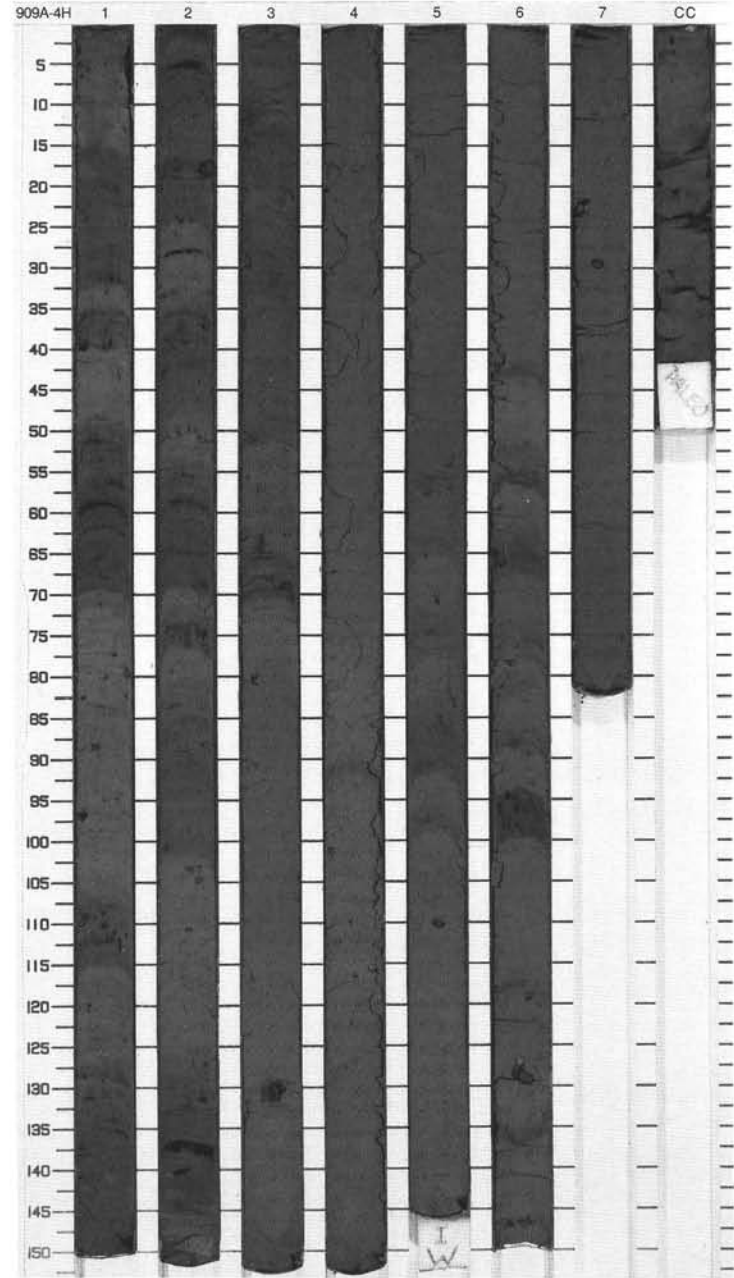


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		◇		P		<p>CLAYEY SILT</p> <p>Major Lithology: CLAYEY SILT, color varies between very dark gray (5Y 3/1), to dark olive gray (5Y 3/2), dark gray (5Y 4/1), olive gray (5Y 4/2), coal fragments and coal clusters are common (Ø up to 2 cm). Black to brown color bands are irregularly distributed throughout the core. Slight to heavy bioturbation is present.</p> <p>General Description: Dropstones: Section 1, 27 cm, Ø 1.5 cm, siltstone; 118 cm, Ø 1.5 cm, shale. Section 2, 65 cm, Ø 1.0 cm, coal; 76 cm, Ø 1.5 cm, coal; 133 cm, Ø 1.4 cm, sandstone. Section 4, 30 cm, Ø 5.0 cm, siltstone. Section 5, 112 cm, Ø 2.0 cm, quartzite. Section 6, 13 cm, Ø 2.0, coal.</p>
2	[Hatched pattern]	2		◇		S P		
3	[Hatched pattern]	3		◇		S S P	5Y 3/1 To 5Y 4/2	
4	[Hatched pattern]	4	Quaternary	◇		P		
5	[Hatched pattern]	5		◇		P		
6	[Hatched pattern]	6		◇		P	5Y 3/1 To 5Y 5/1	
7	[Hatched pattern]	7				M		



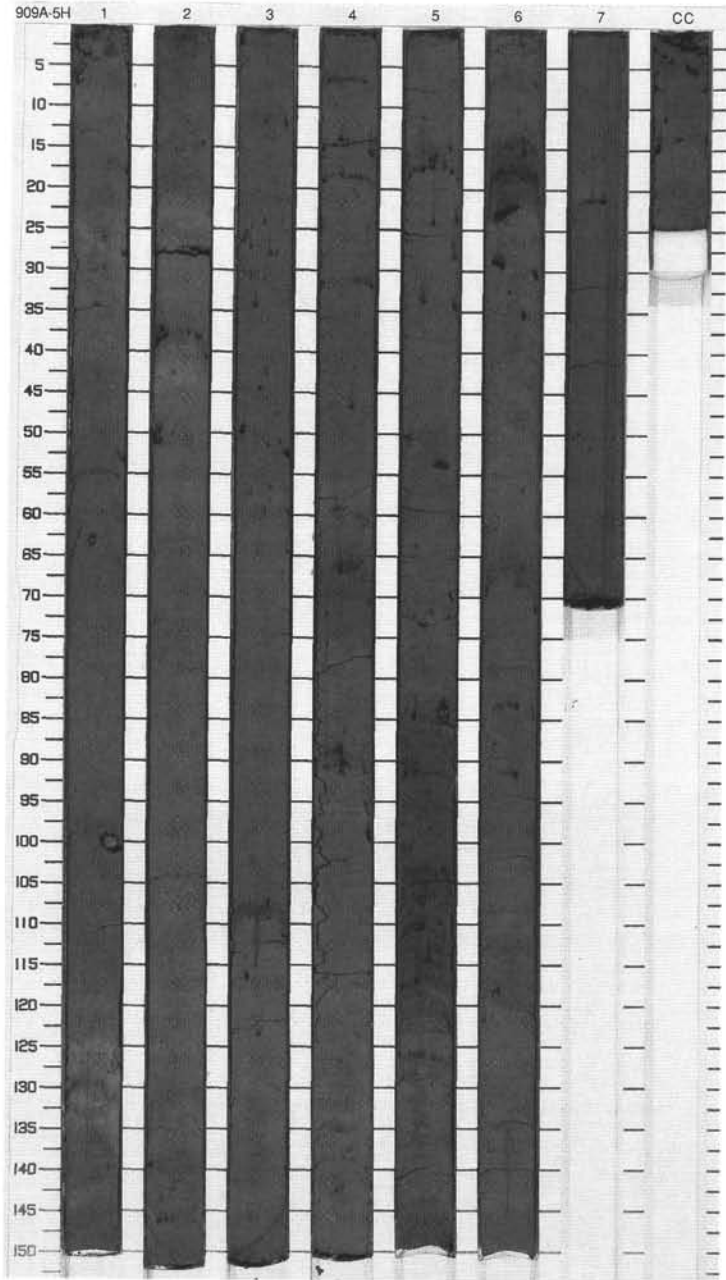
SITE 909 HOLE A CORE 4H CORED 26.5 - 36.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Quaternary	[Wavy lines]		S P		<p>SILTY CLAY AND CLAYEY SILT</p> <p>Major Lithology: SILTY CLAY and CLAYEY SILT, dark gray (5Y 4/1) and very dark gray (5Y 3/1), with some thin black (N3) bands.</p> <p>Minor Lithology: SILTY MUD, very dark gray (5Y 3/1), primarily in Sections 1-3, at the base of the cyclic color units, where the sharp contact is shown in the graphic display. CLAY, dark gray (5Y 4/1), in Section 6, 100-117 cm.</p> <p>General Description: From Section 1, 1 cm to Section 3, 50 cm, SILTY CLAY, CLAYEY SILT, and SILTY MUD form graded layers with coarser, darker sediment at the base. These intervals range in thickness from 22 to 60 cm in length, usually with a longer light, finer layer. Below Section 3, 50 cm, color changes do not correspond with grain-size changes. Bioturbation is usually more visible in the light layers. Black bands are dispersed throughout, but fade and disappear after exposure to air. Some contain concentrations of coarse clasts, others show no grain-size changes.</p> <p>Dropstones: Section 1, 96 cm, Ø 1 cm, coal. Section 2, 17 cm, Ø 1.7 cm, coal; 104, Ø 1.2 cm, quartzite; 104 cm, Ø 1.1 cm, quartzite. Section 3, 67 cm, Ø 1.1 cm, coal; 129 cm, Ø 1.6 cm, coal. Section 4, 115 cm, Ø 1.0 cm, limestone; 115 cm, 1.0 cm, quartzite. Section 5, 110 cm, Ø 1 cm, pink granite. Section 6, 64 cm, Ø 1 cm, siltstone; 127 cm, Ø 1.0 cm, limestone; 128 cm, Ø 1 cm, brown sandstone. Section 7, 22 cm, Ø 1.7 cm black metamorphic; 29 cm, Ø 1.6 cm, black metamorphic.</p>
2	[Hatched pattern]	2		[Wavy lines]		S P		
3	[Hatched pattern]	3		[Wavy lines]		S P		
4	[Hatched pattern]	4		[Wavy lines]		S P	5Y 4/1 To 5Y 3/1	
5	[Hatched pattern]	5		[Wavy lines]		P		
6	[Hatched pattern]	6		[Wavy lines]		P		
7	[Hatched pattern]	7		[Wavy lines]		P		
8	[Hatched pattern]	8		[Wavy lines]		P		
9	[Hatched pattern]	9		[Wavy lines]		P		
10	[Hatched pattern]	10		[Wavy lines]		M		



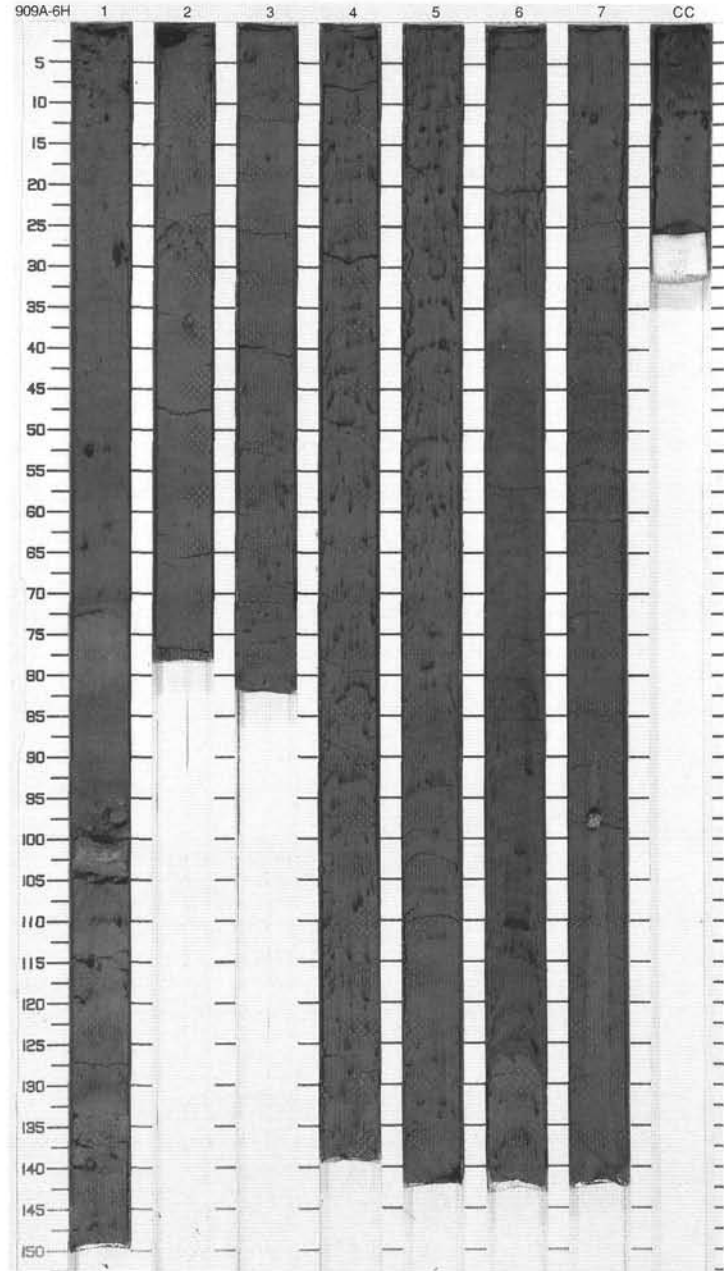
SITE 909 HOLE A CORE 5H CORED 36.0 - 45.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		[Symbol]	I	P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, slightly bioturbated, color varies between olive gray (5Y 4/20) and very dark gray (5Y 3/1). Black and brown color bands are irregularly distributed over the entire core. Coal fragments (Ø 1.0 cm) are also scattered throughout.</p> <p>General Description: Dropstones: Section 1, 63 cm, Ø 1.0 cm, siltstone; 104 cm; Ø 2.0 cm, quartzite. Section 5, 98 cm, Ø 3.0 cm, siltstone.</p>
2	[Symbol]	2		[Symbol]		S		
3	[Symbol]	3		[Symbol]		P		
4	[Symbol]	4	Quaternary	[Symbol]		P	5Y 3/1 To 5Y 4/2	
5	[Symbol]	5		[Symbol]		P		
6	[Symbol]	6		[Symbol]		P		
7	[Symbol]	7		[Symbol]		P		
8	[Symbol]	8		[Symbol]		P		
9	[Symbol]	9		[Symbol]		P		
CC	[Symbol]	CC		[Symbol]		M		



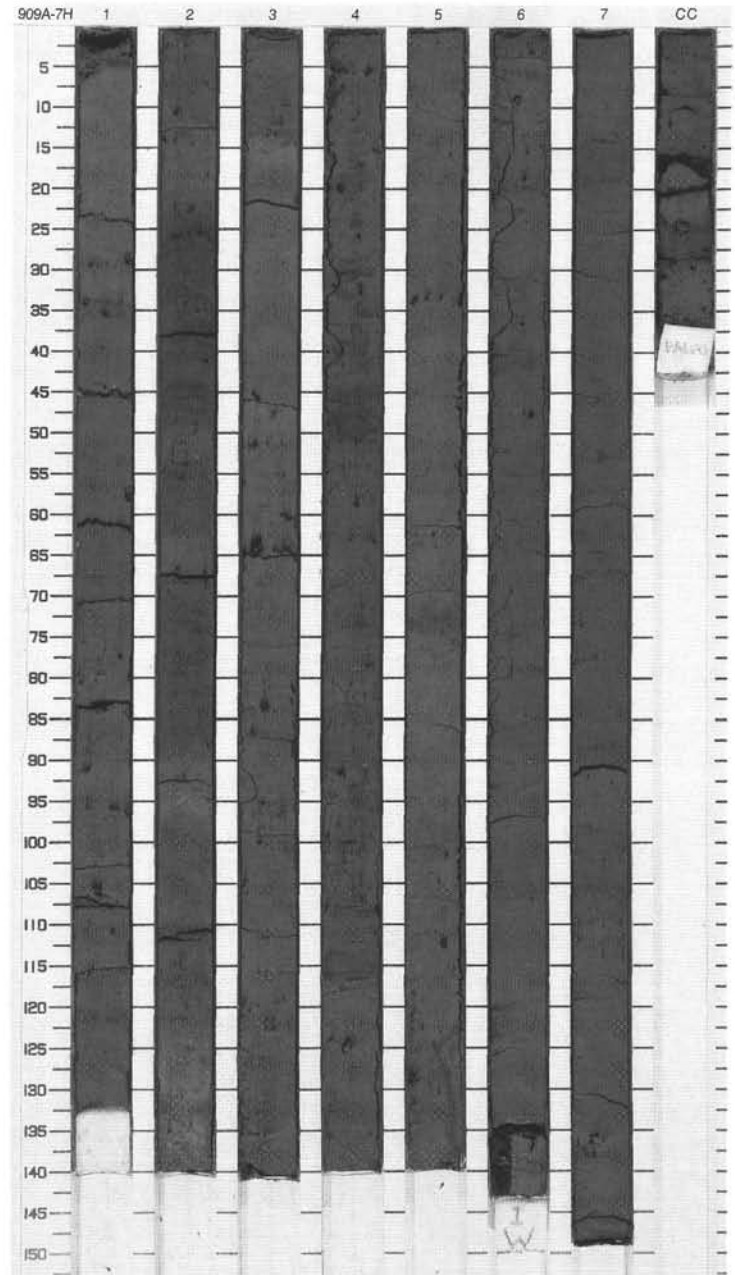
SITE 909 HOLE A CORE 6H CORED 45.5 - 55.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Quaternary	[Symbol]	[Symbol]	P	10Y 3/1 To 10Y 4/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, dark gray (10Y 4/1) and very dark gray (10Y 43/1), dominates.</p> <p>Minor Lithologies: SILTY MUD, very dark gray (10Y 3/1), in Section 6, 130-150 cm and Section 7, 38-68 cm. CARBONATE-BEARING SILTY CLAY, dark gray (10Y 4/1) is present in Section 1, 70-100 cm, above a layer which contains either a carbonate dropstone or is undergoing diagenesis. The layer is slightly lighter and browner than the surrounding sediment.</p> <p>General Description: Distinct color cycles 15 to 70 cm long, dark at base and light at top occur from Section 1, 1 cm, to Section 3, 30 cm. The darker layers tend to be slightly coarser. Section 3, 30 cm, to Section 5, 70 cm, contain abundant dark clasts. Section 6, 30-130 cm, contains six short fining-upward cycles. Thin dark bands that fade on exposure to air are present throughout. Carbonate in Section 1, 95-100 cm, is interpreted to be a dropstone, but may be diagenetic. The sediment above it contains fine carbonate particles.</p> <p>Dropstones: Section 1, 51 cm, Ø 1.0 cm, coal; 95 cm, Ø 5.0 cm, limestone; 139 cm, Ø 1.5 cm, gray limestone. Section 2, 17 cm, Ø 1.7 cm, coal; 36 cm, Ø 1.0 cm, gray quartzite. Section 7, 97 cm, Ø 3.0 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				P		
9	[Symbol]	9				P		
		CC		M				



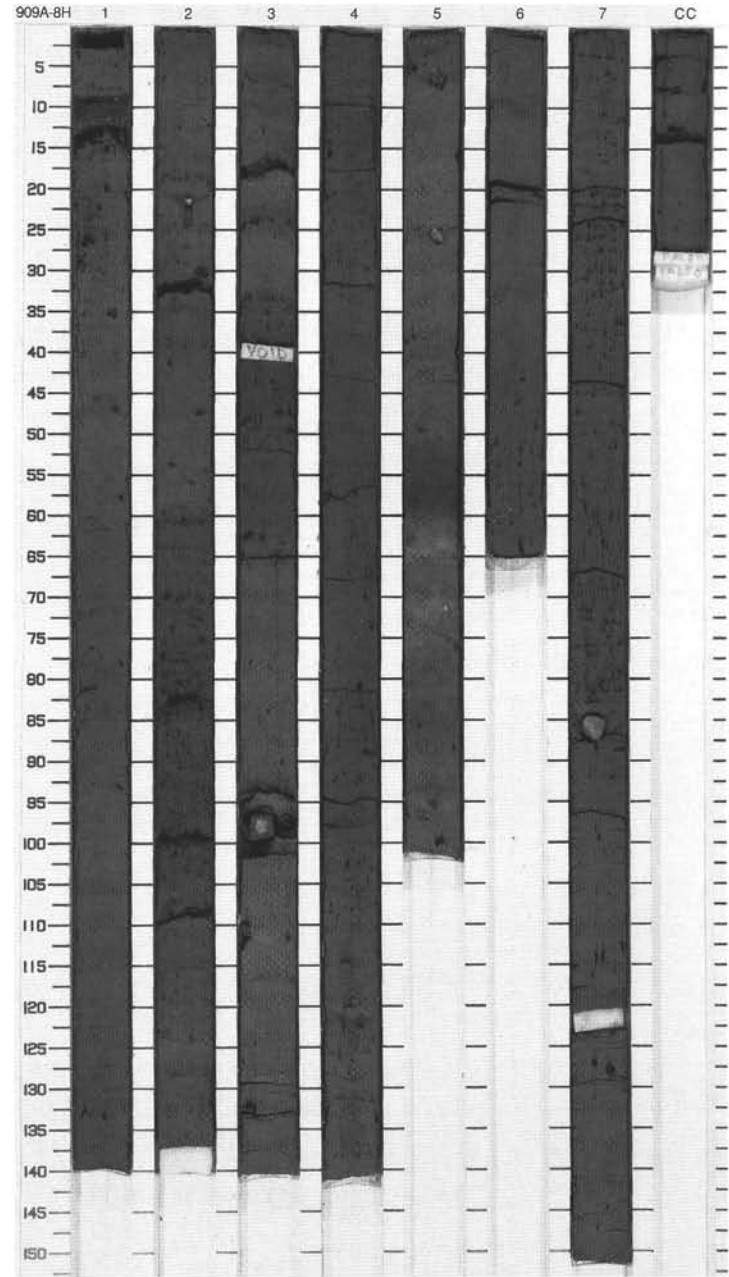
SITE 909 HOLE A CORE 7H CORED 55.5 - 65.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	Quaternary	◆	—	P	10Y 4/1 To 10Y 3/1	SILTY CLAY
2	[Pattern]	2	Quaternary	◆	—	S	10Y 3/1 To 5Y 3/1	Major Lithology: Very dark gray (10Y 3/1) SILTY CLAY, strongly mottled due to disturbance related to gas expansion and presence of common small mud clasts. Discrete mud clasts are commonly associated with thin black layers. SILTY CLAY is more massive in Section 7, and contains fewer mud clasts.
3	[Pattern]	3	Quaternary	◆	—	S	5GY 4/1	Minor Lithologies: (Brown) very dark gray (5Y 3/1) CLAYEY MUD with ~15 % sand alternates in 10–20-cm-thick bands with dominant SILTY CLAY from Section 2, 22 to Section 3, 14 cm, and is found in Section 7, 100–114 cm.
4	[Pattern]	4	Quaternary	◆	—	P	10Y 4/1	Dark greenish gray (5GY 4/1) SILTY CLAY occurs in Section 3, 14–46 cm. Black (5Y 2.5/1) SILTY CLAY occurs in Section 4, 42–58 cm.
5	[Pattern]	5	Quaternary	◆	—	S	10Y 4/1	General Description: Voids related to drilling disturbance caused by gas expansion are present in each section from ~140 to 150 cm, except Section 7.
6	[Pattern]	6	Quaternary	◆	—	P	10Y 4/1	Dropstones: Section 4, 116 cm, Ø 1.6 cm. Section 7, 134 cm, Ø 1.0 cm. Section CC, 23 cm, Ø 1.0 cm.
7	[Pattern]	7	Quaternary	◆	—	P	10Y 4/1	
8	[Pattern]	8	Quaternary	◆	—	P	10Y 4/1	
9	[Pattern]	9	Quaternary	◆	—	I		
10	[Pattern]	10	Quaternary	◆	—	S		
11	[Pattern]	11	Quaternary	◆	—	P	5Y 3/1	
12	[Pattern]	12	Quaternary	◆	—	M		



SITE 909 HOLE A CORE 8H CORED 65.0 - 74.0 mbsf

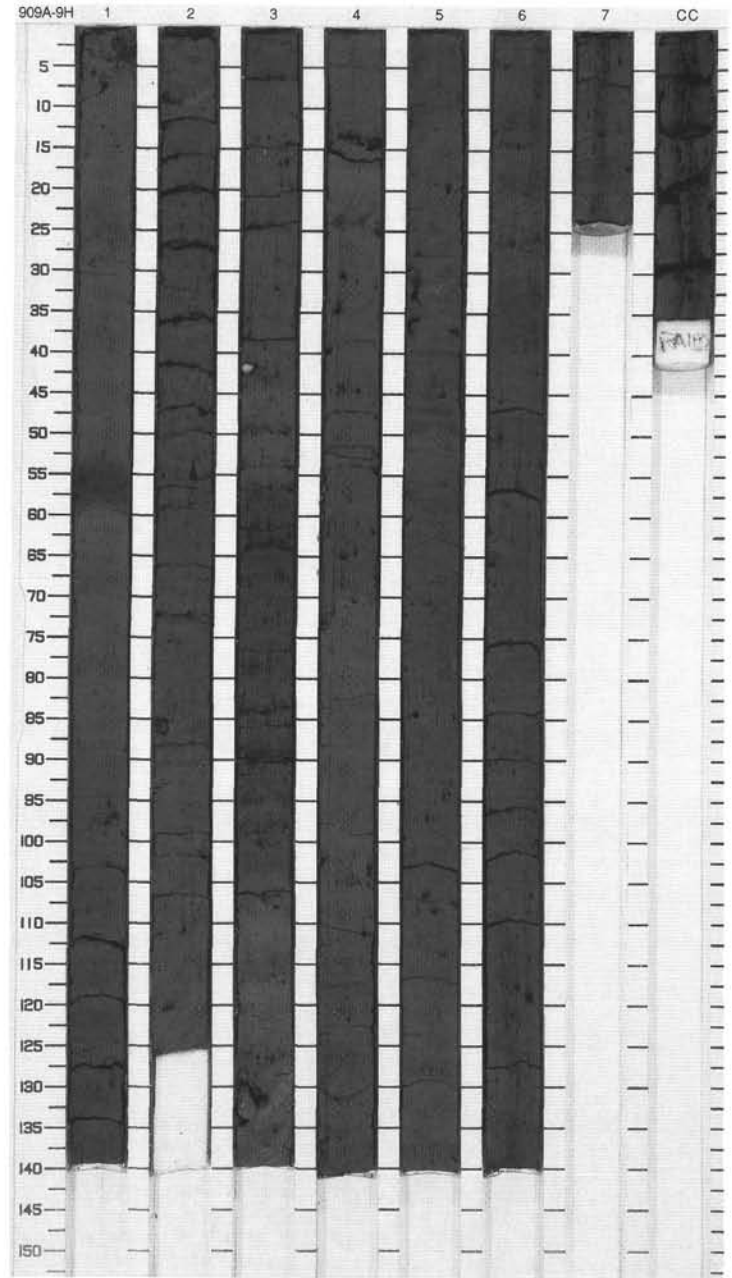
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Quaternary			S S	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), homogeneous but may exhibit faint color banding. Black (5Y 2.5/1) and dark gray (5Y 4/1) sandy pockets, possibly after burrows, occur throughout the core. The black pockets are abundant in discontinuous layers in Section 2, 61–110 cm; Section 6, 42–65 cm; and Section 7, 0–93 cm. Silt- and sand-sized grains include quartz (25%–30%), and minor amounts of feldspar, accessory minerals, and opaques.</p> <p>Minor Lithologies: CLAYEY CARBONATE, gray and dark gray (5Y 5/1, 5Y 4/1), occurs in Section 1, 9–12 cm; Section 5, 59–85 cm. In Section 1, the carbonate layer has a sharp top and grades into CARBONATE CLAYEY MUD. In Section 5, the carbonate layer is mottled; this may be due to bioturbation or incipient concretions. Clay-sized calcite makes up 65%–70% of the constituents. CARBONATE CLAYEY MUD, black (5Y 2.5/1), underlies CLAYEY CARBONATE in Section 1 and has a bioturbated bottom contact. Major components include opaques (44%), clay-sized carbonate (25%), and clay (20%).</p> <p>General Description: Dropstones: Section 2, 21 cm, Ø 1.0 cm, dolostone. Section 3, 96 cm, Ø 3.0 cm, basalt. Section 5, 25 cm, Ø 1.5 cm, quartzite. Section 7; 84 cm, Ø 3.5 cm, basalt.</p>
2	[Hatched pattern]	2				S P		
3	[Hatched pattern]	3				P		
4	[Hatched pattern]	4				S P		
5	[Hatched pattern]	5				P		
6	[Hatched pattern]	6				P		
7	[Hatched pattern]	7				S P		
8	[Hatched pattern]	8				P		
9	[Hatched pattern]	9				P		
		CC				M		



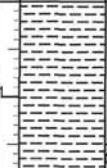
SITE 909 HOLE A CORE 9H

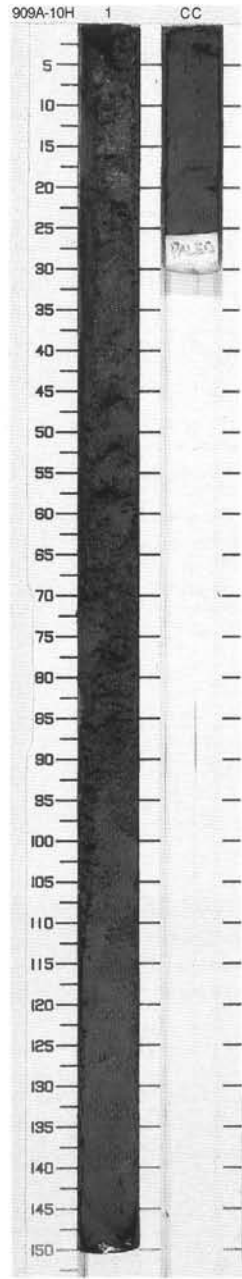
CORED 74.0 - 82.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Quaternary	[Wavy lines]		P	5Y 4/1	<p>SILTY CLAY and CLAY</p> <p>Major Lithologies: SILTY CLAY, very dark gray (5Y 3/1) or dark gray (5Y 4/1), homogeneous to slightly bioturbated is present in the following intervals; Section 1, 0 cm to Section 3, 143 cm and Section 5, 0 cm to bottom of Core Catcher. Numerous color bands, dark olive gray (5Y 3/2), dark gray (5Y 4/1) and black (5Y 2.5/1) are present in distinct intervals. Includes quartz, feldspar, volcanic glass, inorganic calcite, accessory minerals and opaque minerals. Pockets of black sediment, sometimes with sand-sized pyrite crystals, are common. Structureless CLAY, very dark gray (5Y 3/1) is present from Section 3, 143 cm to Section 4, 150 cm. Black and dark olive gray (5Y 3/2) color bands are common. Coarse fraction includes quartz, feldspar, volcanic glass and opaque minerals.</p> <p>Minor Lithology: One dark brownish gray (10YR 3/2) layer of CLAYEY CARBONATE occurs in Section 6, 18-27 cm.</p> <p>General Description: Slightly fractured due to high outgassing. Dropstones: Section 2, 86 cm, Ø 1.2 cm, black siltstone. Section 3, 42 cm, Ø 1.2 cm, light gray claystone. Section 3, 108 cm, Ø 1.4 cm, sandstone. Section 3, 132 cm, Ø 4.5 cm, schist.</p>
2	[Hatched pattern]	2		P				
3	[Hatched pattern]	3		S				
4	[Hatched pattern]	3		P				
5	[Hatched pattern]	4		P				
6	[Hatched pattern]	4		P				
7	[Hatched pattern]	5		S				
8	[Hatched pattern]	6		P				
9	[Hatched pattern]	7		P				
		CC	M					

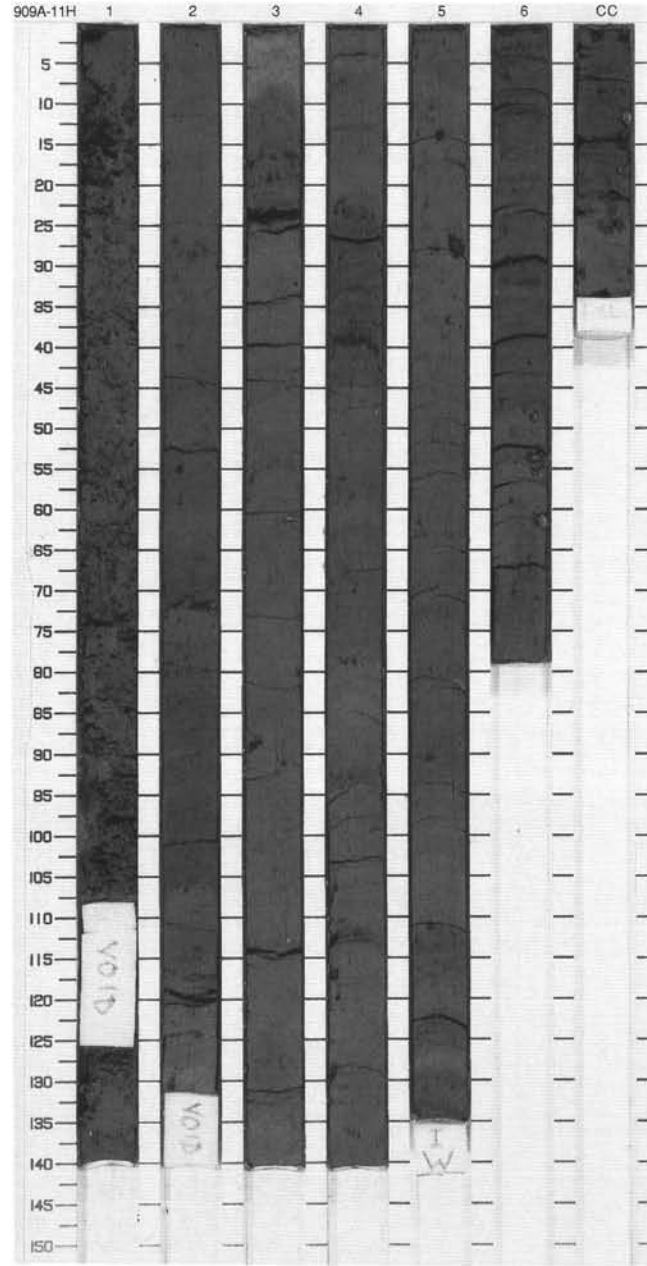


SITE 909 HOLE A CORE 10H CORED 82.6 - 84.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	Quaternary			P M	5Y 3/1	SILTY CLAY Major Lithology: Slightly bioturbated very dark gray (5Y 3/1) SILTY CLAY. Section 1, 0-132 cm very disturbed. Pockets of black (5Y 2.5/1) coarser sediment are present.

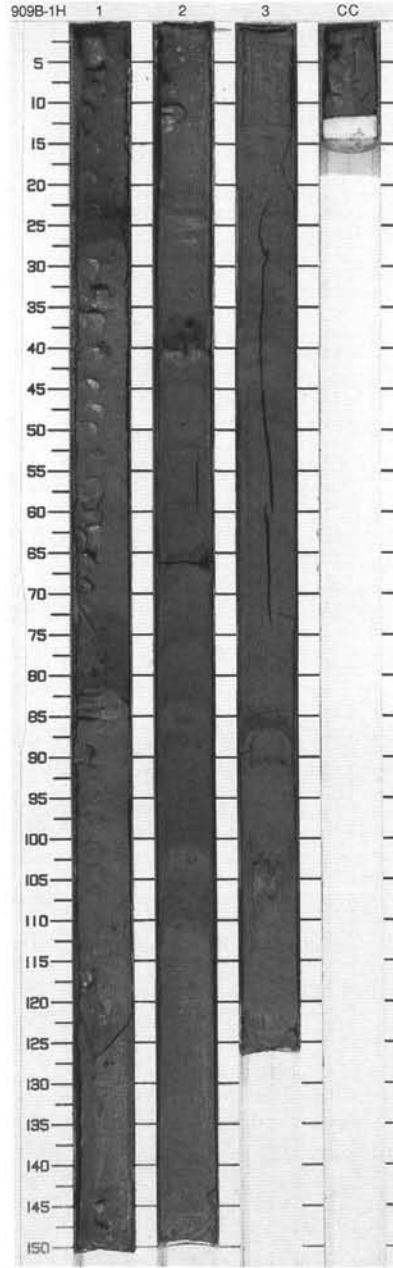


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Quaternary		www	P	5Y 3/1	<p>SILTY CLAY and CLAYEY MUD</p> <p>Major Lithologies: SILTY CLAY, very dark gray (5Y 3/1, 10Y 3/1), is relatively homogeneous and contains black (5Y 2.5/1) sandy pockets, possibly after burrows, scattered throughout the core. Locally, the black sediment occurs in discontinuous layers, notably in Section 4, 0-25 cm, 45-141 cm, and Section 5. White (quartz?) pods, mm-sized, occur in Sections 3 to CC. Silt- and sand-sized grains in SILTY CLAY include quartz (15%-25%), feldspar (5%-10%); and minor amounts of calcite, accessory minerals, and opaques. CLAYEY MUD, very dark gray (5Y 3/1, 10Y 3/1), may show color banding and discontinuous black (5Y 2.5/1) laminae.</p>
	Void							
2		2		S				
				P				
3		3		S				
				P				
4		4		S				
				P				
5		4	S		<p>Minor Lithologies: Homogeneous CLAYEY CARBONATE, dark gray (5Y 4/1), in Section 3, 0-7 cm. It contains clay-sized calcite (65%), clay (15%), quartz (17%), and minor accessory minerals and opaques. CARBONATE CLAYEY MUD in Section 4, 25-45 cm contains clay-sized (nonbiogenic) calcite, up to 30%.</p>			
6		5	P					
			P		<p>General Description: Dropstones: Section 2, 71 cm, Ø 1.5 cm, siltstone. Section 3, 61 cm, Ø 1.0 cm, dolostone. Section 6, 53 cm, Ø 2.0 cm, sandstone; 60 cm, Ø 1.5 cm, quartzite. Section CC, 10 cm, Ø 1.5 cm, dolostone.</p>			
7		6	I					
			P					
8		CC	M					

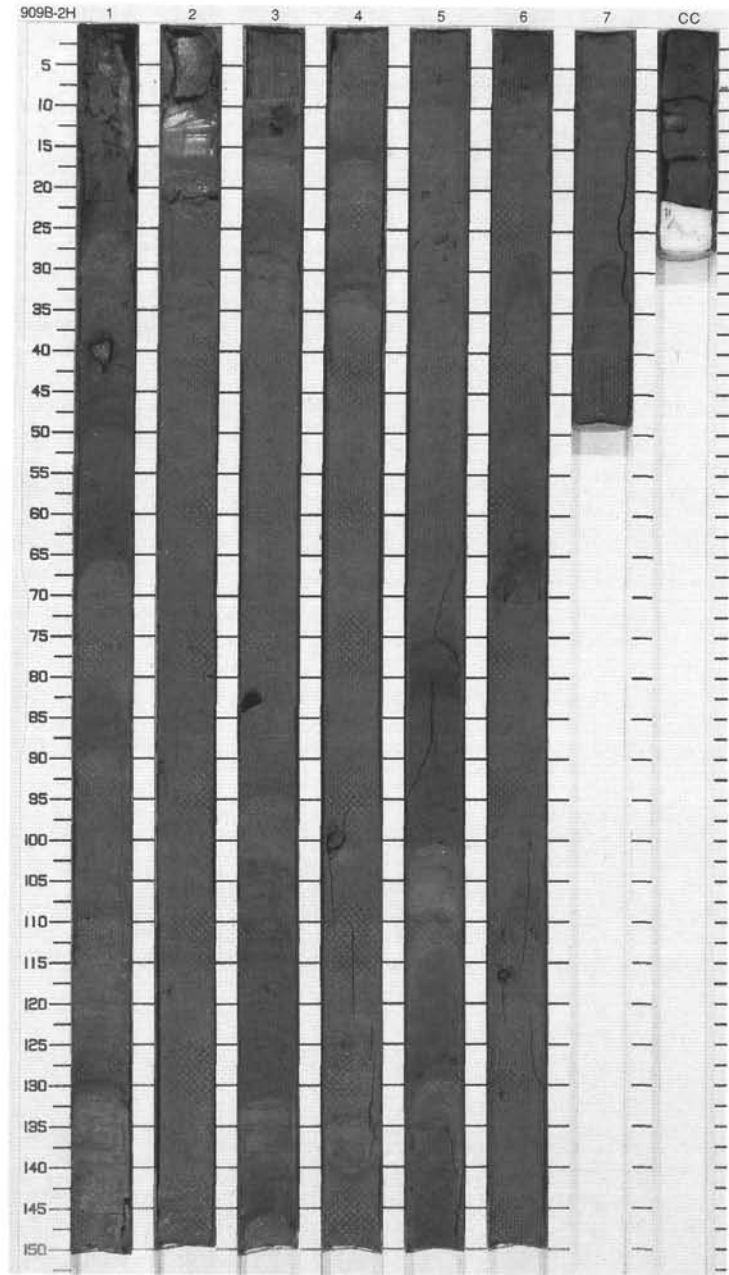


SITE 909 HOLE B CORE 1H CORED 0.0 - 4.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Quaternary	[Symbol]		S P	2.5Y 4/4	<p>SILTY CLAY</p> <p>Major Lithology: Soft, homogeneous to slightly bioturbated SILTY CLAY. Olive brown (2.5Y 4/4) with dark grayish brown (2.5Y 4/2) and black (5Y 2.2/2) bands, up to 10 cm in thickness. Gradational contacts are most common. In Section 2, 55-113 cm, very dark grayish brown (2.5Y 3/2), olive brown (2.5Y 4/4) and dark grayish brown (2.5Y 4/2) color bands alternate. Some pockets of black, coarser sediment are present. A 9-cm-thick, dark reddish brown (5YR 3/2) layer of CLAY is present in Section 1, 20-29 cm. Upper contact gradational, lower contact sharp.</p>
2	[Symbol]	2		[Symbol]		P P	2.5Y 3/2	
3	[Symbol]	3		[Symbol]		S S	2.5Y 4/4	
4	[Symbol]	4		[Symbol]		S M		

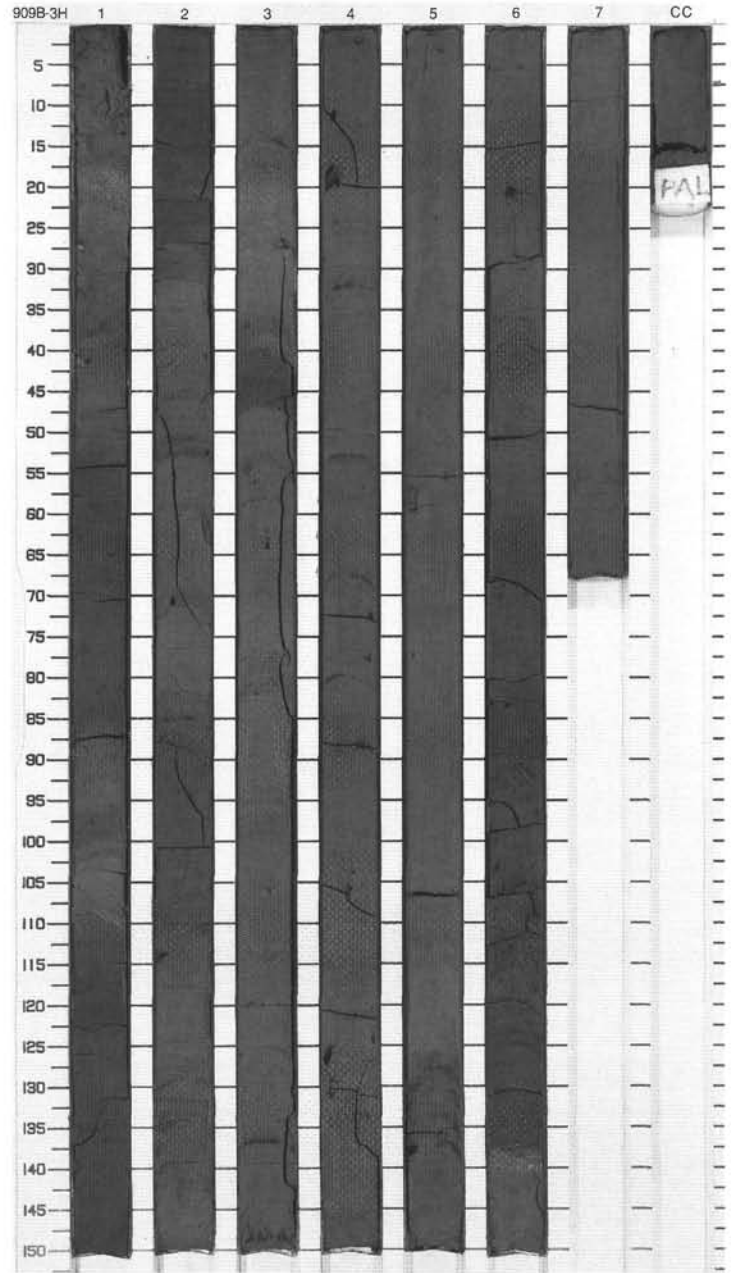


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Quaternary			P	5Y 4/1 To 5Y 4/2	CLAY Major Lithology: CLAY, dark gray (5Y 4/1) is homogeneous but may locally show thin color banding. Silt- and sand-sized grains are quartz and accessory minerals and minor feldspar, calcite, and opaques. CLAY, dark grayish brown (2.5Y 4/2) is homogeneous with thin layers of very dark gray sediment (5Y 3/1) locally. Section 5, 57-61 cm contains scattered mollusk shells (<1 cm in size). Quartz is the dominant silt-size component.
2		2				S P	5Y 4/1 To 5Y 4/2	
3		3				P	5Y 4/1 To 5Y 4/2	Minor Lithologies: CLAYEY MUD, olive gray (5Y 4/2), is characteristically color banded and interbedded with dark gray (5Y 4/1) CLAY. Silt- and sand-sized grains include quartz (30%), feldspar (10%) and minor accessory minerals, and opaques. SILTY CLAY, olive gray (5Y 4/2), is homogeneous to faintly color banded and commonly interbedded with dark gray (5Y 4/1) CLAY in Sections 1 to 4. Silt-sized grains are quartz and minor feldspar, accessory minerals, calcite, and opaques. CLAYEY MUD, very dark gray (5Y 3/1), is typically homogeneous and has sharp bottom contacts with dark gray (5Y 4/1) CLAY. Quartz predominates and feldspar, accessory minerals, opaques, and glauconite are minor components.
4		4				P	5Y 4/1 To 5Y 4/2	
5		5				P	2.5Y 4/2	General Description: Dropstones: Section 1, 39 cm, Ø 3.0 cm, sandstone. Section 2, 1 cm, Ø 8.0 cm, granodiorite. Section 3, 97 cm, Ø 3.0 cm, shale. Section 6, 116 cm, Ø 1.5 cm, slate.
6		6				S		
7		7				S P		
8		8				P	5Y 4/1 To 5Y 4/2	
9		9				P		
CC		CC			M			

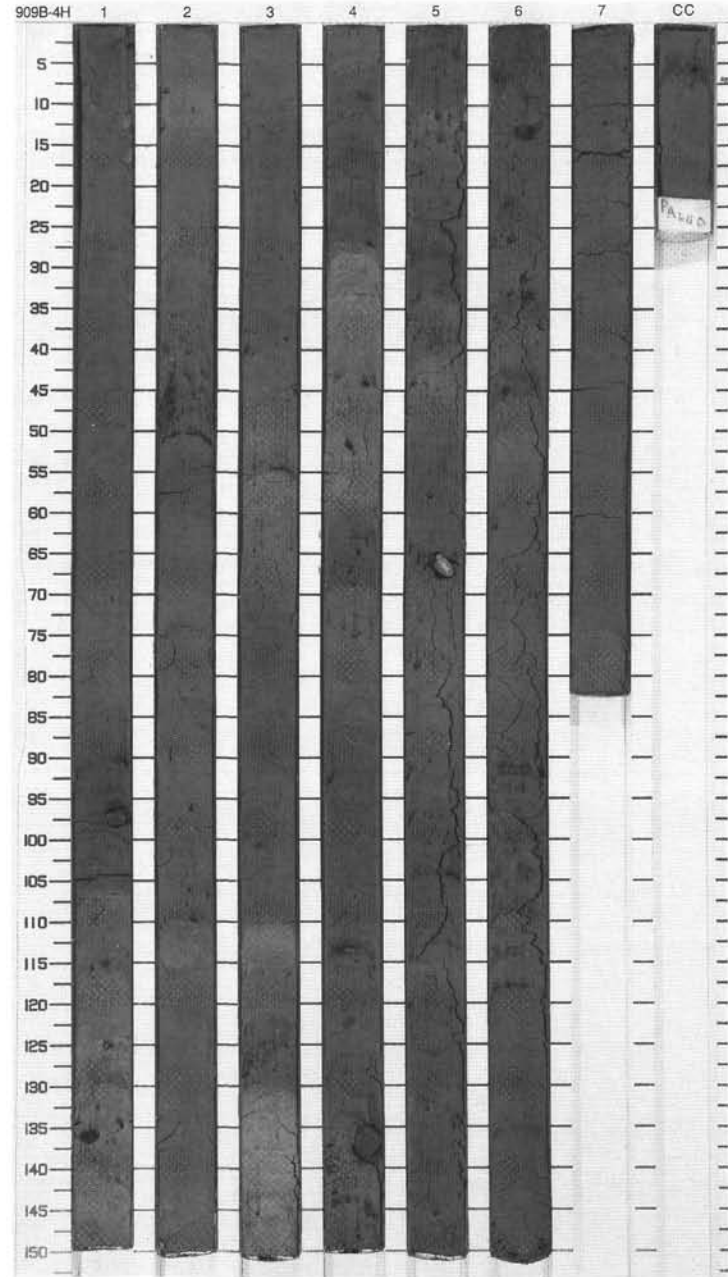


SITE 909 HOLE B CORE 3H CORED 13.9 - 23.4 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1	[Symbol]		S P	5Y 5/2	<p>CLAY</p> <p>Major Lithology: Gray (5Y 5/1), dark gray (2.5Y 4/0), olive gray (5Y 5/2), dark olive gray (5Y 3/2), and very dark gray (5Y 3/1) CLAY. Clay content is nearly constant at 80%. Clay minerals and quartz grains are predominant, with minor (<5%) presence of feldspar, volcanic glass, and inorganic calcite.</p> <p>General Description: Core is characterized by color changes which, although contrasting sharply, are marked by gradational contacts. These color variations are not apparent in compositional or textural differences as determined by smear slides. Bioturbation is visible near the color contacts and may occur throughout the core. Sharp basal contacts and contrasting sediments occur in Section 3, 50 cm and Section 6, 140 cm. Color bands are visible in Sections 2 and 3.</p> <p>Dropstones: Section 5, 140 cm, Ø 1.0 cm, coal. Section 6, 53 cm, Ø 5.0 cm, quartz.</p>
					S	5Y 3/1	
					P	5Y 3/1	
2	[Dotted pattern]	2	[Symbol]		P	2.5Y 5/2	
					S	5Y 3/1	
					S	5Y 5/2	
					P	5Y 5/1	
3	[Dotted pattern]	3	[Symbol]		P	2.5Y N4/0 To 5Y 5/1	
4	[Dotted pattern]	4	[Symbol]		P	5Y 5/1 To 5Y 5/2	
5	[Dotted pattern]	5	[Symbol]		S P	2.5Y N3/0 To 5Y 3/1	
6	[Dotted pattern]	6	[Symbol]		P	2.5Y N3/0	
7	[Dotted pattern]	7	[Symbol]		P	2.5Y N3/0	
8	[Dotted pattern]	8	[Symbol]		M		
9	[Dotted pattern]	9	[Symbol]				
10	[Dotted pattern]	10	[Symbol]				
11	[Dotted pattern]	11	[Symbol]				
12	[Dotted pattern]	12	[Symbol]				
13	[Dotted pattern]	13	[Symbol]				
14	[Dotted pattern]	14	[Symbol]				
15	[Dotted pattern]	15	[Symbol]				
16	[Dotted pattern]	16	[Symbol]				
17	[Dotted pattern]	17	[Symbol]				
18	[Dotted pattern]	18	[Symbol]				
19	[Dotted pattern]	19	[Symbol]				
20	[Dotted pattern]	20	[Symbol]				
21	[Dotted pattern]	21	[Symbol]				
22	[Dotted pattern]	22	[Symbol]				
23	[Dotted pattern]	23	[Symbol]				
24	[Dotted pattern]	24	[Symbol]				
25	[Dotted pattern]	25	[Symbol]				
26	[Dotted pattern]	26	[Symbol]				
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150	[Dotted pattern]	150	[Symbol]				

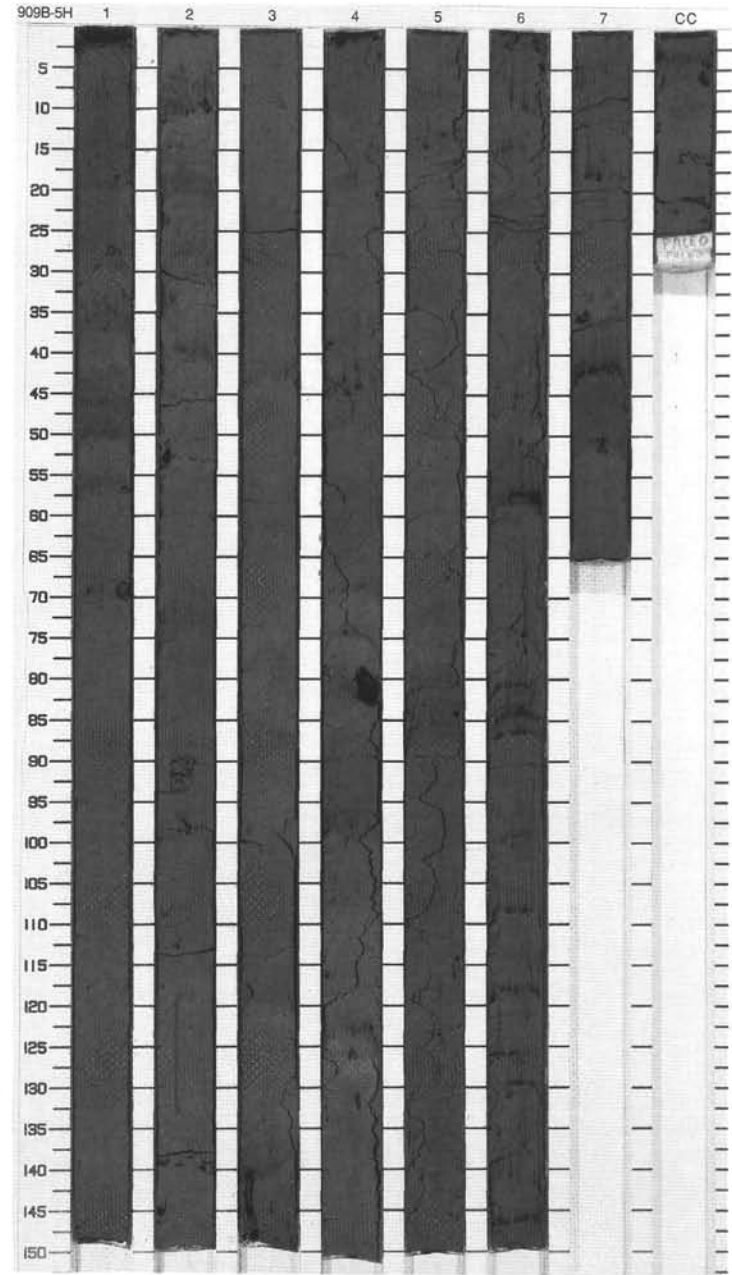


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		[Symbol]		S	5Y 4/1	<p>CLAY</p> <p>Major Lithology: CLAY, homogeneous, color varies from dark olive gray (5Y 3/2) to very dark gray (5Y 3/1) and to dark gray (5Y 4/1). Gradational contacts are more common with often a coarser layer (<0.5 cm thick) at base. Moderately to heavily bioturbated, sometimes mottled; black (5Y 2.5/1) color bands are present. Core contains scattered coal fragments (Ø <2 mm).</p> <p>Minor Lithology: CLAYEY MUD, homogenous and moderate bioturbated, color very dark gray (5Y 3/1) to dark olive gray (5Y 3/2), in Section 4, 80 cm to Section 5, 25 cm.</p> <p>General Description: Dropstones: Section 1, 98 cm, Ø 2.5 cm; 136 cm, Ø 4.0 cm, coal. Section 4, 135, Ø 5.0 cm, siltstone. Section 5, 65 cm, Ø 3.0 cm, quartzite. Section 6, 14 cm, Ø 1.5 cm.</p>
1	[Symbol]			[Symbol]		P		
2	[Symbol]	2		[Symbol]		P		
2	[Symbol]			[Symbol]		P		
3	[Symbol]			[Symbol]		P	5Y 3/1 To 5Y 3/2	
3	[Symbol]	3		[Symbol]		P		
4	[Symbol]			[Symbol]		P		
4	[Symbol]	4	Quaternary	[Symbol]		P		
5	[Symbol]			[Symbol]		P	5Y 4/1	
5	[Symbol]	5		[Symbol]		P	5Y 3/2 To 5Y 3/1	
6	[Symbol]			[Symbol]		P		
6	[Symbol]	6		[Symbol]		P	5Y 4/1	
7	[Symbol]			[Symbol]		S		
7	[Symbol]	7		[Symbol]		P	5Y 3/1 To 5Y 3/2	
8	[Symbol]			[Symbol]		P		
8	[Symbol]	8		[Symbol]		P		
9	[Symbol]			[Symbol]		P	5Y 4/1 To 5Y 4/2	
9	[Symbol]	9		[Symbol]		P		
10	[Symbol]			[Symbol]		M		



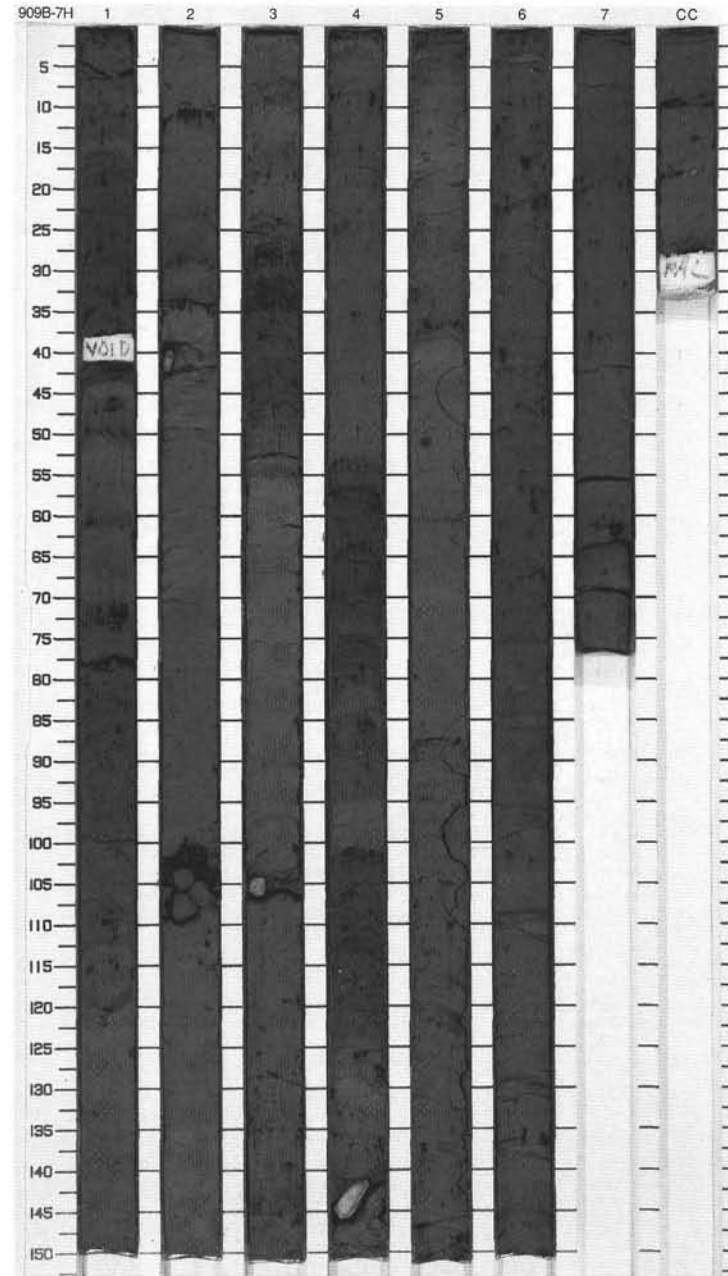
SITE 909 HOLE B CORE 5H CORED 32.9 - 42.4 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1	◇		P		<p>CLAY</p> <p>Major Lithology: CLAY, homogeneous, slightly bioturbated; color varies from very dark gray (5Y 3/1) to dark olive gray (5Y 3/2) to olive (5Y 4/2). Coal particles (<2 mm) are irregularly scattered over the core, black color bands are common. Gradational contacts are dominant.</p> <p>General Description: Dropstones: Section 1, 70 cm, Ø 5.0 cm. Section 2, 92 cm, Ø 2.5 cm, siltstone; 134 cm, Ø 2.5 cm. Section 3, 148 cm, Ø 2.5 cm. Section 4, 80 cm, Ø 3.5 cm siltstone. Section 6, 70 cm, Ø 1.0 cm siltstone. Section 7, 51 cm, Ø 2.5 cm siltstone.</p>
2	[Dotted pattern]	2			P		
3	[Dotted pattern]	3	◇		P		
4	[Dotted pattern]	3			P		
5	[Dotted pattern]	4	◇		S P		
6	[Dotted pattern]	4	◇		P	5Y 3/1 To 5Y 4/2	
7	[Dotted pattern]	5			P		
8	[Dotted pattern]	6			P		
9	[Dotted pattern]	7	◇		P		
CC	[Dotted pattern]	CC			M		

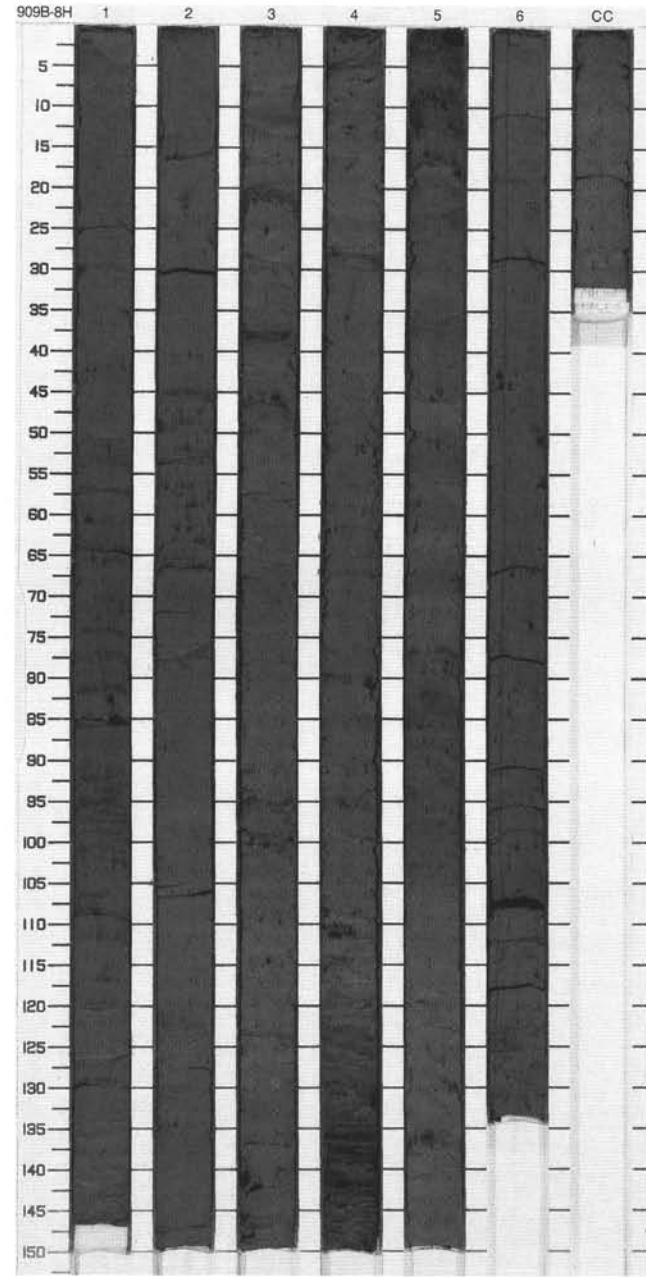


SITE 909 HOLE B CORE 7H CORED 51.9 - 61.4 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1			P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, color varies between very dark gray (5Y 4/1) and dark olive gray (5Y 3/1). Gradational contacts are dominant, moderate amounts of inorganic calcite particles of clay/silt size are present, black color bands (1.0 cm) are common in Sections 1, 2, 3, and 4. Fine coal particles (2 mm) are found over the whole core, moderate bioturbation is typical for color-banded areas.</p> <p>Minor Lithologies: CARBONATE-BEARING CLAY and CARBONATE CLAY, homogeneous, dark olive gray (5Y 4/1), high content of clay/silt size inorganic carbonate grains, slight bioturbation is typical. These layers include the lighter intervals in the core, for example, Section 3, 55-57 cm; Section 5, 14-20 and 37-42 cm. However, they are not always visually obvious, for example Section 1, 91 cm.</p> <p>General Description: Silt clasts are present in Section 6, 15 and 135 cm.</p> <p>Dropstones: Section 1, 46 cm, Ø 1.5 cm, siltstone; 72 cm, Ø 2.0 cm, siltstone. Section 2, 42 cm, Ø 2.0 cm, siltstone; 101 cm, Ø 3.0 cm, siltstone. Section 3, 106 cm, Ø 3.0 cm, siltstone. Section 4, 145 cm, Ø 3.5 cm, siltstone. Section 7, 61 cm, Ø 1.5 cm, coal. Section CC, 17 cm, Ø 1.0 cm, plutonic.</p>
1					S P		
2		2			S P		
3					S P	5Y 3/1 To 5Y 4/1	
3					P		
4		3			P		
5		4			P		
6					P		
6					S P	5GY 4/1	
7		5			P		
8					P	5Y 3/1	
9		6			P		
10		7			P		
		CC			M		

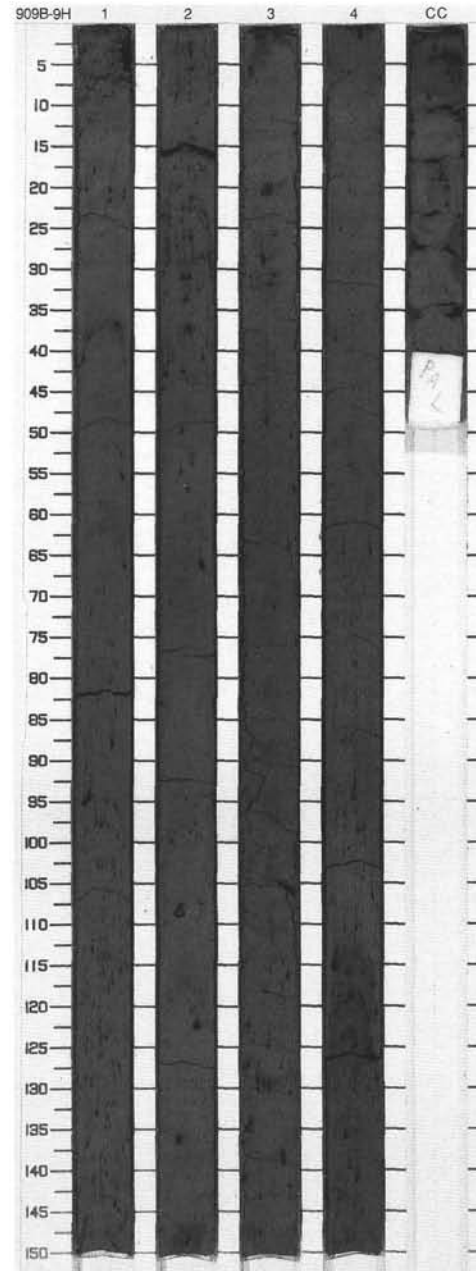


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1		[Symbol]		S	5Y 4/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, color dark olive gray (5Y 4/1), is interrupted by many thin, black (5Y 2.5/1), loose layers of small coal fragments (Ø 1-3 mm). Gradational contacts are dominant, black color bands are common.</p> <p>Minor Lithologies: CLAYEY MUD, color varies between very dark gray (5Y 3/1) to dark olive gray (5Y 4/1), occurs below Section 5, 22 cm. High amounts of inorganic calcite are typical for this lithology.</p> <p>General Description: Mud clasts (Ø 1 cm) occur in Section 1, 65 cm.</p>
2	[Pattern]	2		[Symbol]		P	2.5Y N4/0 To 5Y 4/1	
3	[Pattern]	3		[Symbol]		P	5Y 4/1	
4	[Pattern]	4		[Symbol]		P	5Y 4/1	
5	[Pattern]	4	Quaternary	[Symbol]		P	5Y 4/1	
6	[Pattern]	5		[Symbol]		S	5Y 2.5/1	
7	[Pattern]	5		[Symbol]		P	5Y 3/1 To 5Y 2.5/1	
8	[Pattern]	6		[Symbol]		P	5Y 4/1	
9	[Pattern]	CC		[Symbol]		M		



SITE 909 HOLE B CORE 9H CORED 70.9 - 77.4 mbsf

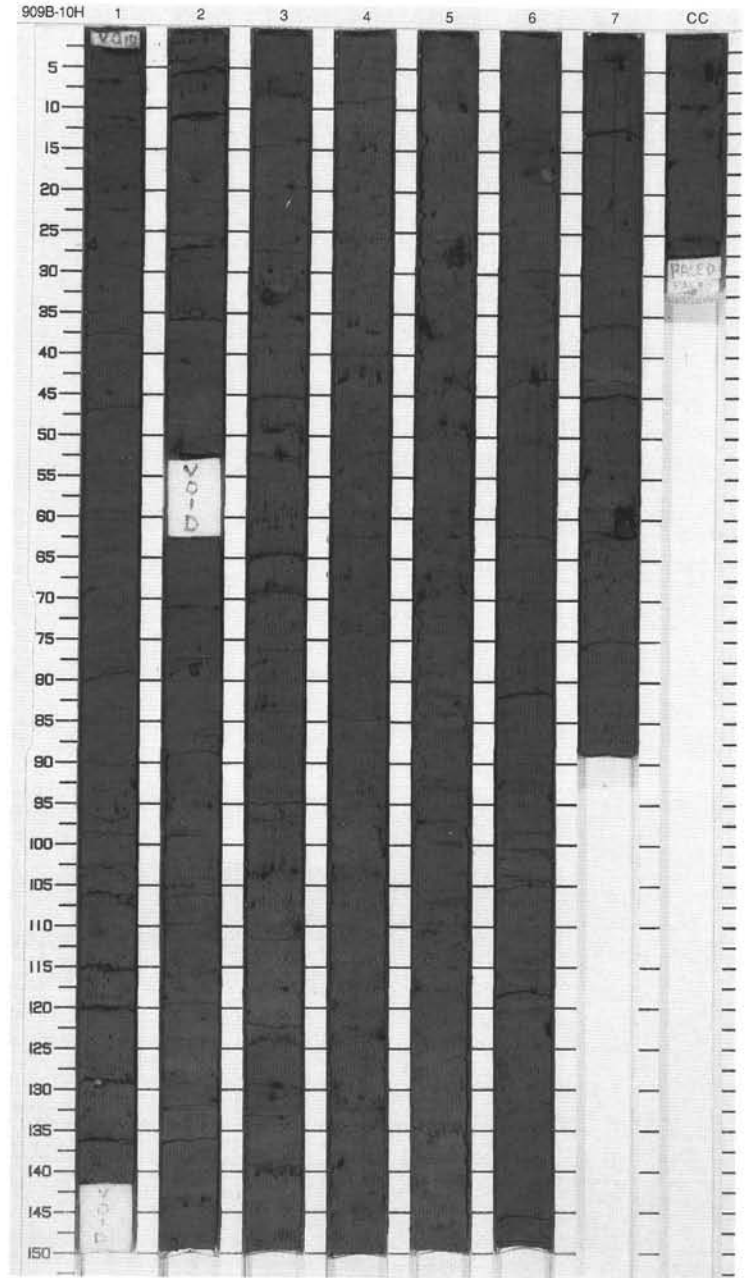
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	
1	[Pattern]	1	Quaternary	[Symbol]	I	P	5Y 3/1 To 5Y 4/1	<p>SILTY MUD</p> <p>Major Lithology: SILTY MUD, homogeneous, slightly bioturbated, color varies between very dark gray (5Y 3/1) to dark olive gray (5Y 4/1). Irregularly distributed coal clasts are common in Section 1, 0-150 cm; Section 2, 0-40 cm; Section 4, 40-150 cm; Section CC, 0-40 cm. Gradational contacts are dominant.</p> <p>General Description: Dropstones: Section 2, 111 cm, Ø 1.0 cm Section 3, 18 cm, Ø 1.5 cm, siltstone</p>	
2	[Pattern]	2		[Symbol]					S
3	[Pattern]	3		[Symbol]					P
4	[Pattern]	4		[Symbol]					P
5	[Pattern]			[Symbol]	S				
6	[Pattern]	CC		[Symbol]	M				



SITE 909 HOLE B CORE 10H

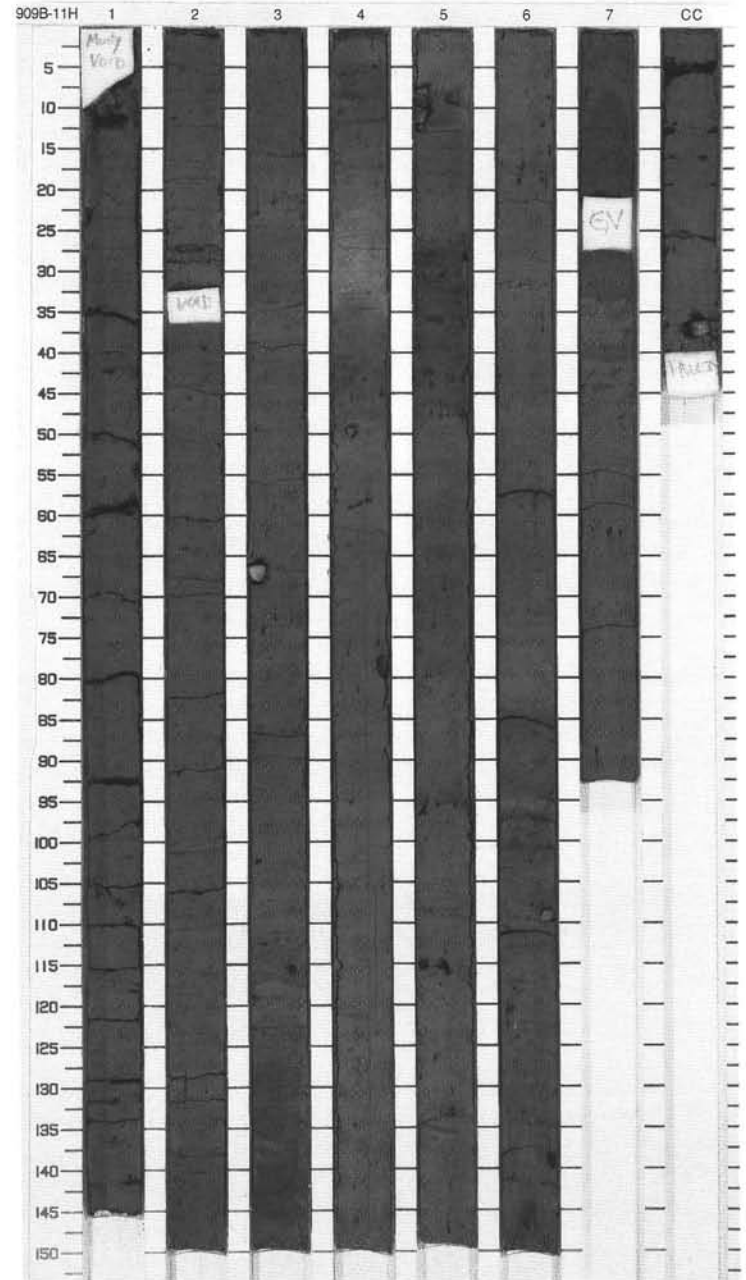
CORED 77.4 - 86.9 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	◇	}}	P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (10Y 3/1 to 5Y 3/1), subtle variations in grain size, and changes in the concentration of clast abundances.</p> <p>General Description: Dropstones: Section 1, 26 cm, Ø 1.0 cm, black limestone; 129 cm, Ø 1.2 cm, buff dolostone. Section 2, 34 cm, Ø 1.6 cm, coal; 78 cm, Ø 1.2 cm, coal. Section 3, 31 cm, Ø 1.6 cm, coal. Section 5, 27 cm, Ø 1.3 cm, black limestone. Section 7, 59 cm, Ø 3.0 cm, coal. Section CC, 5 cm, Ø 2 cm, shale.</p>
2	[Hatched pattern]	2	◇	}}	S P		
3	[Hatched pattern]	3	◇	}}	S		
4	[Hatched pattern]	3	◇	}}	P		
5	[Hatched pattern]	4	◇	}}	P	10Y 3/1 To 5Y 3/1	
6	[Hatched pattern]	4	◇	}}	P		
7	[Hatched pattern]	5	◇	}}	S P		
8	[Hatched pattern]	6	◇	}}	P		
9	[Hatched pattern]	7	◇	}}	S P		
10	[Hatched pattern]	CC	◇	}}	M		

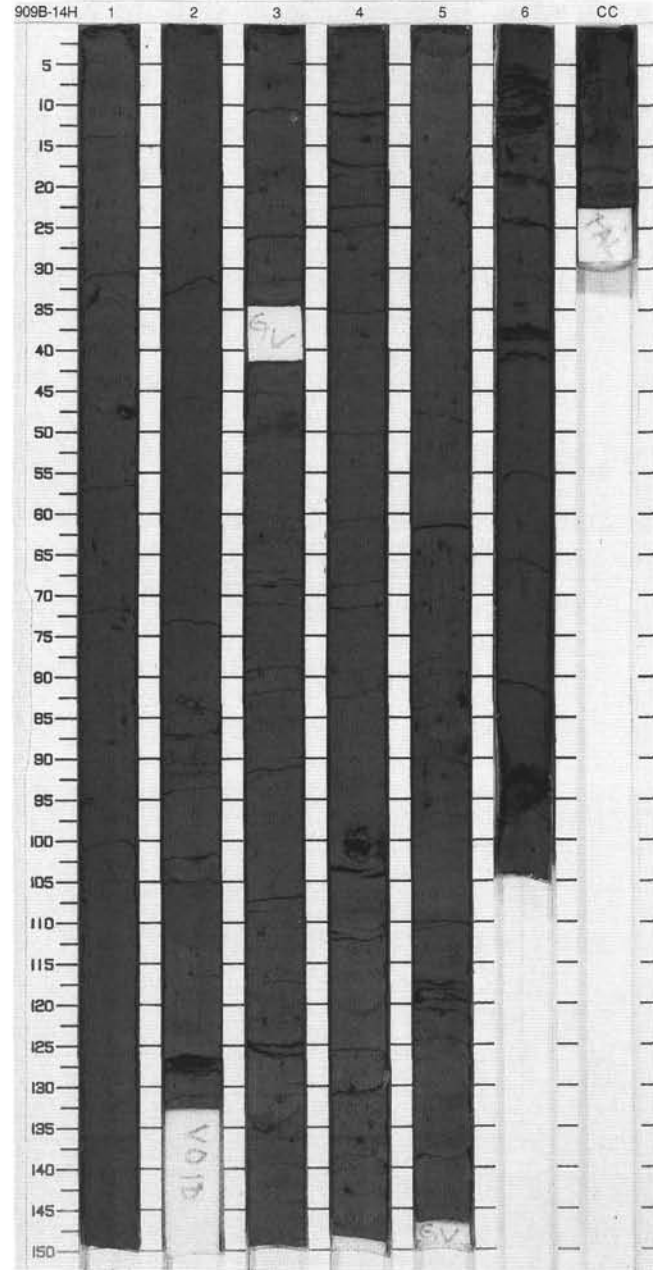


SITE 909 HOLE B CORE 11H CORED 86.9 - 96.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		~	WV	P		<p>SILTY CLAY</p> <p>Major Lithology: Dark gray (10Y 4/1) SILTY CLAY. Quartz content is between 15% and 20%. Feldspar content is between 10% and 15%. Opaques, inorganic calcite, and accessory minerals are minor (<5%) constituents.</p> <p>Minor Lithologies: CARBONATE-BEARING CLAY and CARBONATE-BEARING SILTY CLAY. The CARBONATE-BEARING CLAY contains only clay and inorganic calcite (20%), and occurs in Section 4, 10 to 60 cm. The CARBONATE-BEARING SILTY CLAY is characterized by a slightly higher inorganic calcite content (25%) and minor amounts (1%-2%) of quartz, mica, and accessory minerals, and occurs in Section 7, 20 to 40 cm.</p> <p>General Description: The dominant lithology is fairly homogenous, with intervals of light bioturbation and very gradual color changes. Minor lithologies are recognizable in the split core, occurring within the lighter layers of discrete 1- to 5-cm color bands. These bands have gradational contacts and are lightly to moderately bioturbated.</p> <p>Dropstones: Section 3, 65 cm, Ø 3.0, siltstone. Section 4, 50 cm, Ø 1.5. Section 5, 10 cm, Ø 3.0, carbonate. Section 5, 116 cm, Ø 1.0, shale. Section 6, 110 cm, Ø 2.0, pyritized shale. Section CC, 36 cm, Ø 2.0.</p>
2	Void	2		~		P	10Y 3/1	
3		3		~		P	10Y 3/1 To 10Y 5/1	
4		4		~		S		
5		4	Quaternary	~		S	10Y 4/1 To 10Y 5/2	
6		5		~		P		
7		5		~		P	10Y 4/1	
8		6		~		P		
9		7		~		S		
10	Void	7		~		S	5Y 3/1	
		CC		~		M	5Y 4/1	

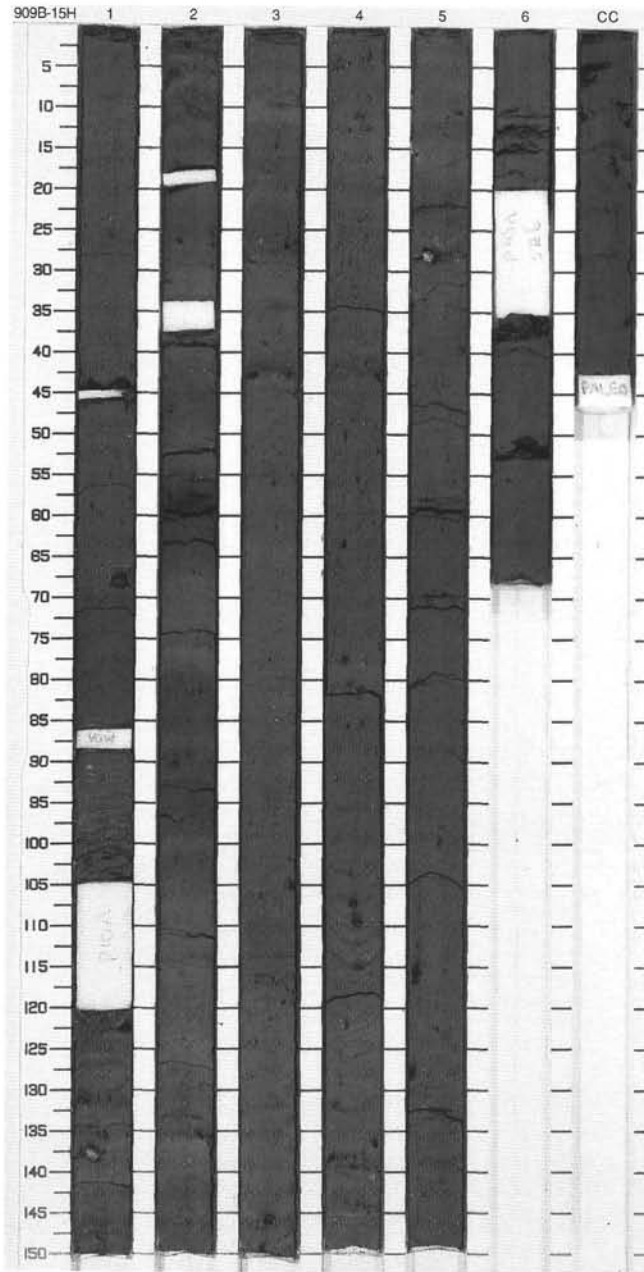


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Quaternary	◇		S P	5Y 3/1 To 5GY 4/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray to dark greenish gray (5Y 3/1, 5GY 4/1), homogeneous to color banded; color bands more apparent in Sections 3 to 5. Sandy pockets of black to very dark gray (5Y 2.5/1, 5Y 3/1) and dark olive gray (5Y 3/2) and mm-size pods of white quartz(?) are present throughout the core. Section 3, 11 cm, and 134 cm contains cm-sized pockets of gray (5Y 6/1) sandy sediment. Silt- and sand-sized grains are predominantly quartz (25%), feldspar and accessory minerals (5%-10%).</p> <p>General Description: Dropstones: Section 1, 47 cm, Ø 1.0 cm, shale/slate. Section 2, 83 cm, Ø 1.0 cm, shale. Section 4, 99 cm, Ø 4.0 cm, siltstone.</p>
2	[Hatched pattern]	2		◇		P		
3	[Hatched pattern with 'Void' label]	3				S P		
4	[Hatched pattern with 'Void' label]	4				P		
5	[Hatched pattern]	5		◇		P		
6	[Hatched pattern]	6				S P	5Y 3/1	
CC						M		



SITE 909 HOLE B CORE 15H CORED 119.7 - 127.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	Void	1	◆	—	W	S	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1) SILTY CLAY massive in most sections but exhibiting distinct black layers in Sections 2, 3, and 4. Mud clasts are common throughout.</p> <p>Minor Lithology: Very dark grayish brown (2.5 Y 3/2) CARBONATE CLAY occurs in Section 2, 100-132 cm, composed of well-sorted, clay-sized subspherical carbonate grains.</p> <p>General Description: Dropstones occur in: Section 1, 44 cm, Ø 2.0 cm, claystone; 85 cm, Ø 1.7 cm, quartz. Section 5, 26 cm, Ø 2.0 cm, quartz.</p>
2	Void	2	◆	◆		P		
3		3	◆	◆		S	2.5Y 3/2	
4		4	◆	◆		P		
5		5	◆	◆		S		
6		6	◆	◆		P	5Y 3/1	
7		7	◆	◆		P		
8	Void	8	◆	◆		S		
		CC				M		



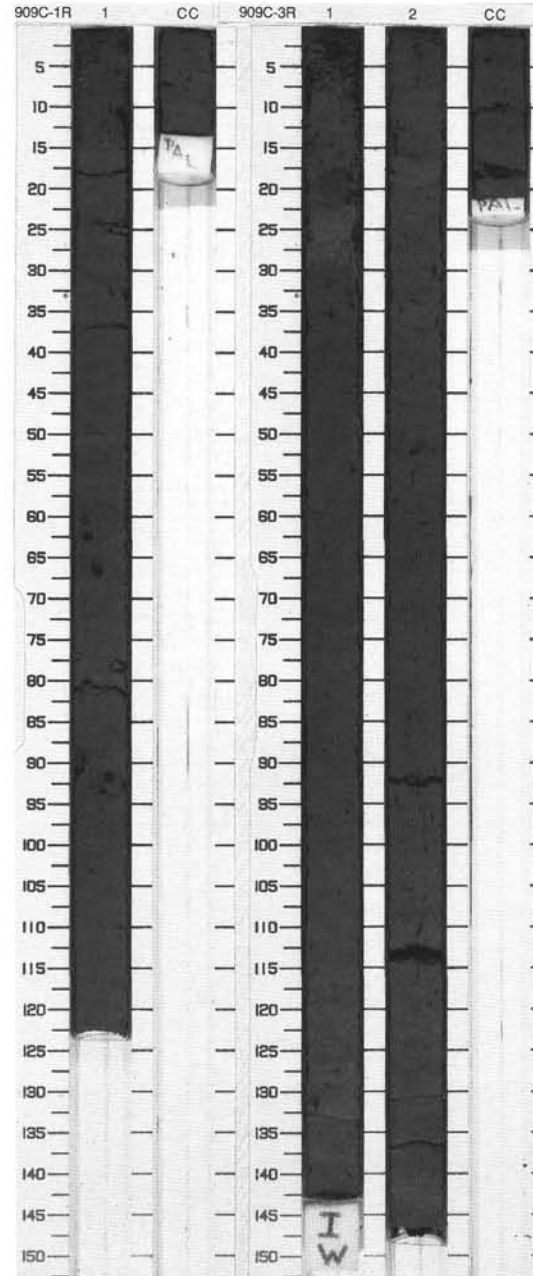
SITE 909 HOLE C CORE 1R CORED 85.0 - 94.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Quaternary	}}	X	P	5Y 2.5/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, structureless, with large diffuse Fe-sulfide patches giving a black color to the core (5Y 2.5/1). Slight bioturbation only marked by Fe-sulfide globules found within a few large burrows.</p> <p>Minor Lithology: Inorganic carbonate-bearing CLAY, very dark gray (5Y 3/1), occurs as a single thin bed with sharp top and bottom contacts, Section 1, 50-51 cm.</p> <p>General Description: Dropstone: Section 1, 80 cm, Ø 1 cm, rounded siltstone.</p>
1	[Hatched pattern]	1	Quaternary	}}		S P M		

909C 2R NO RECOVERY

SITE 909 HOLE C CORE 3R CORED 104.3 - 113.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Quaternary	---	X	P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, black (5Y 2.5/1) structureless and firm. Iron-sulfide patches more or less dispersed along the bedding. Scattered narrow and elongated pyrite-cemented burrows.</p>
1	[Hatched pattern]	1		}}		S P I		
2	[Hatched pattern]	2	}}			P	5Y 2.5/1	<p>Minor Lithology: CLAYEY MUD, very dark gray (5Y 3/1), structureless with coarse sand grains irregularly scattered, Section 1, 15-52 cm. Short gradational lower contact and upper part disturbed by coring.</p>
3	[Hatched pattern]	3	}}			P M		



SITE 909 HOLE C CORE 4R

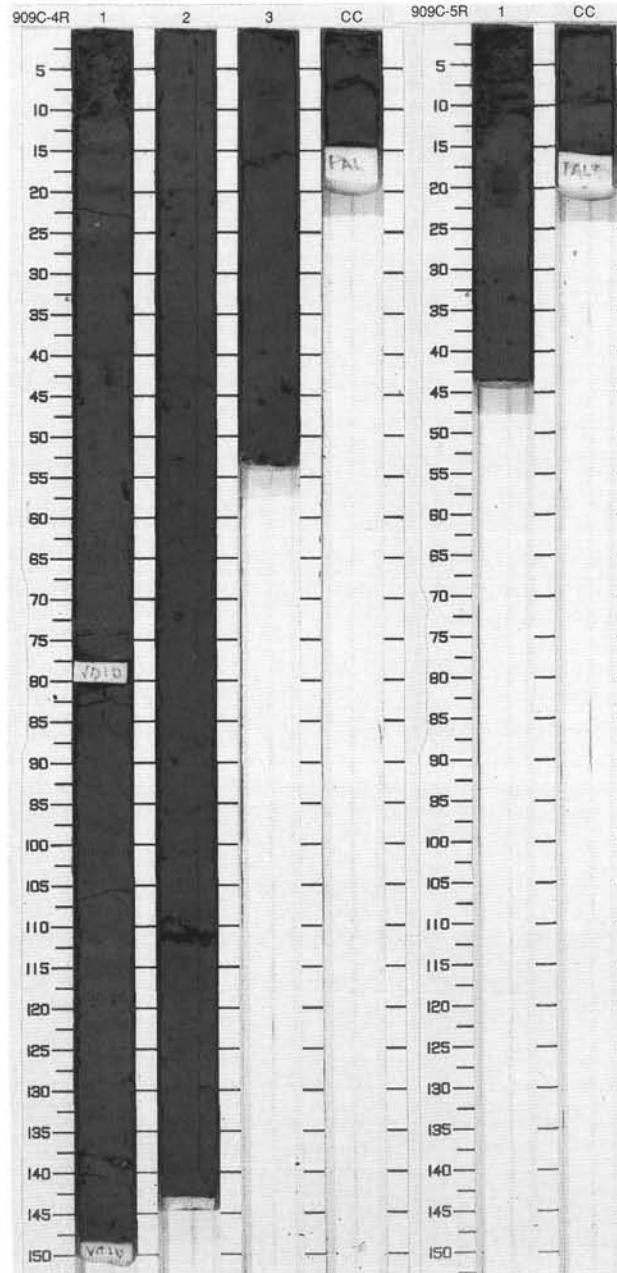
CORED 113.9 - 123.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Quaternary	[Symbol]		S P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), firm and homogeneous except for local color banding which has layers that are slightly browner or lighter gray. Black pods, Ø <1 cm, of Fe sulphide are present throughout; they are less abundant in Sections 2 and 3. Thin silty layers occur rarely in Sections 1 and 2. Distinct burrows are present in Section 1, 113 cm. Quartz and feldspar are the major silt- and sand-sized grains.</p> <p>General Description: Clay nodules (light gray): Section 1, 139 cm, Ø 1 cm. Dropstones: Section 1, 41 cm, Ø 2.6 cm, igneous? Section 2, 54 cm, Ø 2.8 cm, sandstone.</p>
2	[Symbol]	2						
3	[Symbol]	3						
		CC						

SITE 909 HOLE C CORE 5R

CORED 123.6 - 133.2 mbsf

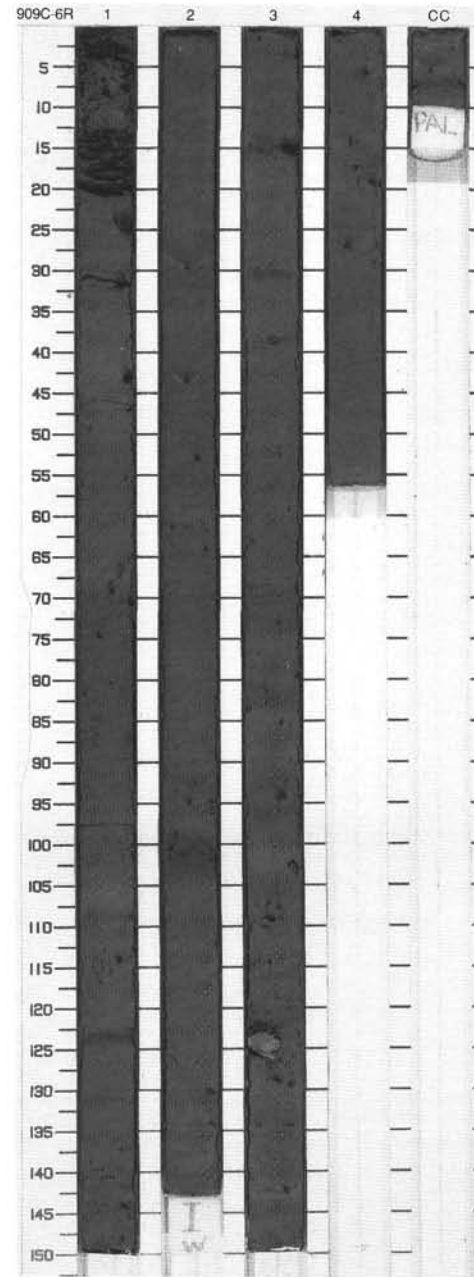
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	[Symbol]	1	Pli.	[Symbol]		S P M	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), homogeneous with scattered black pods of Fe sulphide. Quartz and feldspar are the major silt- and sand-sized grains; clay-sized inorganic calcite is a minor component.</p> <p>Minor Lithology: CLAYEY MUD, very dark gray (5Y 3/1), occurs in Section 1, 17-22 cm.</p>
		CC						



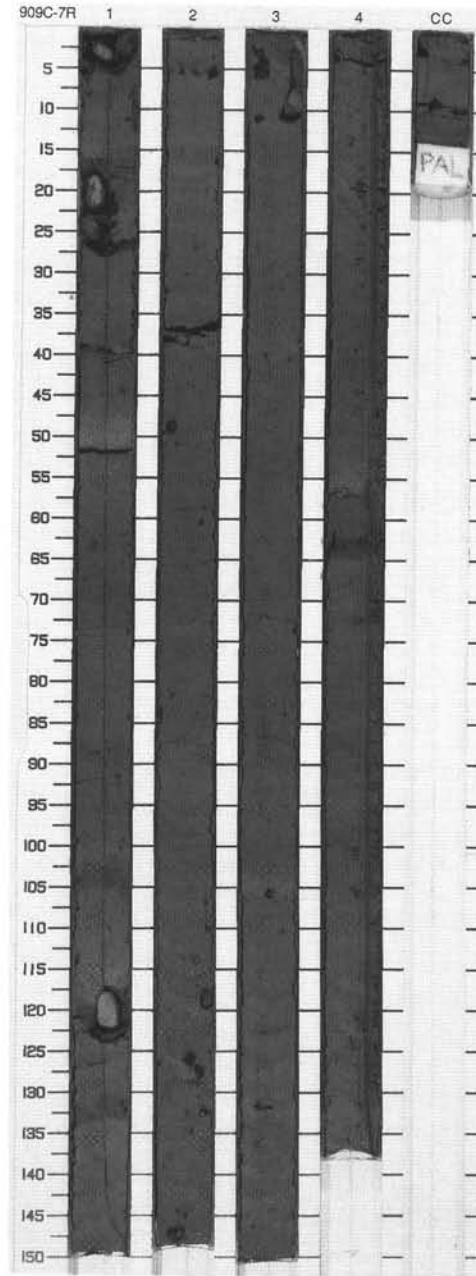
SITE 909 HOLE C CORE 6R

CORED 133.2 - 142.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Pliocene			P	5Y 3/1 To 5GY 4/1	<p>CLAYEY SILT and SILTY CLAY</p> <p>Major Lithologies: CLAYEY SILT interbedded with SILTY CLAY, very dark gray to dark greenish gray (5Y 3/1, 5GY 4/1), homogeneous but shows color banding in Sections 1 and 3. Black pods, $\varnothing < 1$ cm, of Fe sulphide are scattered throughout the core. Gray to dark gray (5Y 5/1, 5Y 4/1) sandy pods are rare.</p> <p>Minor Lithology: CARBONATE-BEARING CLAY, dark gray (5Y 4/1), in Section 1, 103-108 cm and Section 3, 100-103 cm. Inorganic calcite comprises 20% of the sediment.</p> <p>General Description: Dropstone: Section 3, 123 cm, \varnothing 4 cm, partially silicified dolostone.</p>
2		2		S	P			
3		3		P	I	5Y 3/1		
4		4		S	P			
5		CC				P		M

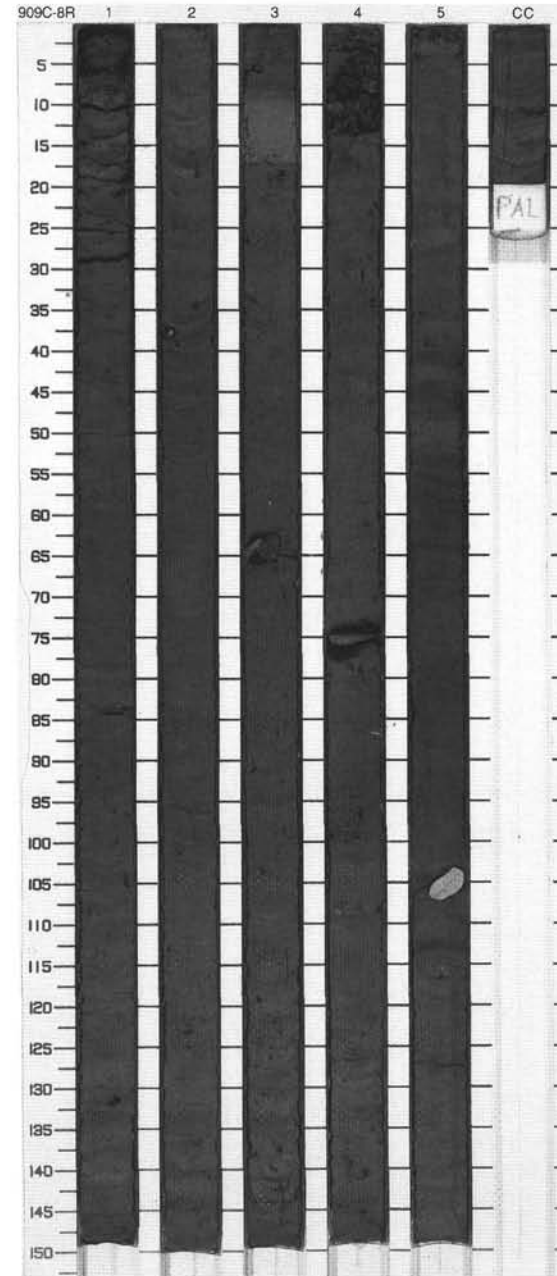


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Graphic Lithology: Dotted pattern]	1	Pliocene	[Structure: Diamond symbols]	[Disturb: None]	P	5Y 3/1	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: Very dark gray (5Y 3/1) SILTY CLAY and CLAYEY SILT occur throughout the core, predominantly massive with common disseminated iron-sulfide concretions. Faint color banding from very dark gray to dark greenish gray (5Y 3/1 to 5GY 4/1) occurs in Section 1, 51 to 150 cm, and in Section 4, 66 to 138 cm. Each package has a CARBONATE CLAY layer near the top, bounded by a sharp contact.</p> <p>Minor Lithologies: Olive gray (5Y 5/2) CARBONATE CLAY in Section 1, 47-51 cm; Section 3, 104-105; and Section 4, 54-57 cm. Carbonate concretion with calcite rind, Section 3, 9 cm, Ø 3.1 cm.</p> <p>General Description: Dropstones: Section 1, 2 cm, Ø 3.8 cm, rounded black siltstone; 20 cm, Ø 4.1 cm, subrounded black siltstone; 121 cm, Ø 4.3 cm, cross-laminated black siltstone. Section 2, 147 cm, Ø 1.1 cm, angular black siltstone. Section 4, 57 cm, Ø 1.5 cm, fractured carbonate mudstone.</p>
2						S	5Y 3/1 To 5GY 4/1	
3						P	5Y 3/1	
4						P	5Y 3/1	
5						P	5Y 3/1 To 5GY 4/1	
6						M	5Y 3/1 To 5GY 4/1	

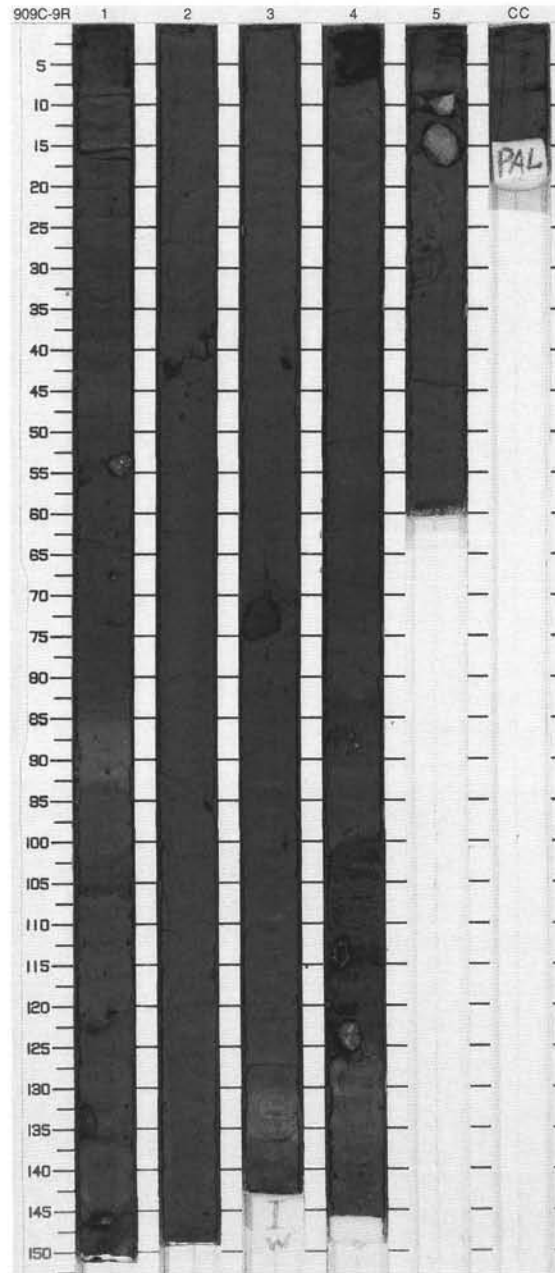


SITE 909 HOLE C CORE 8R CORED 152.6 - 162.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		}}	X	P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), very homogeneous. Slight bioturbation alternatively marked by white pods (quartz) and sandy pockets, Fe-sulfide cemented burrows, and pervasive indistinct black patches. Section 5 shows very faint color banding.</p> <p>Minor Lithologies: CLAYEY MUD, Section 5, 35-46 and 113-114 cm; CC, 1-2 cm, differs from silty clay only by a slight increase in sand-sized grains. The thicker bed has very indistinct bottom and top contacts, while the two thinner beds show sharper basal contact. CARBONATE CLAY, Section 3, 9-18 cm, is distinguished by a lighter color (dark gray, 5Y 4/1). The lower change in color is very sharp and the upper is gradational, but there are no obvious changes in texture or stiffness. Bioturbation is more apparent than in the silty clay. This layer contains up to 78% clay-sized carbonate grains.</p> <p>General Description: Dropstones: Section 3, 63 cm, Ø 3.5 cm, flat semi-angular siltstone. Section 4, 74 cm, Ø 6.0 cm, flat sandstone, dark. Section 5, 107, Ø 5.0 cm, rounded sandstone.</p>
2	[Hatched pattern]	2		}}		P	5Y 3/1	
3	[Hatched pattern]	3		}}		S		
4	[Hatched pattern]	3	Pliocene	}}		P		
5	[Hatched pattern]	4		}}		P		
6	[Hatched pattern]	4		}}		P	5Y 3/1	
7	[Hatched pattern]	5		}}		P		
	[Hatched pattern]	5		}}		S		
	[Hatched pattern]	5		}}		P		
	[Hatched pattern]	CC		}}		M		

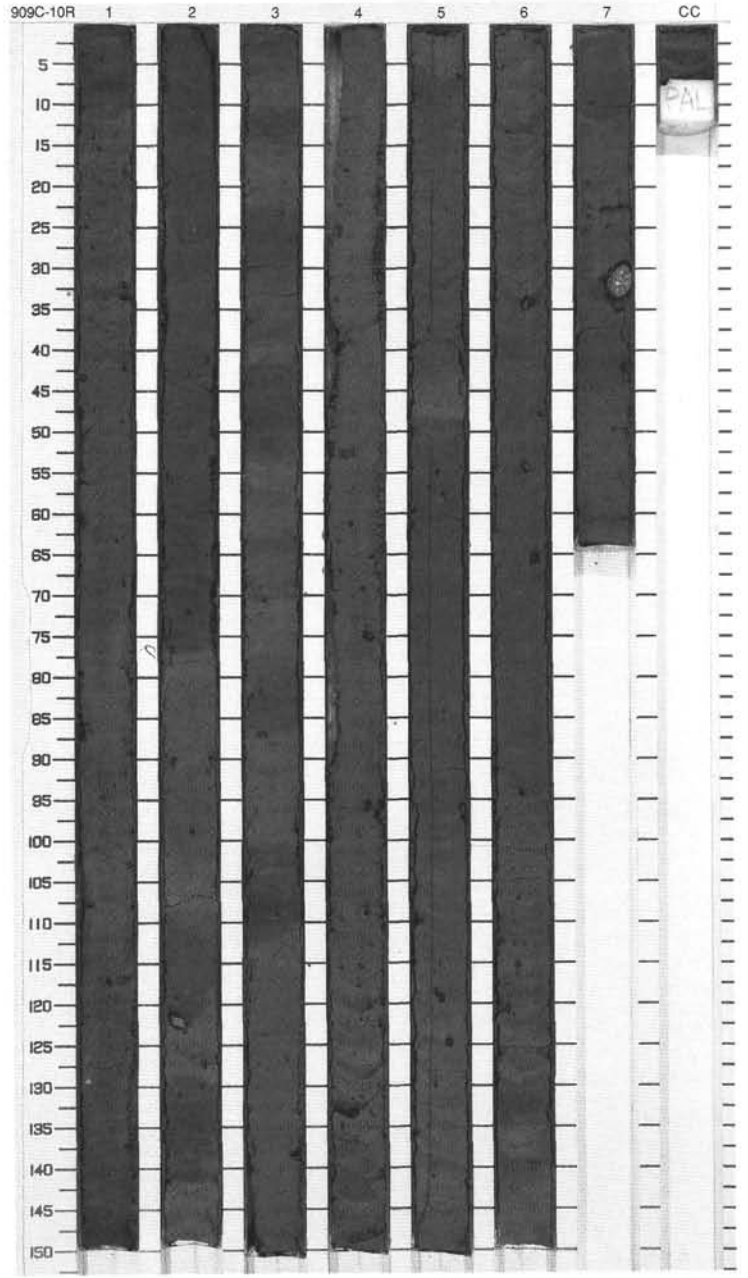


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Pliocene	[Symbol]		P	5Y 3/1	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: Massive very dark gray (5Y 3/1) SILTY CLAY and CLAYEY SILT occur throughout core, exhibiting faint color banding in Section 1, 20-106 cm. Sediment becomes more firm in Section 5.</p> <p>Minor Lithologies: CARBONATE-BEARING CLAY, slightly reddish very dark gray (5Y 3/1), in Section 1, 74-81 cm, dark gray (5Y 4/1) in Section 1, 85-93 cm and Section 3, 135-140 cm. CLAYEY MUD, very dark gray (5Y 3/1) occurs in Section 4, 81-90 cm, accompanied by large mud clasts, Ø 2 and 4 cm, and from 100-126 cm, accompanied by dropstones. Sediment is soupy due to gas disturbance.</p> <p>General Description: Dropstones: Section 1, 54 cm, Ø 2.5 cm, gabbro (?); 67 cm, Ø 1.3 cm, subrounded black siltstone. Section 3, 72 cm, Ø 5.8 cm, iron-rich sandstone. Section 4, 114 cm, Ø 3.4 cm, coal (?); 124 cm, Ø 3.6 cm, rounded sandstone. Section 5, 9 cm, Ø 3.3 cm, gray siltstone (quartzite); 14 cm, Ø 5.2 cm, gray sandstone (quartzite).</p>
2	[Symbol]	2		[Symbol]		S		
3	[Symbol]	3		[Symbol]		P		
4	[Symbol]	4		[Symbol]		P		
5	[Symbol]	5		[Symbol]		P		
6	[Symbol]	6		[Symbol]		S I		
	[Symbol]			[Symbol]		P		
	[Symbol]			[Symbol]		P		
	[Symbol]			[Symbol]		P		
	[Symbol]			[Symbol]		M		



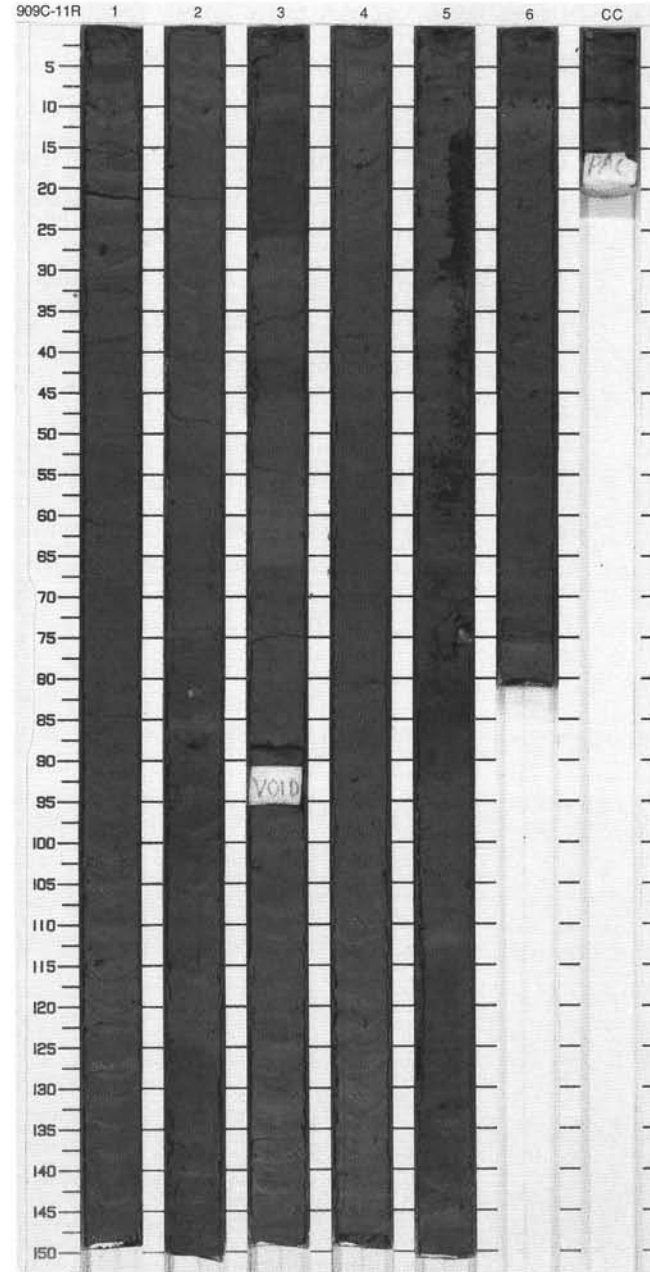
SITE 909 HOLE C CORE 10R CORED 171.9 - 181.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1						P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, dark gray (5Y 4/1; N/4), very dark gray (5Y 3/1; N/3), with a minor amount of dark greenish gray (5GY 4/1). Black, Fe-sulfide burrows, pods and layers are common in SILTY CLAY, but not in the minor lithologies. Grayish brown (2.5Y 5/2), silt-filled burrows are also present.</p> <p>Minor Lithologies: CARBONATE-BEARING CLAYEY MUD, dark olive gray (5Y 4.5/2), dark gray (2.5 Y 4/1, 10YR 4/1), in Section 3, 56-59 and 113-116 cm, with sharp base and gradational top. The top is gradational into CLAYEY MUD. Also present in smaller, less well defined, and probably more bioturbated intervals in Section 1, 30-33 cm; Section 3, 33-35 cm; Section 5, 44-48 cm. CLAYEY MUD, very dark gray (5Y 3/1) in Section 1, 0-30 cm; Section 1, 127 cm to Section 2, 77 cm; Section 2, 108-121 and 129-141 cm; Section 3, 10-14, 42-56, and 100-113 cm; Section 6, 129-130 cm; Section 7, 10-11 and 31-34 cm. In the thicker layers many grain-size variations are present, but not regular enough to be described as real beds.</p> <p>General Description: Dropstones: Section 2, 121 cm, Ø 2.2 cm, sandstone. Section 5, 96 cm, Ø 1.5 cm, siltstone. Section 6, 34 cm, Ø 1.2 cm, siltstone. Section 7, 31 cm, Ø 3.5 cm, metamorphic?.</p>
2						P	5Y 3/1	
3						S		
4						S		
5						P	N3 To N4	
6						S		
7						P	5Y 4/1	
8						S		
9						P		
10						P	5Y 3/1	
11						P		
12						P		
13						P		
14						P		
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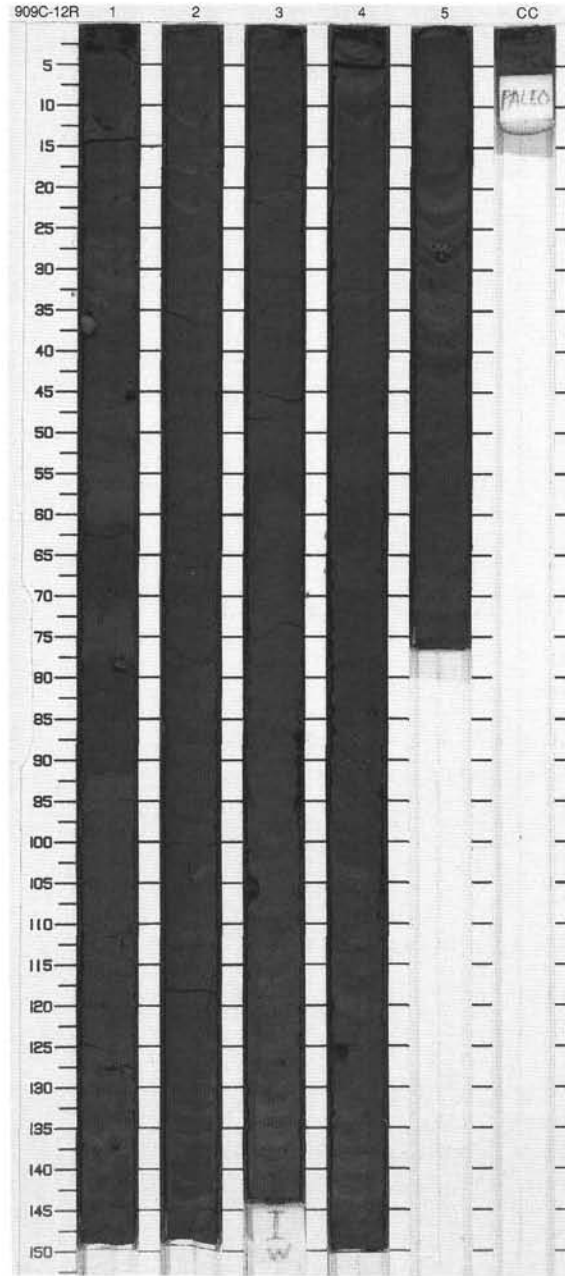
SITE 909 HOLE C CORE 11R CORED 181.6 - 191.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				P	2.5Y 3/2	SILTY CLAY
2		2				S	5Y 3/1	Major Lithology: Dark gray (5Y 4/1) to very dark gray (5Y 3/1) SILTY CLAY. Subtle color variations occur, but the lithology is relatively invariant in both texture and composition. Quartz (~20%), feldspar (~6%), and inorganic calcite (4%–8%) are the important non-clay minerals.
3		3			P	5Y 4/1 To 5Y 3/1		
4	Void	3				S	5Y 4/1	Minor Lithologies: Very dark grayish brown (2.5Y 3/2) CARBONATE-BEARING CLAYEY MUD occurs in ~10% of the core. Sand- and silt-sized quartz (30%) and feldspar (25%) are predominant. The surface texture is correspondingly rough. Dark gray (5Y 4/1) CARBONATE CLAY occurs in Section 3, 59–66 cm, as the lightest layer in a series of medium color bands with mostly gradational contacts.
5		4			P	5Y 3/1		
6		4			S			General Description: Core consists of interbedded layers of SILTY CLAY and CARBONATE-BEARING CLAYEY MUD. Bioturbation is evident throughout. Disseminated and nodular Fe sulfides are common. Pyrite concretions occur in Section 4, 17 and 92 cm.
7		5			S			
8		5			P	5Y 2.5/2	Dropstones: Section 2, 83 cm, Ø 1.1 cm, metamorphic. Section 5, 74 cm, Ø 2.5 cm, siltstone.	
		5			P	5Y 3/1		
		6			P	10Y 3/1		
		CC				M	5Y 3/1	

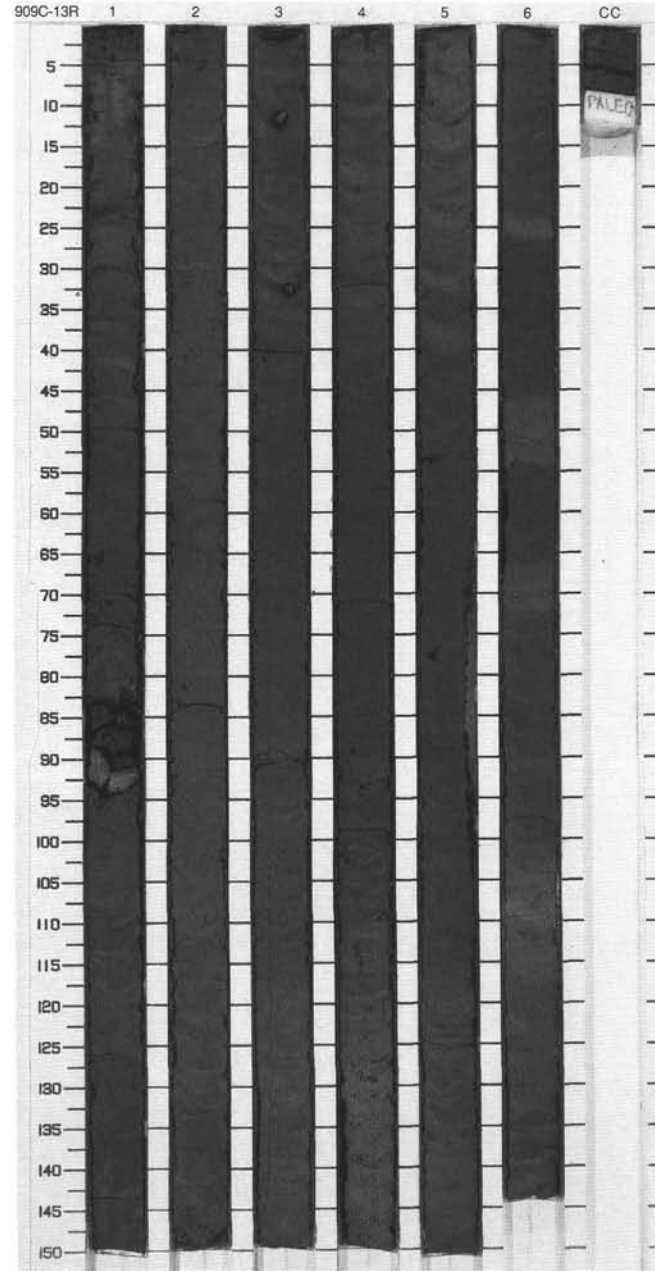


SITE 909 HOLE C CORE 12R CORED 191.2 - 200.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1		[Symbol]		S P		SILTY CLAY Major Lithology: SILTY CLAY, very dark gray (5Y 3/1) and dark gray (5Y 4/1), slightly to moderately bioturbated. White silty burrow fills are abundant. Contacts with coarser layer are gradational (1.0 cm thick) .
2	[Pattern]	2		[Symbol]		P	5Y 3/1 To 5Y 4/1	
3	[Pattern]	3	Pliocene	[Symbol]		P		Minor Lithology: SILTY MUD and CARBONATE-BEARING SILTY CLAY, very dark gray (5Y 3/1) and dark gray (5Y 4/1), slightly bioturbated. CARBONATE-BEARING SILTY CLAY contains abundant inorganic calcite in Section 1, 0-50 cm.
4	[Pattern]	4		[Symbol]		S		
5	[Pattern]	5		[Symbol]		P	5Y 3/1	General Description: Dropstones: Section 1, 36 cm, Ø 2.5 cm, sandstone; 45 cm, Ø 1.5 cm, sandstone, Section 5, 28 cm, Ø 1.0 cm, siltstone.
6	[Pattern]	6		[Symbol]		P		
	[Pattern]			[Symbol]		P	5Y 3/1 To 2.5Y 3/2	
	[Pattern]			[Symbol]		M		

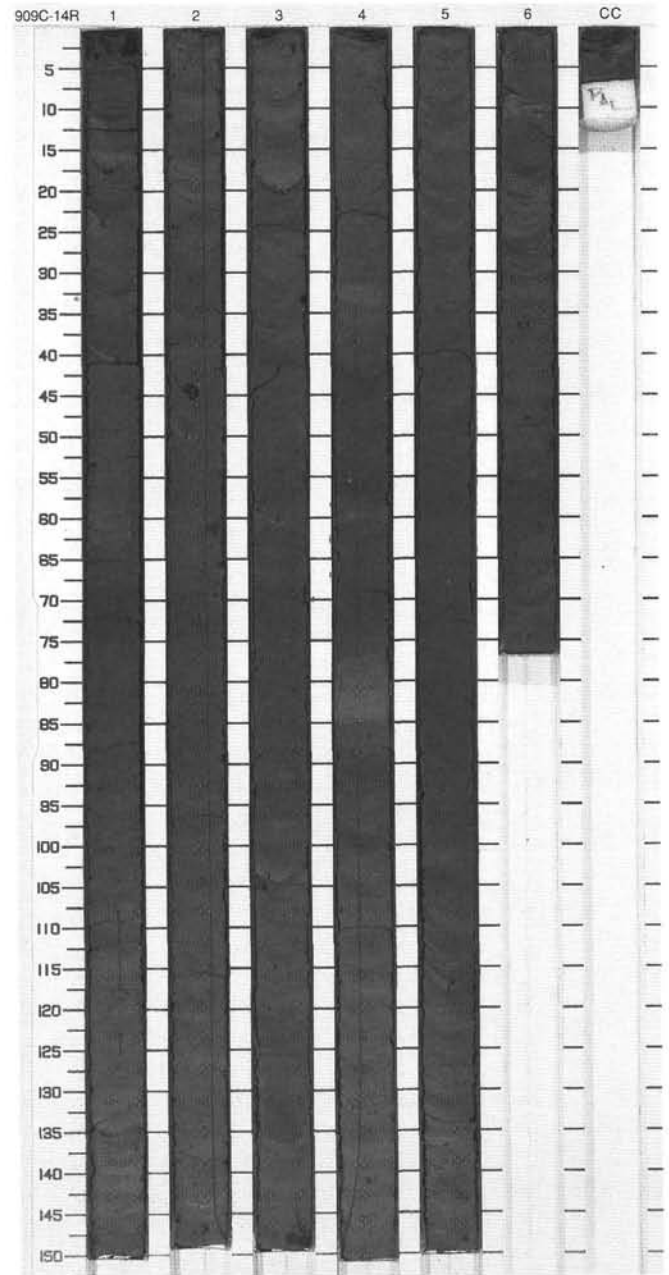


Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	---	W	S	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), homogeneous, slightly bioturbated, with disseminated Fe sulfide in Sections 4, 5, and 6. Minor inorganic calcite occurs in Section 6, 20-80 cm.</p> <p>Minor Lithology: SILTY MUD, very dark gray (5Y 3/1), occurs in Section 1, 30-60 cm. Top and bottom contacts are gradational.</p> <p>General Description: Dropstones: Section 1, 90 cm, Ø 6.0 cm, altered volcanic rock. Section 3, 11 cm, Ø 2.5 cm, shale. Section 3, 32 cm, Ø 1.0 cm, sandstone.</p>
2	[Pattern]	2	~		P		
3	[Pattern]	3	◇		P		
4	[Pattern]	4	~		P		
5	[Pattern]	5	~		P		
6	[Pattern]	6	~		P		
7	[Pattern]	5	~		P	5Y 3/1 To 5Y 3/2	
8	[Pattern]	6			S		
9	[Pattern]	6			S		
					P		
					M		



SITE 909 HOLE C CORE 14R CORED 210.5 - 220.1 mbsf

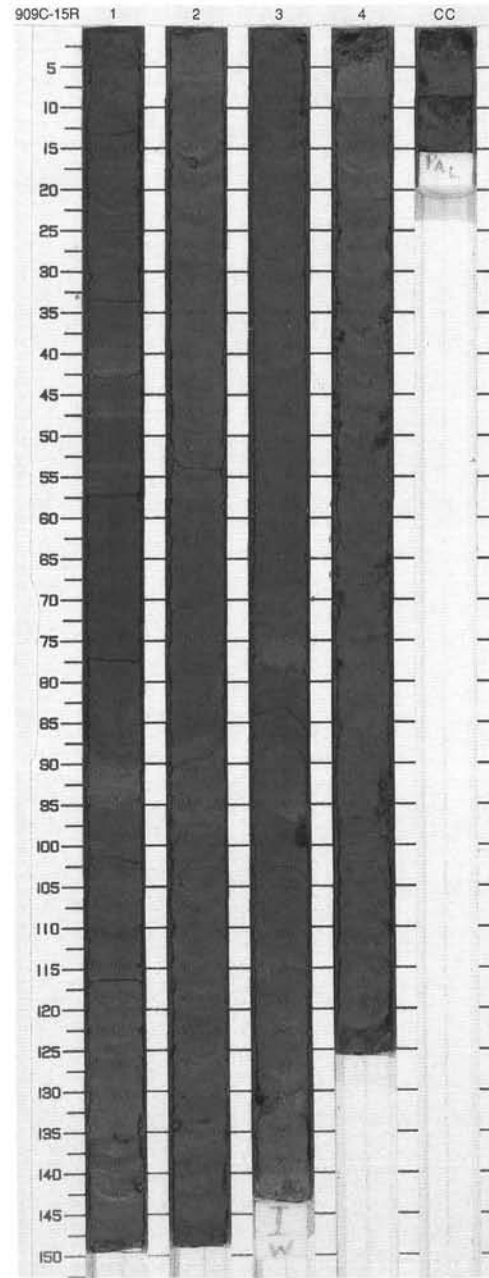
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		5 } 5 }	w	P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, very dark gray (5Y 3/1), slightly bioturbated. White silt burrow fills are abundant; disseminated sulfides are common.</p>
2	[Hatched pattern]	2		5 } 5 }		S P		
3	[Hatched pattern]	3		5 } 5 }		P		<p>Minor Lithology: CARBONATE-BEARING SILTY CLAY, olive gray (5Y 4/2), containing inorganic calcite up to 30% in Section 4, 80-85 cm.</p>
4	[Hatched pattern]	4	Pliocene	5 } 5 }		P	5Y 3/1	
5	[Hatched pattern]	5		5 } 5 }		P		
6	[Hatched pattern]	6		5 } 5 }		S P		
7	[Hatched pattern]	7		5 } 5 }		P		
8	[Hatched pattern]	8		5 } 5 }		S P		
		CC				M		



SITE 909 HOLE C CORE 15R

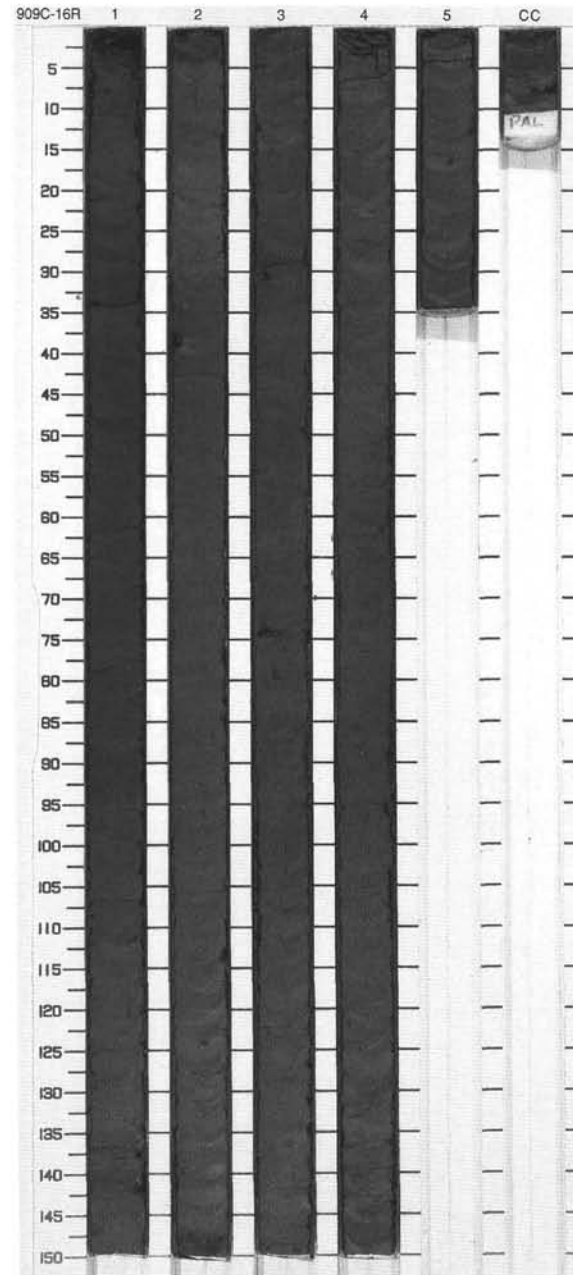
CORED 220.1 - 229.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Pliocene	[Wavy lines]	---	P	5Y 3/1 To 2.5Y 5/2	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), very dark olive gray (10Y 3/1), and dark gray (5Y 4/1); slightly bioturbated.</p> <p>Minor Lithologies: CARBONATE-BEARING CLAY AND CARBONATE CLAY, grayish brown (2.5Y 5/2), Section 1, 91-96 cm, Section 3, 75-79 cm.</p> <p>General Description: Dropstones: Section 1, 141 cm, Ø 1.8 cm, coated mudstone. Section 2, 17 cm, Ø 1.0 cm, sandstone; 134 cm, Ø 1.5 cm, siltstone.</p>
2	[Hatched pattern]	2		S P	[Wavy lines]	P	5Y 3/1 To 5Y 4/1	
3	[Hatched pattern]	3		S P	[Wavy lines]	P		
4	[Hatched pattern]	4		S P	[Wavy lines]	P	5Y 3/1 To 10Y 3/1	
5	[Hatched pattern]	4		P	[Wavy lines]	P		
		CC				M		



SITE 909 HOLE C CORE 16R CORED 229.6 - 239.2 mbsf

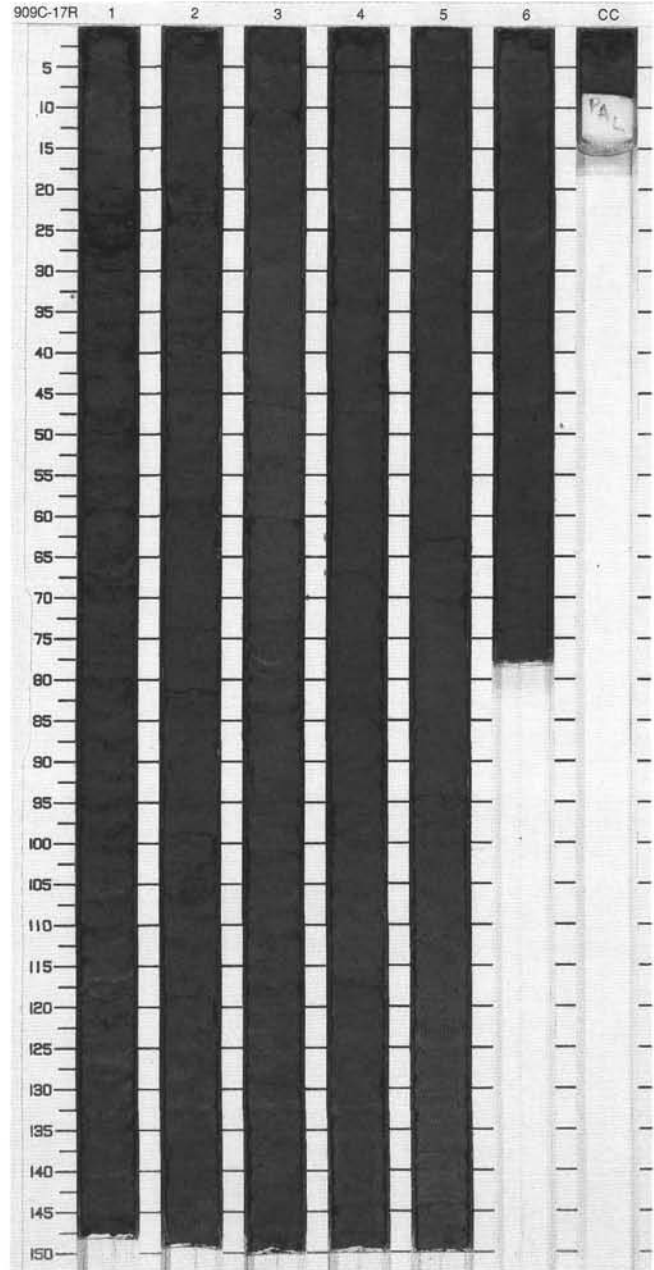
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]			[Wavy lines]	W	S	5Y 3/1 To 10Y 3/2	<p>SILTY CLAY, CLAYEY SILT</p> <p>Major Lithology: SILTY CLAY and CLAYEY SILT, very dark gray (5Y 3/1) and very dark olive gray (10Y 3/1), slightly bioturbated. White silt burrow fills are abundant.</p> <p>Minor Lithologies: CARBONATE BEARING CLAY, dark gray (5Y 4/1), slightly bioturbated, gradational contacts.</p> <p>General Description: Dropstone: Section 3, 73 cm, Ø 1.5 cm, coal fragment.</p>
2	[Hatched pattern]			[Wavy lines]		S P	5Y 3/1 To 5Y 4/1	
3	[Hatched pattern]	Pliocene		[Wavy lines]		P		
4	[Hatched pattern]			[Wavy lines]		S P		
5	[Hatched pattern]			[Wavy lines]		P	5Y 3/1	
6	[Hatched pattern]			[Wavy lines]		P		
7	[Hatched pattern]			[Wavy lines]		P		
8	[Hatched pattern]			[Wavy lines]		P		



SITE 909 HOLE C CORE 17R

CORED 239.2 - 248.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Pliocene	- - -		S 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), very homogeneous except for local color bands with bluish green tint. Gray silt burrows, mm size, are rare throughout. Quartz and feldspar are the main silt- and sand-sized grains.</p> <p>Minor Lithology: SILTY MUD, very dark gray (5Y 3/1), in Section 4, 116-131 cm exhibits color banding.</p>
2	[Hatched pattern]	2				P		
3	[Hatched pattern]	3				P		
4	[Hatched pattern]	4				S		
5	[Hatched pattern]	5				P		
6	[Hatched pattern]	6				P		
7	[Hatched pattern]	7				S		
8	[Hatched pattern]	8				S		
		9			P			
		10			P			
		11			P			
		12			P			
		13			P			
		14			P			
		15			P			
		16			P			
		17			P			
		18			P			
		19			P			
		20			P			
		21			P			
		22			P			
		23			P			
		24			P			
		25			P			
		26			P			
		27			P			
		28			P			
		29			P			
		30			P			
		31			P			
		32			P			
		33			P			
		34			P			
		35			P			
		36			P			
		37			P			
		38			P			
		39			P			
		40			P			
		41			P			
		42			P			
		43			P			
		44			P			
		45			P			
		46			P			
		47			P			
		48			P			
		49			P			
		50			P			
		51			P			
		52			P			
		53			P			
		54			P			
		55			P			
		56			P			
		57			P			
		58			P			
		59			P			
		60			P			
		61			P			
		62			P			
		63			P			
		64			P			
		65			P			
		66			P			
		67			P			
		68			P			
		69			P			
		70			P			
		71			P			
		72			P			
		73			P			
		74			P			
		75			P			
		76			P			
		77			P			
		78			P			
		79			P			
		80			P			
		81			P			
		82			P			
		83			P			
		84			P			
		85			P			
		86			P			
		87			P			
		88			P			
		89			P			
		90			P			
		91			P			
		92			P			
		93			P			
		94			P			
		95			P			
		96			P			
		97			P			
		98			P			
		99			P			
		100			P			
		101			P			
		102			P			
		103			P			
		104			P			
		105			P			
		106			P			
		107			P			
		108			P			
		109			P			
		110			P			
		111			P			
		112			P			
		113			P			
		114			P			
		115			P			
		116			P			
		117			P			
		118			P			
		119			P			
		120			P			
		121			P			
		122			P			
		123			P			
		124			P			
		125			P			
		126			P			
		127			P			
		128			P			
		129			P			
		130			P			
		131			P			
		132			P			
		133			P			
		134			P			
		135			P			
		136			P			
		137			P			
		138			P			
		139			P			
		140			P			
		141			P			
		142			P			
		143			P			
		144			P			
		145			P			
		146			P			
		147			P			
		148			P			
		149			P			
		150			P			
		CC				M		



SITE 909 HOLE C CORE 18R CORED 248.8 - 258.5 mbsf

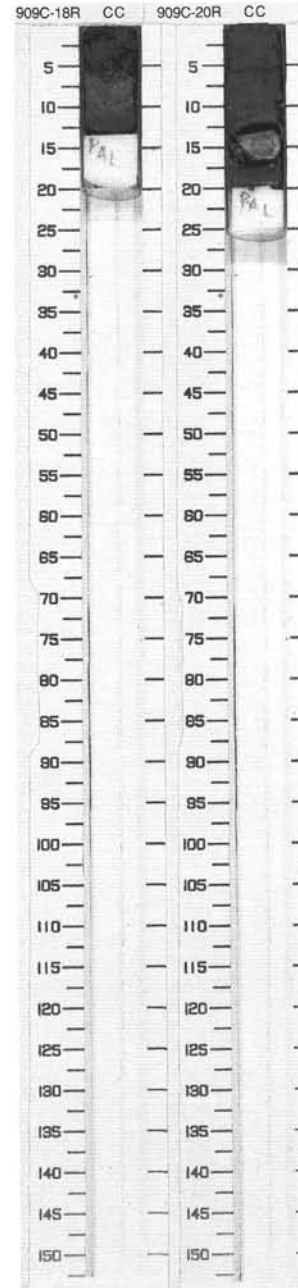
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC	Plio.			S M		CLAYEY SILT
Major Lithology: CLAYEY SILT, very dark gray (5Y 3/1), stiff, homogeneous.								

909C 19R NO RECOVERY

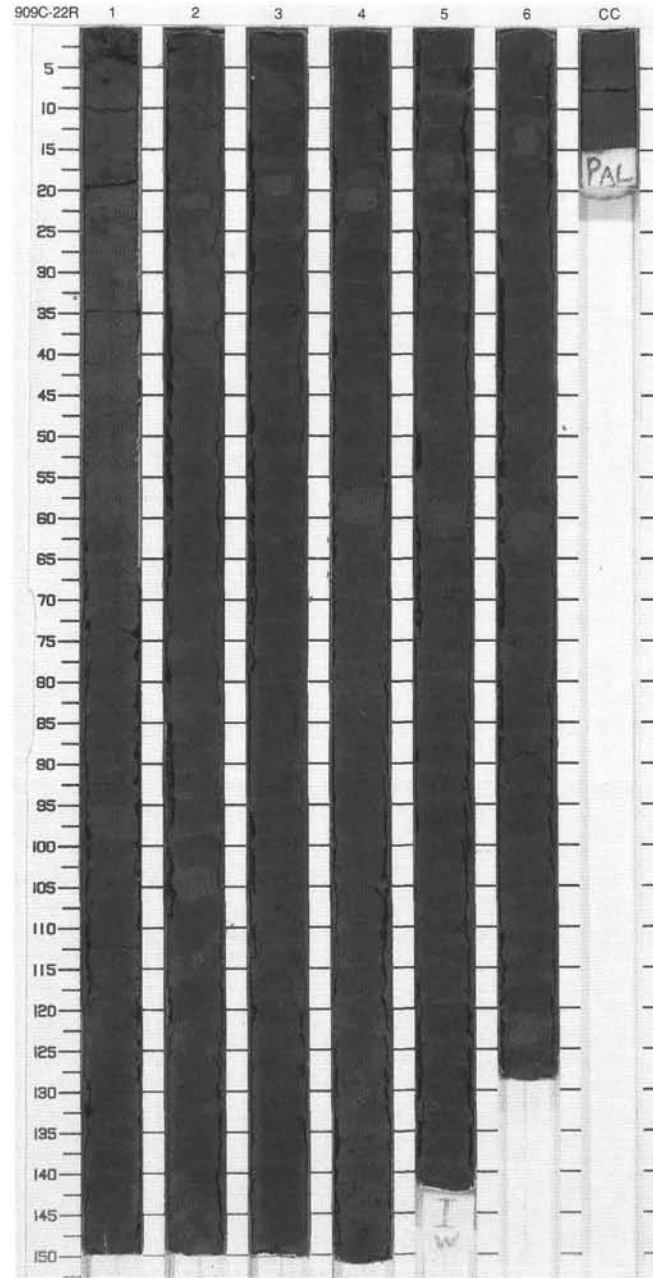
SITE 909 HOLE C CORE 20R CORED 268.1 - 277.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC	Plio.			S M		SILTY CLAY and CARBONATE CLAY
Major Lithologies: The core consists of an almost lithified, gray (5Y 5/1) and structureless fine-grained CARBONATE CLAY overlain by a homogeneous SILTY CLAY, very dark gray (5Y 3/1). The contact (Section CC, 14 cm) is abrupt.								

909C 21R NO RECOVERY

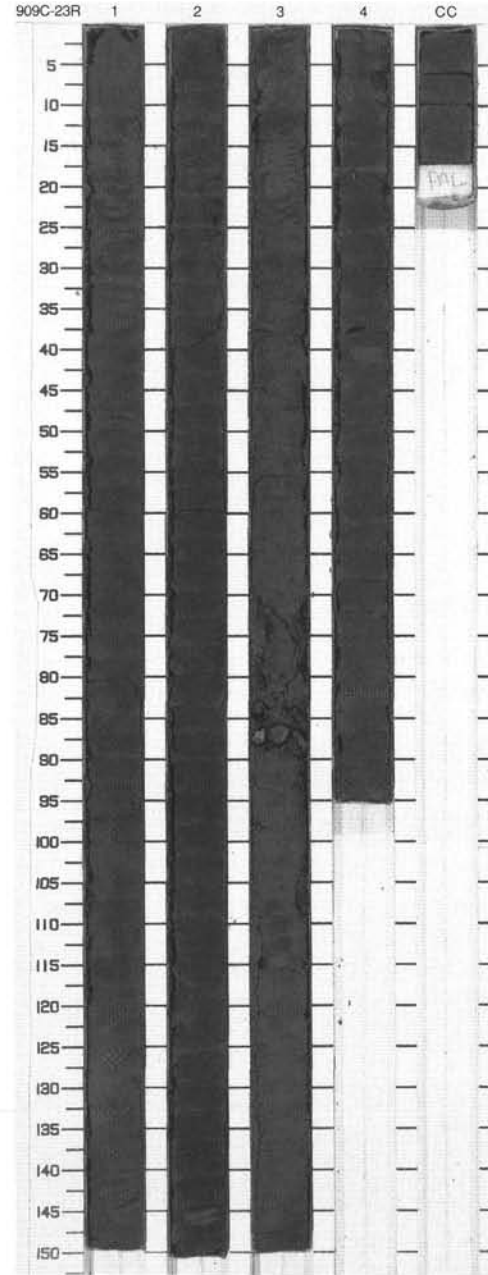


Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	}	X	S P		<p>SILTY CLAY, SILTY MUD and CLAYEY MUD</p> <p>Major Lithologies: SILTY CLAY, SILTY MUD, and CLAYEY MUD, very dark gray (5Y 3/1), are fairly homogeneous in spite of variations in the sand content (5%–40%). Evidence for bioturbation includes scattered small pits in the washed surface of split core, a few cemented burrows in relief, and <i>Planolites</i> and <i>Zoophycos</i> which are marked by faint changes in color. Contacts between lithologies are gradational.</p>
2	[Hatched pattern]	2	}		P		
3	[Hatched pattern]	3	}		P		
4	[Hatched pattern]	4	}}		P		
5	[Hatched pattern]	5	}}		P	5Y 3/1	
6	[Hatched pattern]	6	}}		P		
7	[Hatched pattern]	7	}}		S P		
8	[Hatched pattern]	8	}}		P		
	[Hatched pattern]		}}		P		
	[Hatched pattern]		}}		P		
	[Hatched pattern]		}		M		

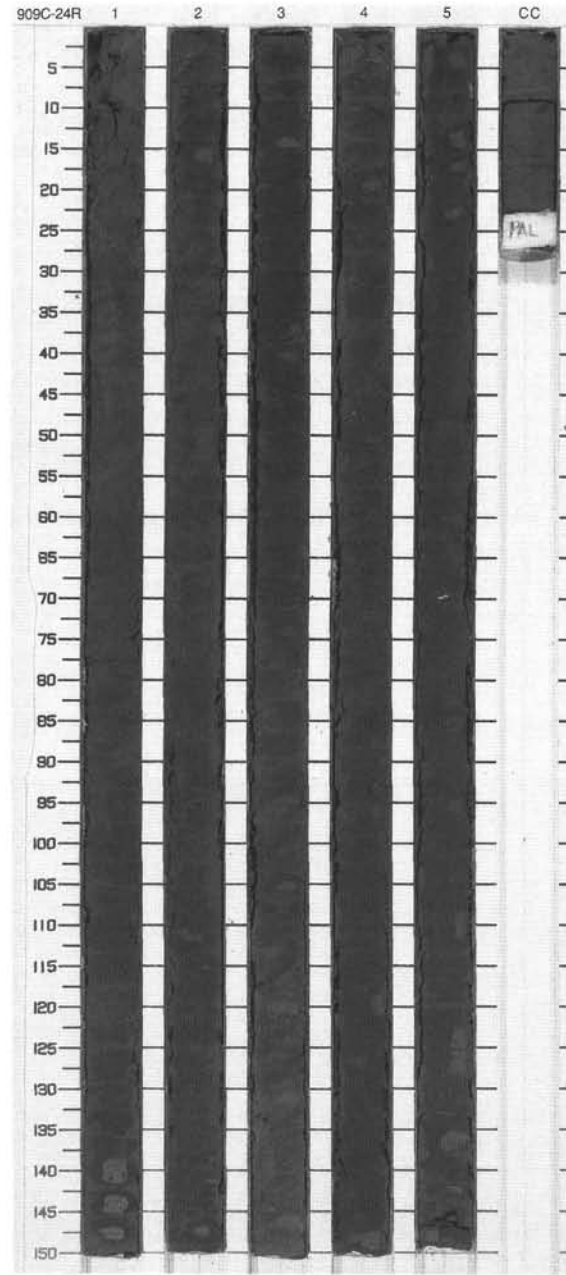


SITE 909 HOLE C CORE 23R CORED 297.1 - 306.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Pliocene	(P)		P	5Y 3/1	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: Homogeneous, very dark gray (5Y 3/1) SILTY CLAY and CLAYEY SILT, with common burrows filled with fine-grained pyrite. Washed surface of split core has mm-sized pits that may be remnants of burrows.</p> <p>Minor Lithology: Very dark gray (5Y 3/1) CARBONATE CLAYEY SILT occurs in Section 3, 80-90 cm, with large clasts of carbonate, perhaps a concretion.</p> <p>General Description: Incipient drilling biscuits throughout core.</p>
2	[Hatched pattern]	2		(P)		P		
3	[Hatched pattern]	3		(P)		P		
4	[Hatched pattern]	3		(C) (C) (C)		S		
4	[Hatched pattern]	3		(P)		P		
5	[Hatched pattern]	4		(P)		S P		
5	[Hatched pattern]	4		(P)		S P		
5	[Hatched pattern]	4		(P)		S P		
5	[Hatched pattern]	4		(P)		S P		
5	[Hatched pattern]	4		(P)		S P		
5	[Hatched pattern]	CC			M			

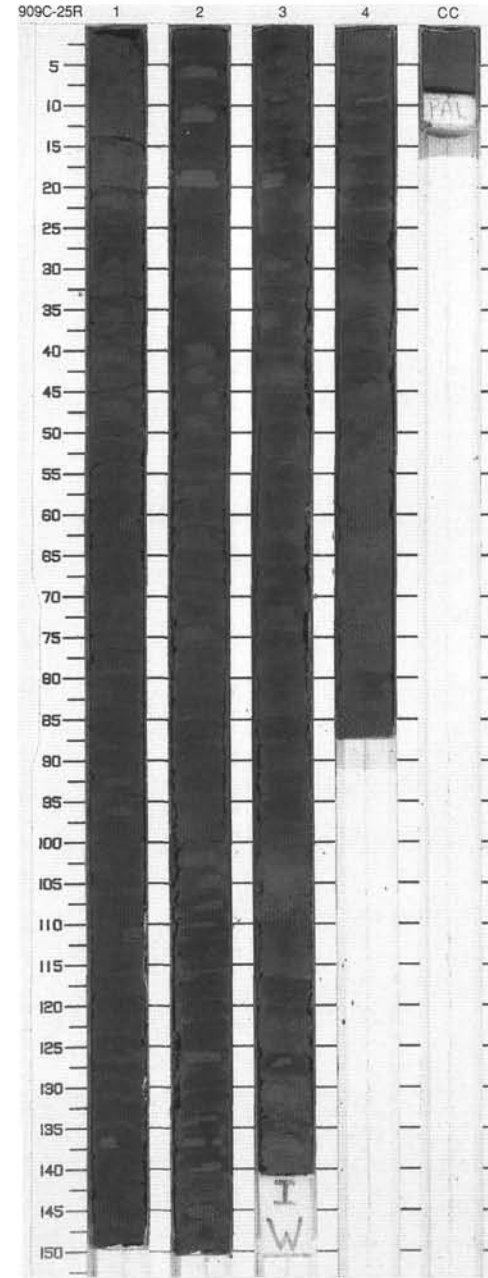


Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	}	X	P	5Y 3/1	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: Very homogeneous, very dark gray (5Y 3/1) SILTY CLAY and CLAYEY SILT. Changes in texture are very gradational. Bioturbation, predominantly slight, increases in Sections 3 and 4 where small pyrite-cemented burrows occur. A 1.5-cm-large shell was found in Section 5, 70 cm.</p> <p>General Description: Dropstone: Section 5, 146 cm, Ø 1.8 cm, flat and angular black siltstone.</p>
2	[Hatched pattern]	2	}	S	P		
3	[Hatched pattern]	3	}	S	P		
4	[Hatched pattern]	3	}}		P		
5	[Hatched pattern]	4	}}	S	P		
6	[Hatched pattern]	4	}}	S	P		
7	[Hatched pattern]	5	o }		P		
		CC	◇		M		

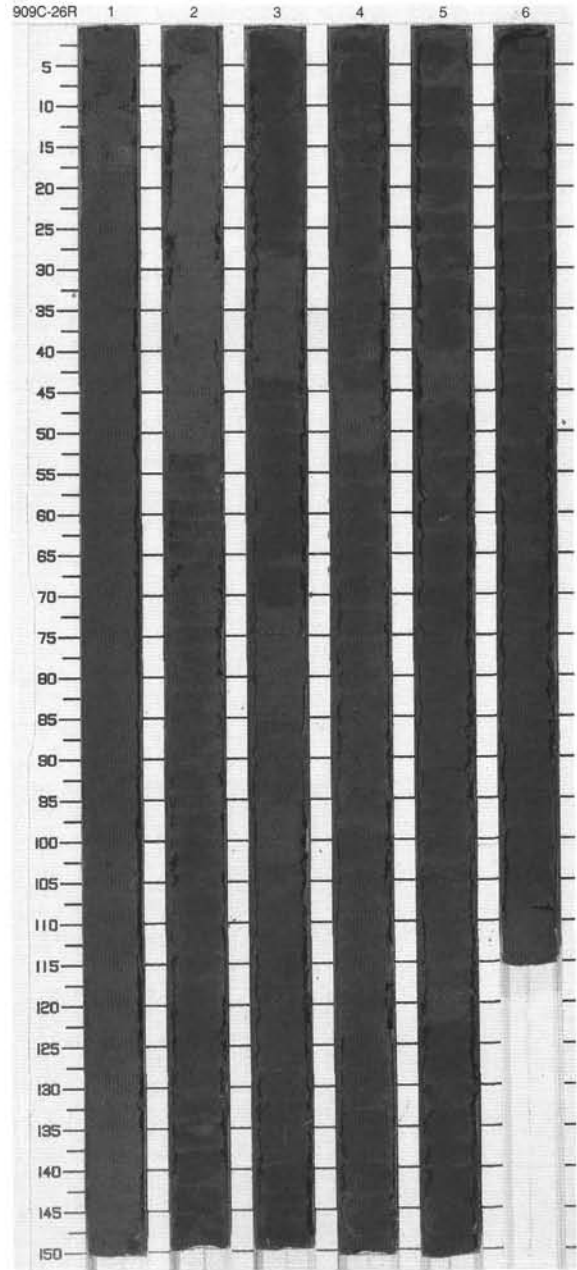


SITE 909 HOLE C CORE 25R CORED 316.4 - 326.0 mbsf

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</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), firm and homogeneous. Pyritized burrows, mm size, are scattered throughout the core. Black concretions of Fe sulphide, Ø <1.5 cm, are rare. Quartz and feldspar are the main silt- and sand-sized grains.</p> <p>Minor Lithology: CARBONATE CLAY, dark gray (5Y 4/1), occurs in Section 3, 43-44 and 103-106 cm. Inorganic calcite is a major clay- and silt-sized component.</p>
2	[Hatched pattern]	2				S		
3	[Hatched pattern]	3				P		
4	[Hatched pattern]	4				S P		
5	[Hatched pattern]	4				P		
						M		

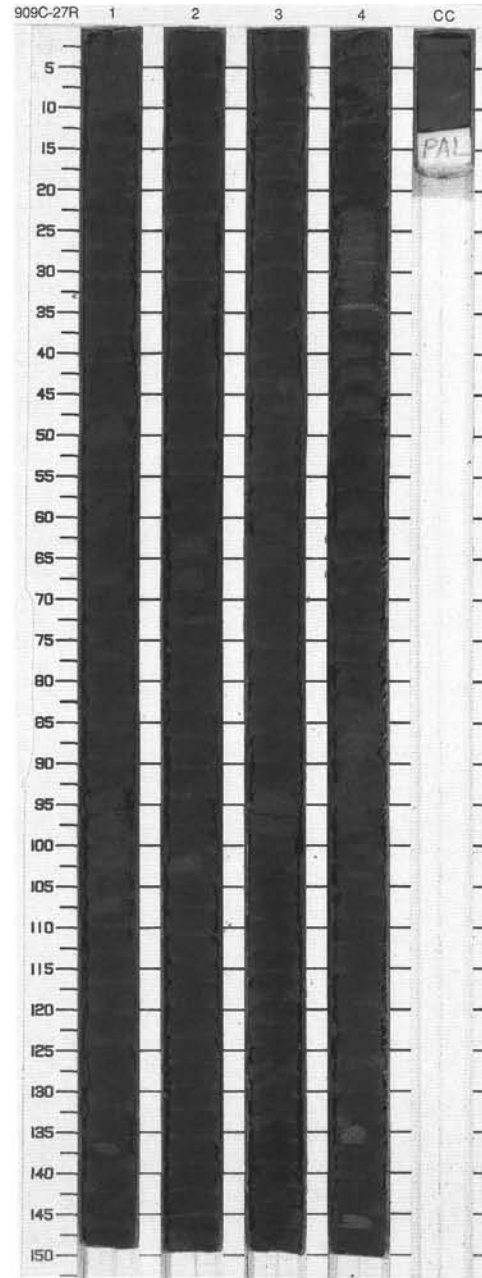


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Pliocene	}	X	S P	5Y 3/1	SILTY CLAY and CLAYEY SILT Major Lithologies: Fairly homogeneous, stiff, and very dark gray (5Y 3/1) SILTY CLAY and CLAYEY SILT. Bioturbation is slight; it is marked by pyritized burrows and pits that may be remnants of burrows.
2	[Hatched pattern]	2				S		
3	[Hatched pattern]	3				P		
4	[Hatched pattern]	3				P		
5	[Hatched pattern]	4				S		
6	[Hatched pattern]	4				P		
7	[Hatched pattern]	5				P		
8	[Hatched pattern]	6				S P		
		6				M		



SITE 909 HOLE C CORE 27R CORED 335.7 - 345.3 mbsf

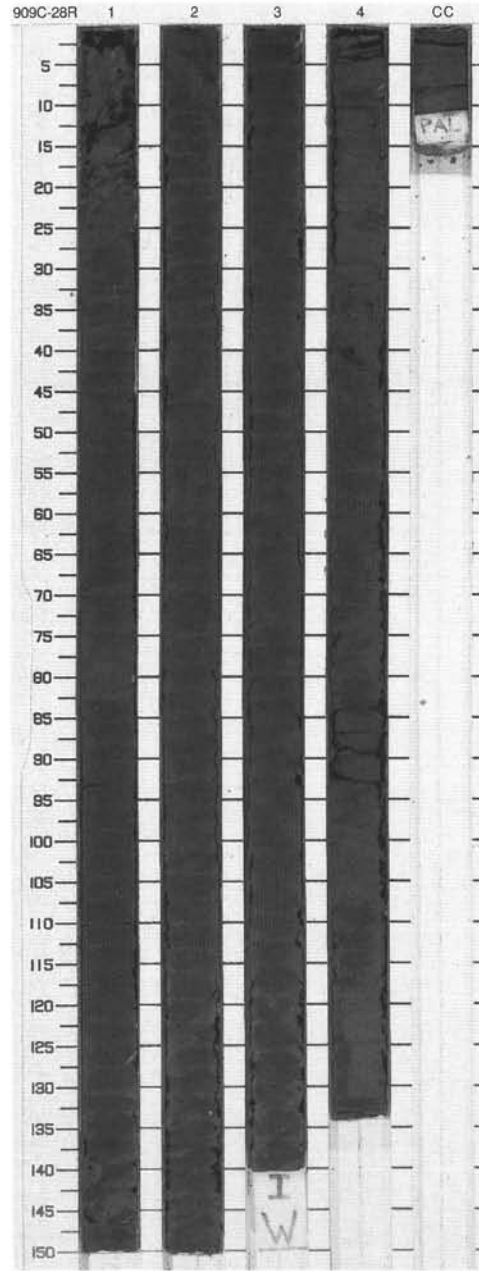
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	[Symbol]	[Symbol]	P	5Y 3/1	<p>SILTY CLAY and CLAY</p> <p>Major Lithologies: SILTY CLAY and CLAY, very dark gray (5Y 3/1), very homogeneous. Pyritized burrows, mm-sized, are sparsely scattered throughout the core but are locally concentrated in layers, <1 cm in thickness. Black incipient concretions, Ø <1 cm, are rare, as are burrows that are preserved as small pits when the sediment fill was washed out during splitting of the core. Quartz, feldspar, and inorganic calcite are the main silt- and sand-sized grains.</p> <p>Minor Lithology: CARBONATE CLAY, olive gray (5Y 5/2), occurs in four layers, <1 cm in thickness, interbedded with CLAY in Section 4, 27-35 cm. Top and bottom contacts of the lowermost, and thickest, layers are abrupt. Inorganic calcite comprises up to 50% of the lithology.</p>
2	[Pattern]	2	[Symbol]	[Symbol]	S P		
3	[Pattern]	3	[Symbol]	[Symbol]	P		
4	[Pattern]	3	[Symbol]	[Symbol]	P		
5	[Pattern]	4	[Symbol]	[Symbol]	S P		
6	[Pattern]	4	[Symbol]	[Symbol]	S P		
		CC			P M		



SITE 909 HOLE C CORE 28R

CORED 345.3 - 354.9 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	P	X	S 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), very firm, slightly bioturbated throughout the core. Relatively large, subhorizontal burrows (<i>Zoophycos</i>?) are present in Section 3. Pyritized small burrows (mm size) are common throughout the core. Large burrow in Section 4, 32-45 cm, is filled with coarser material.</p> <p>General Description: Section 1, 0-34 cm is filled with drilling slurry. The remainder is slightly fractured into biscuits.</p>
2	[Hatched pattern]	2	P		P		
3	[Hatched pattern]	3	P		P		
4	[Hatched pattern]	3	P		S		
5	[Hatched pattern]	4	P		I		
6	[Hatched pattern]	4	P		P		
	[Hatched pattern]	CC			M		

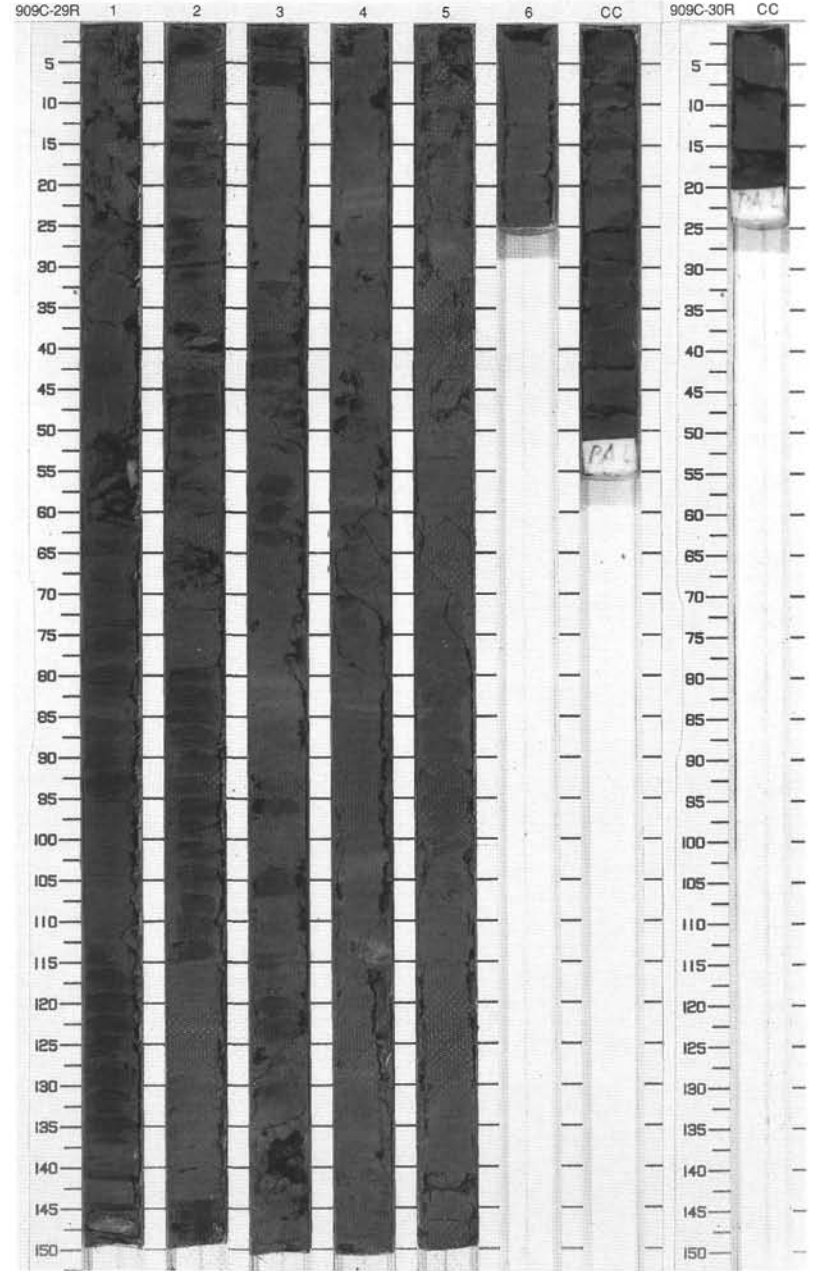


SITE 909 HOLE C CORE 29R CORED 354.9 - 364.6 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		Miocene-Pliocene	C } P }	W - - - W W - - - W W - - - W W - - - W W - - - W W - - - W W - - - W W - - - W	S P P S P P P P P	5Y 3/1 2.5Y 5/2 5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1) SILTY CLAY. Quartz content is 15%, feldspar 5%, with trace amounts (2%) of mica, glauconite, opaques, and accessory minerals.</p> <p>Minor Lithology: Grayish brown (2.5Y 5/2) CARBONATE-BEARING CLAY occurs in Section 3, 75-85 cm, and within other sections as mm-scale complete or partial layers. Clay-sized carbonate grains constitute 25% of the lithology. Silt-sized quartz constitutes 10%. Feldspar, mica, volcanic glass, and opaques occur in small amounts (2%).</p> <p>General Description: Major lithology occupies 90% of the core. Thin CARBONATE-BEARING CLAY layers are common in Sections 2, 4, and 5. Bioturbation ranges from none to extreme, and is manifest when present as mottled and incomplete subhorizontal layers. Single carbonate and pyrite concretions occur in Section 1, 43 cm.</p>
2							
3							
4							
5							
6							
7							
8	CC						
					M		

SITE 909 HOLE C CORE 30R CORED 364.6 - 374.1 mbsf

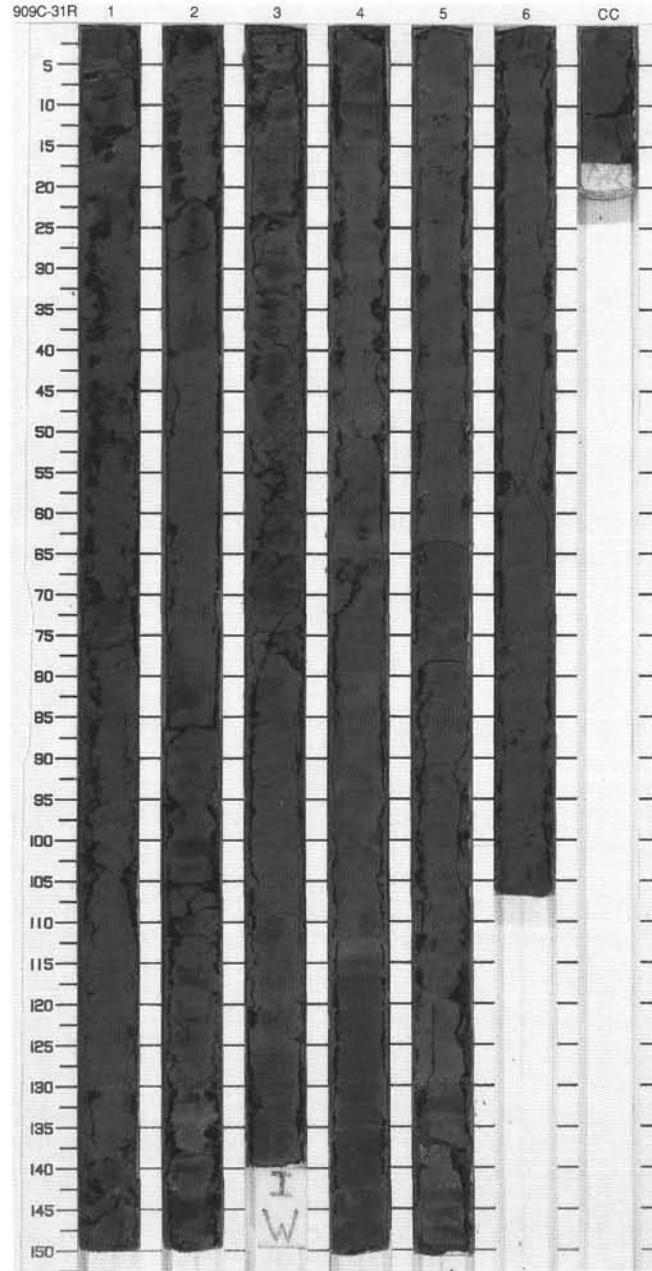
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
		Mio.-Plio.	}		S M		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), homogeneous.</p>



SITE 909 HOLE C CORE 31R

CORED 374.1 - 383.6 mbsf

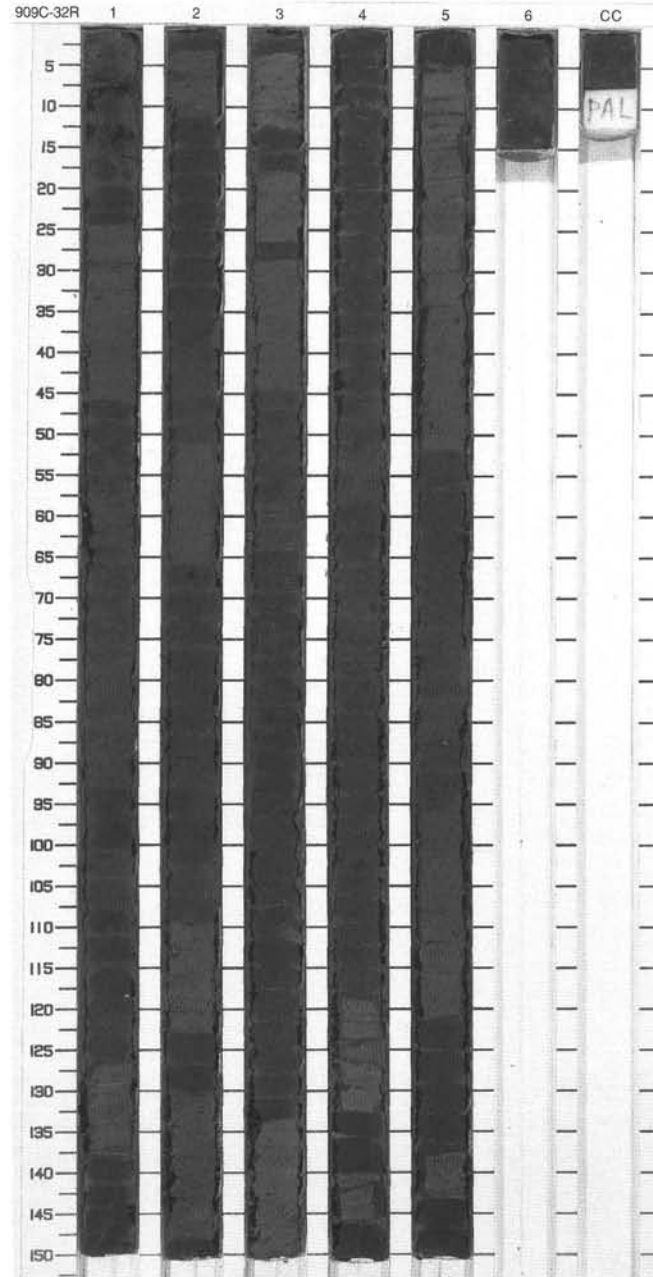
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	~		P	5Y 3/1 To 5Y 3/2	SILTY CLAY Major Lithology: SILTY CLAY, homogeneous, very dark gray (5Y 3/1), moderately bioturbated. White silt burrow fills are abundant.
2	[Hatched pattern]	2	U		S P	5Y 3/1 To 2.5Y 5/2	Minor Lithologies: CARBONATE SILTY CLAY, homogeneous, grayish brown (2.5Y 5/1), moderately bioturbated in Section 2, 30-80 cm. Inorganic calcite is abundant. CARBONATE CLAY, homogeneous, grayish brown (2.5Y 5/1), moderately bioturbated in Section 4, 112-115 cm.
3	[Hatched pattern]	3	U		S		
4	[Hatched pattern]	4	U		P	5Y 3/1	
5	[Hatched pattern]	4	U		I		
6	[Hatched pattern]	4	U		S P	5Y 3/1 To 2.5Y 5/2	
7	[Hatched pattern]	5	~		S		
8	[Hatched pattern]	6	~		P	5Y 3/1	
		CC			M		



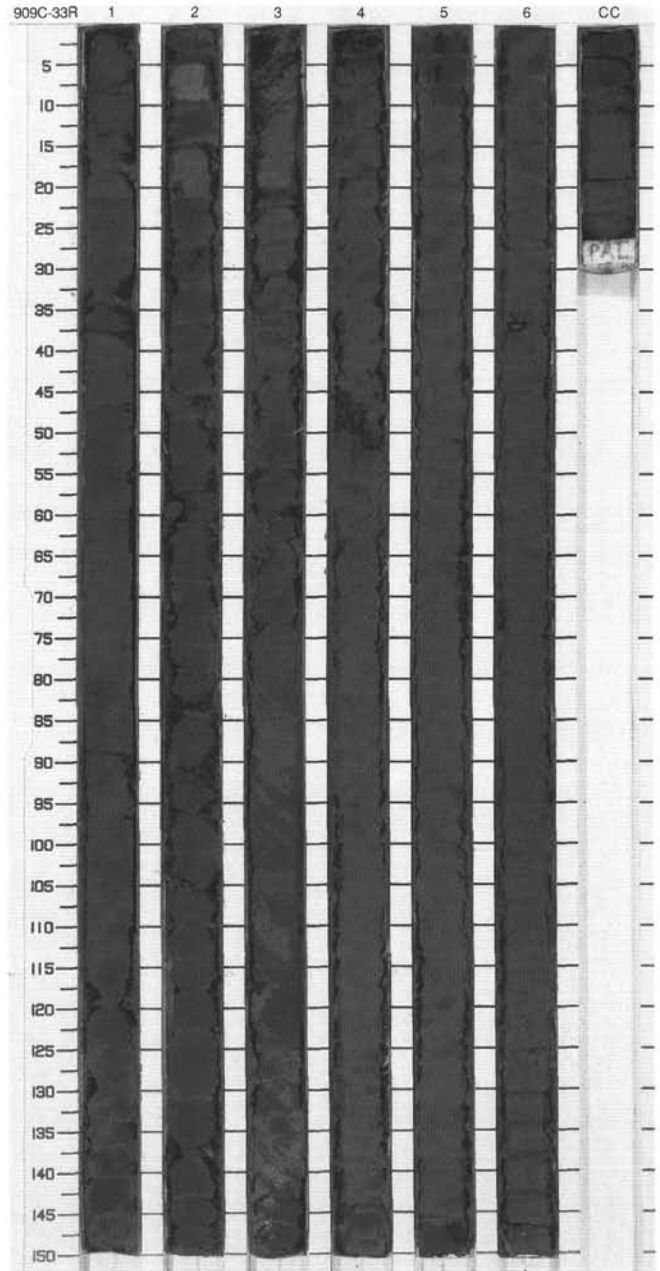
SITE 909 HOLE C CORE 32R

CORED 383.6 - 393.1 mbsf

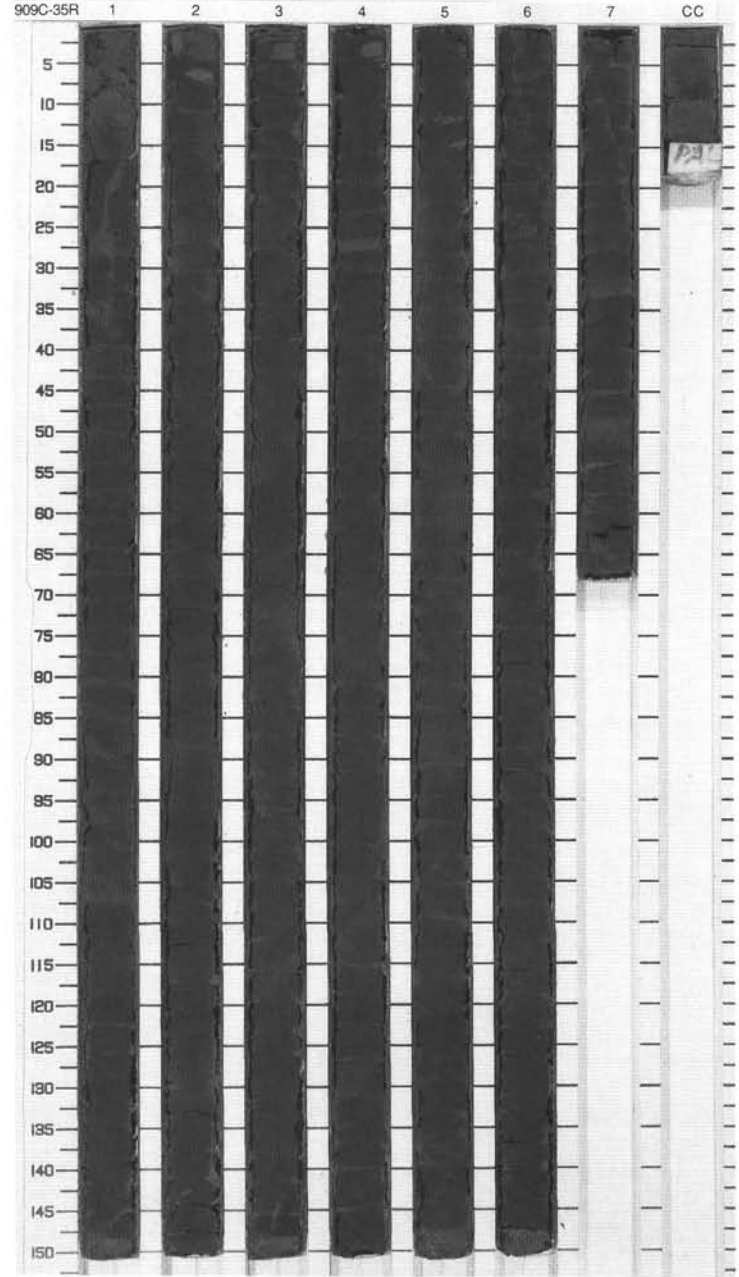
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1			}		S		<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1) SILTY CLAY. Quartz (~15%) and feldspar (~4%) are relatively constant constituents. Opaque particles are a variable minor (1%-4%) component. Inorganic calcite occurs in small amounts (2%-3%).</p> <p>General Description: The core consists of very firm, drilling biscuits. Bioturbation is evident in the form of mottled surfaces and faint subhorizontal burrows. Some burrows are pyritized, others washed out during splitting.</p>
2			}		P		
3			}		P		
4		Miocene-Pliocene	}}		P	5Y 3/1	
5			}		P		
6			}		S		
7			}		S		
8			}		P		
9			}		S		
10			}		M		



Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		~		S P		<p>SILTY CLAY</p> <p>Major Lithology: Homogeneous SILTY CLAY, very dark gray (5Y 3/1), with slight to moderate bioturbation throughout the core. The sediment is composed of ~63%-68% clay, 15%-20% quartz and ~6% feldspar grains. Fragmented diatoms (<1%) are observed in Section 5, 51-52 cm. Burrows, filled with pyritized material are common.</p>
2	[Hatched pattern]	2		~		P		
3	[Hatched pattern]	3		~		P		
4	[Hatched pattern]	4		~		P		
5	[Hatched pattern]	4	Miocene-Pliocene	~		P	5Y 3/1	
6	[Hatched pattern]	5		~		S P		
7	[Hatched pattern]	6		~		P		
8	[Hatched pattern]	6		~		P		
9	[Hatched pattern]	6		~		P		
		CC				M		

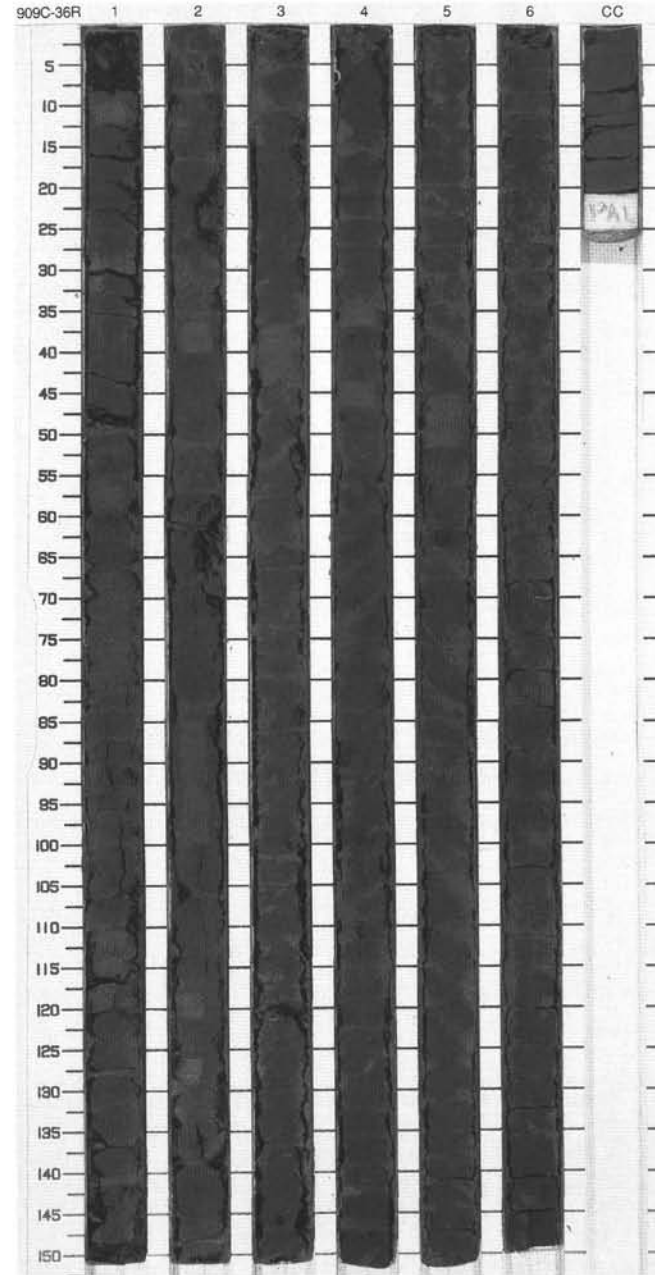


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene-Pliocene	}	X	S	5Y 3/1	CLAYEY SILT and SILTY CLAY Major Lithologies: Structureless, stiff, CLAYEY SILT to SILTY CLAY, very dark gray (5Y 3/1). Bioturbation is marked by faint color changes visible only on wet split surfaces. The sand fraction in CLAYEY SILT is relatively high, and may exceed the 10% boundary for mud, but remains in the fine sand fraction. Bioturbation is more visible in the finer grained lower part of the core, Section 6, 50 cm to Section CC.
2		P						
3		P						
4		S						
5		P						
6		S						
7		P						
8		P						
9		S P						
CC		M						



SITE 909 HOLE C CORE 36R CORED 422.1 - 431.7 mbsf

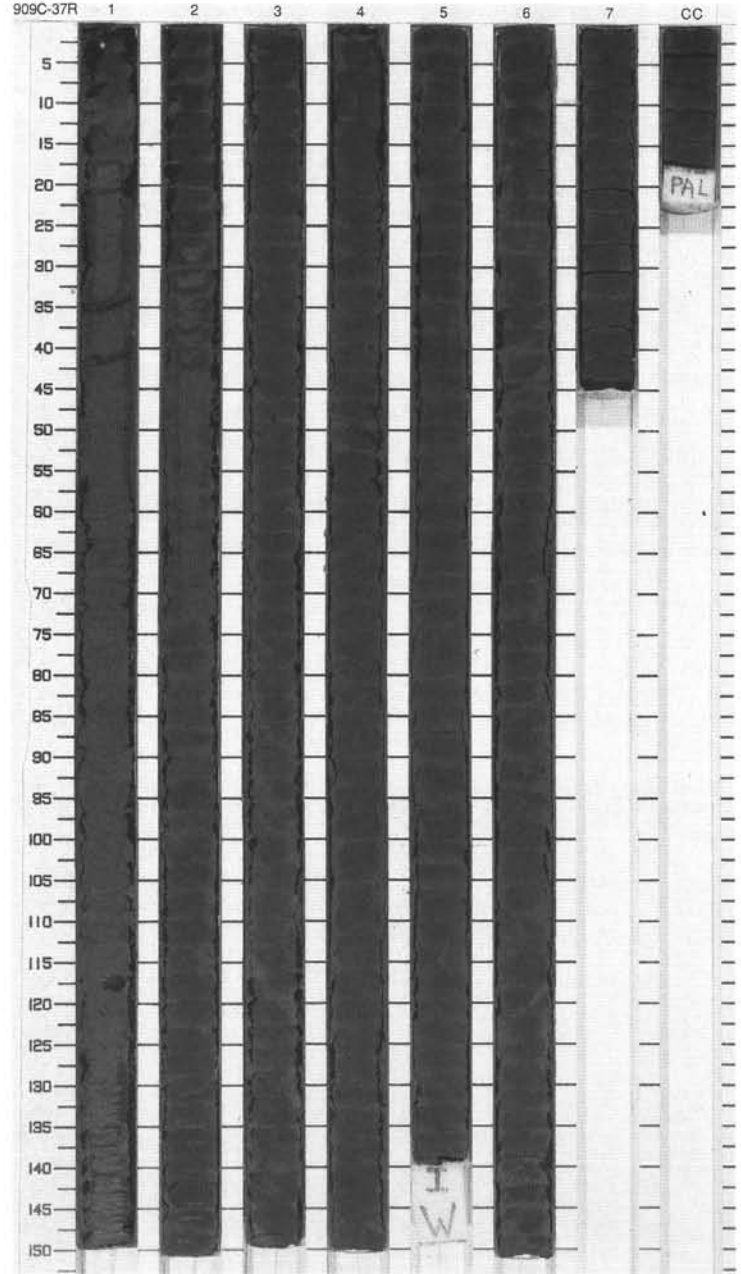
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene - Pliocene	}		P	5Y 3/1	CLAYEY SILT and SILTY CLAY Major Lithologies: CLAYEY SILT and SILTY CLAY, very dark gray (5Y 3/1), fissile and homogeneous. Sand content in CLAYEY SILT locally increases into clayey mud range. Rare burrows were seen in Section 3, 57-61 cm; Section 4, 9-10 cm; Section 5, 90 cm. Quartz is the major silt- and sand-sized component.
2		2				P		
3		3				P		
4		3				S		
5		4				P		
6		4				P		
7		5				S		
8		6				P		
9		CC				M		



SITE 909 HOLE C CORE 37R

CORED 431.7 - 441.3 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: Homogeneous very dark gray (5Y 3/1) SILTY CLAY and CLAYEY SILT occur throughout the core. Entire core in biscuits related to drilling disturbance.</p> <p>General Description: Pyrite-filled burrows (1-10 mm scale). Small empty pockets (Ø 1-5 mm) are common throughout the core, but larger subhorizontal burrows (1-5 mm width, 1-5 cm length) filled with dark gray (5Y 4/1) SILTY CLAY are found from Section 4, 108 cm to bottom of core.</p>
2	[Hatched pattern]	2		~		P		
3	[Hatched pattern]	3		~		S P		
4	[Hatched pattern]	4		~		P		
5	[Hatched pattern]	5		~		P		
6	[Hatched pattern]	6		~		P		
7	[Hatched pattern]	7		~		P		
8	[Hatched pattern]	6		~		P	5Y 3/1	
9	[Hatched pattern]	5		~		P		
	[Hatched pattern]	4		~		P		
	[Hatched pattern]	3		~		P		
	[Hatched pattern]	2		~		P		
	[Hatched pattern]	1		~		P		
	[Hatched pattern]	CC		~		S P M		

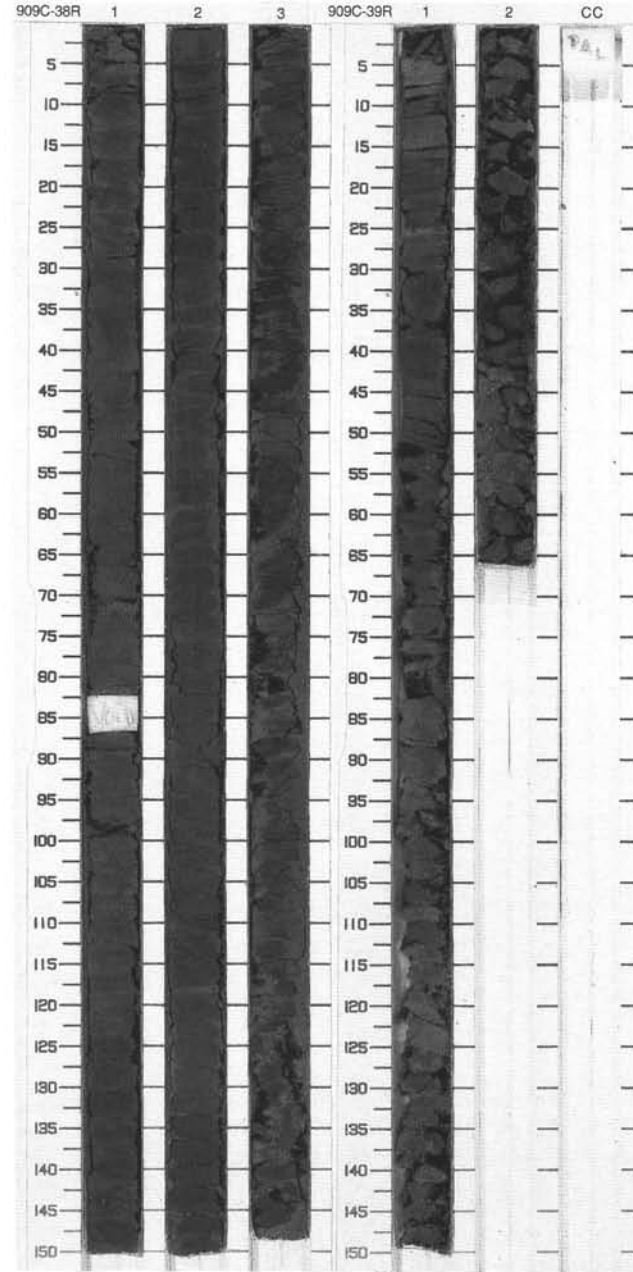


SITE 909 HOLE C CORE 38R CORED 441.3 - 451.0 mbsf

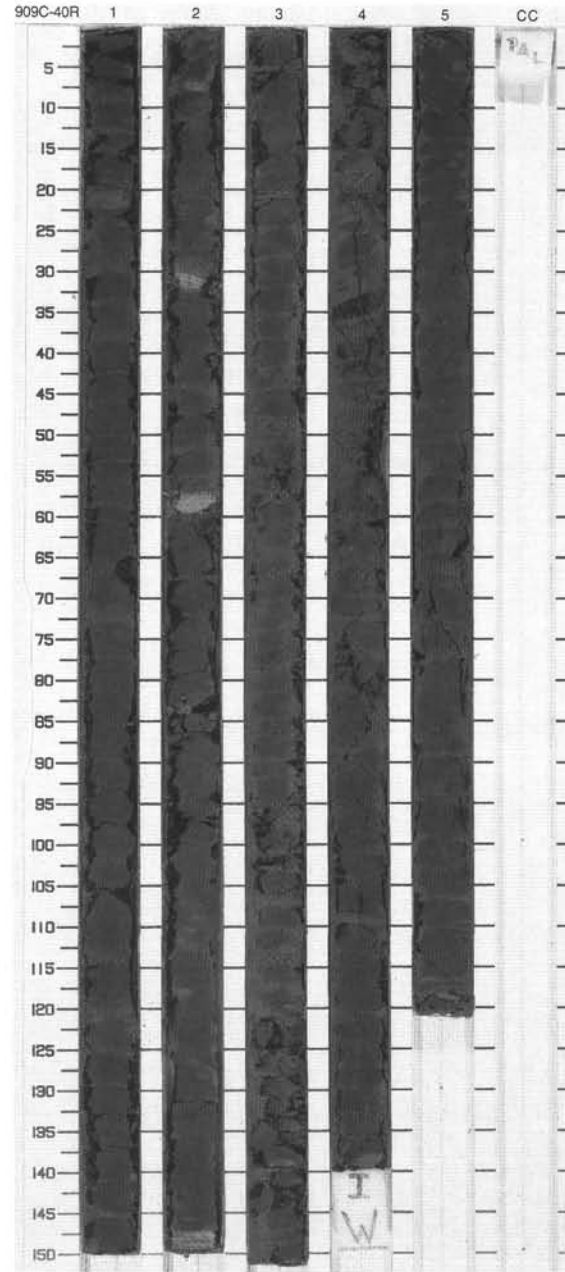
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Miocene-Pliocene	}		P	5Y 3/1 To 5Y 5/2	SILTY CLAY and CARBONATE-BEARING CLAYEY SILT Major Lithologies: SILTY CLAY, very dark gray (5Y 3/1), fissile, occurs in Sections 1 to 3. Burrows occur throughout and are filled with CARBONATE SILT and CARBONATE CLAYEY SILT, olive gray (5Y 5/2). Identified burrows include <i>Planolites</i> and <i>Teichichnus</i> -like structures. Concentrations of burrows are present in Section 1, 102-125 cm; Section 2, 42-61 cm. Black Fe-sulphide concretions occur in Section 2, 77 cm, 80 cm. Section 3 consists of very dark gray and olive gray laminae of CARBONATE-BEARING CLAYEY SILT and SILTY CLAY, which are planar and horizontal to subhorizontal. Obvious burrows are very rare.
						S		
						P		
2		2				S		
						P		
						S		
3		3				S		
						P		
						S		
4						P		
						M		

SITE 909 HOLE C CORE 39R CORED 451.0 - 460.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Miocene	}		S	5Y 3/1	SILTY CLAY Major Lithology: Very dark gray (5Y 3/1) SILTY CLAY, fissile. Rather slight bioturbation marked by sparse <i>Planolites</i> and <i>Zoophycos</i> traces. Minor Lithology: A dark grayish brown (2.5Y 3/2) CARBONATE CLAY layer, 0.8 cm thick, occurs in Section 1, 25 cm. It is homogeneous and composed mainly of clay-sized carbonate grains that do not effervesce with cold 10% HCl. A similar layer, 1 mm thick, occurs in Section 1, 77 cm. General Description: The core is strongly disturbed by coring. Drilling biscuits may be overturned in Section 2.
						S		
				}}		P		
			M					
2		2		}				
			M					



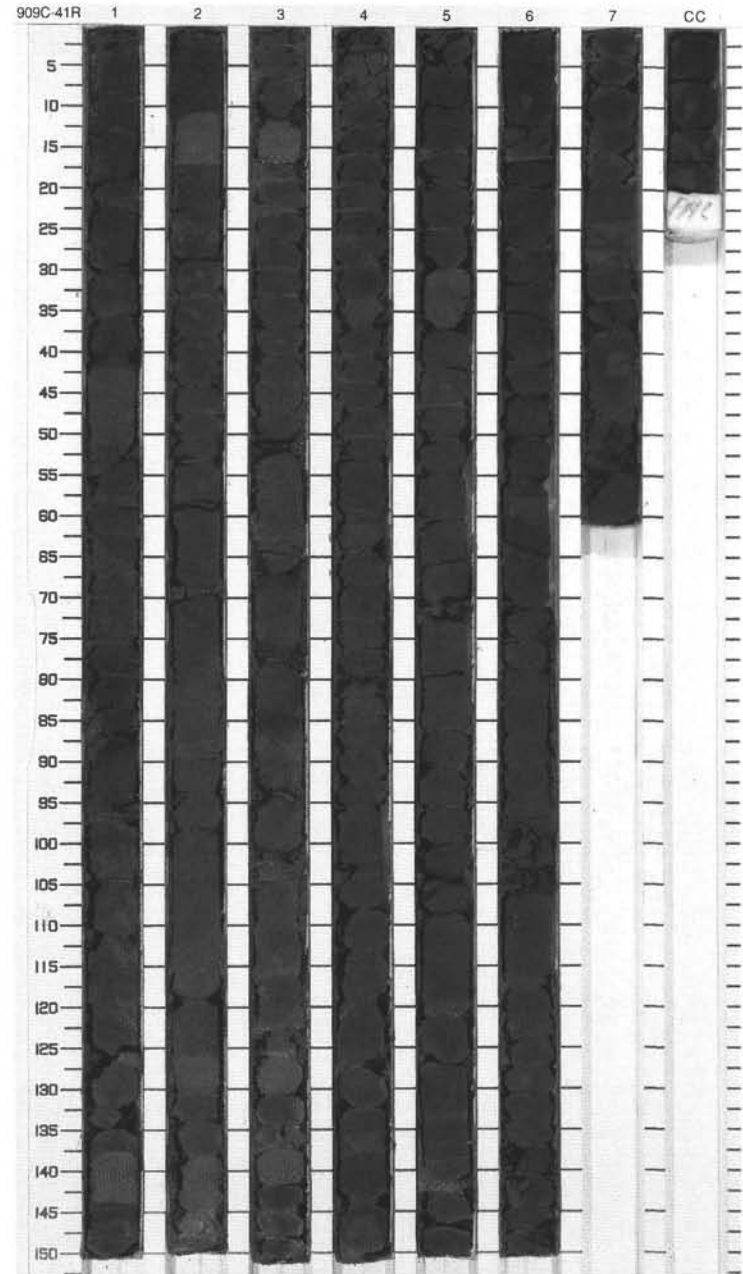
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		}}		S P		<p>SILTY CLAY</p> <p>Major Lithology: Structureless, very dark gray (5Y 3/1), SILTY CLAY. In Sections 1-3 a few burrows are marked by pyrite crystals or by subtle changes in color. Sections 4 and 5 are very homogeneous, more silty, and less disturbed by drilling.</p> <p>Minor Lithology: Three layers of lithified, grayish brown (2.5Y 5/2) CARBONATE CLAY occur in Section 2, 30-32, 57-59, and 83-83.5 cm. Their lower contacts coincide with the limit of drilling biscuits. The upper contact is sharp but bioturbated.</p>
2	[Hatched pattern]	2		P } 		P		
3	[Hatched pattern]	2		}}		P		
4	[Hatched pattern]	3	Miocene	}}		S P	5Y 3/1	
5	[Hatched pattern]	3		}}		S P		
6	[Hatched pattern]	4		}}		P		
7	[Hatched pattern]	5		}}		P		
		5				I		
		5				S P		
		5				P		
		5				M		



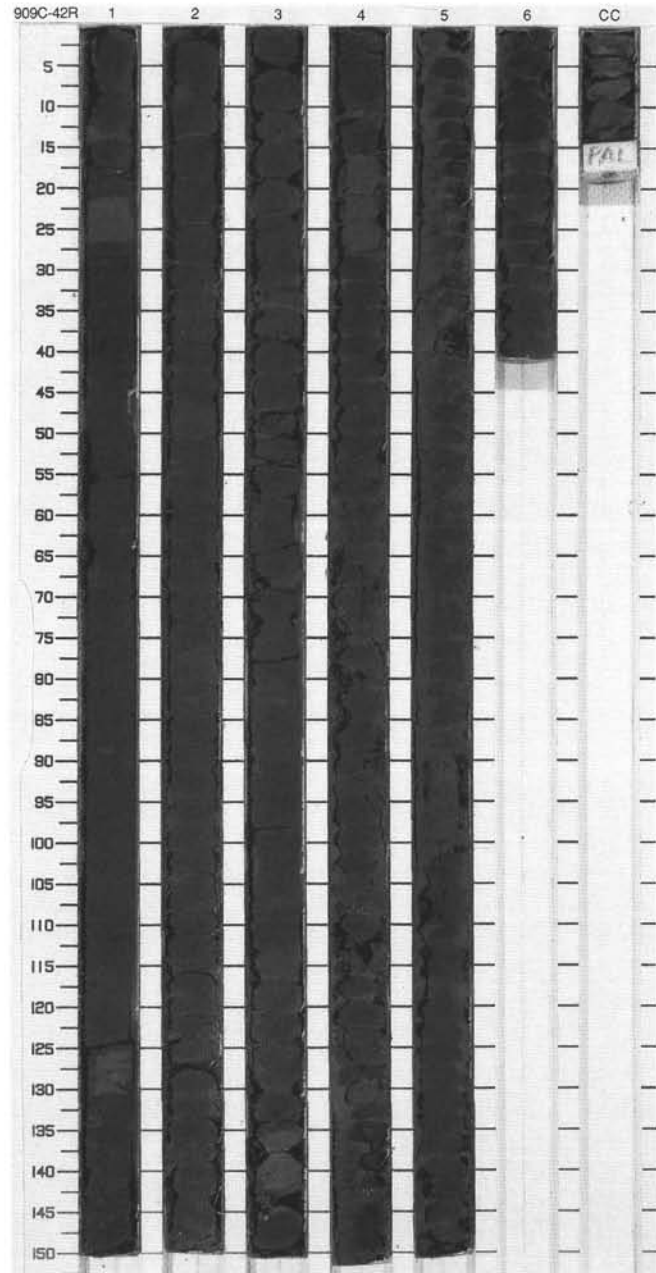
SITE 909 HOLE C CORE 41R

CORED 470.3 - 480.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}}	W	P		<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1) SILTY CLAY. Lithology is very firm throughout. Quartz (~22%) and feldspar (~5%) are the important non-clay minerals. Inorganic calcite, mica, and glauconite occur in small amounts (3%). Rounded silt-sized opaques also occur (1%).</p> <p>General Description: Dominant lithology occupies entire core. Bioturbation is light to moderate, and silty material and pyrite grains are concentrated in individual burrows. Sediment is otherwise homogeneous.</p>
2		2		}}		P		
3		3		}}		P		
4		3		}}		P		
5		4	Miocene	}}		S	5Y 3/1	
6		4		}}		P		
7		5		}}		S		
8		5		}}		P		
9		6		}}		P		
		7		}}		P		
		CC		}}		M		



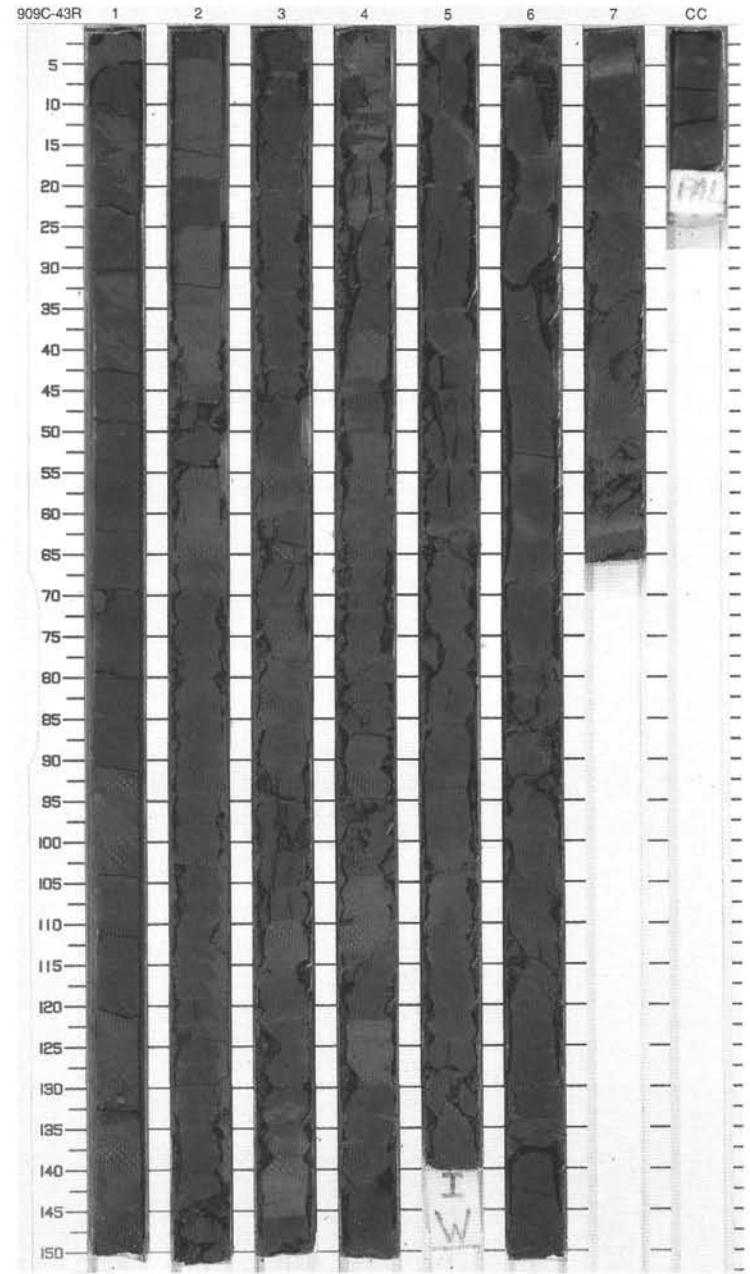
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		[Wavy pattern]	[Vertical line]	P		<p>SILTY CLAY</p> <p>Major Lithology: Homogeneous SILTY CLAY, very dark gray (5Y 3/1), with slight to moderate bioturbation. Burrows are commonly filled with pyritized material. In the undisturbed part of Section 1 the silt content is ~20%. In Section 3, where the sediment is fractured into drilling biscuits, it reaches ~40%. Spherical opaques are present as a minor component (~1%).</p>
2	[Hatched pattern]	2		[Wavy pattern]	[Vertical line]	P		
3	[Hatched pattern]	3		[Wavy pattern]	[Vertical line]	P		
4	[Hatched pattern]	3	Miocene	[Wavy pattern]	[Vertical line]	S P	5Y 3/1	
5	[Hatched pattern]	4		[Wavy pattern]	[Vertical line]	P		
6	[Hatched pattern]	5		[Wavy pattern]	[Vertical line]	P		
7	[Hatched pattern]	6		[Wavy pattern]	[Vertical line]	P		
8	[Hatched pattern]	CC		[Wavy pattern]	[Vertical line]	M		



SITE 909 HOLE C CORE 43R

CORED 489.5 - 499.0 mbsf

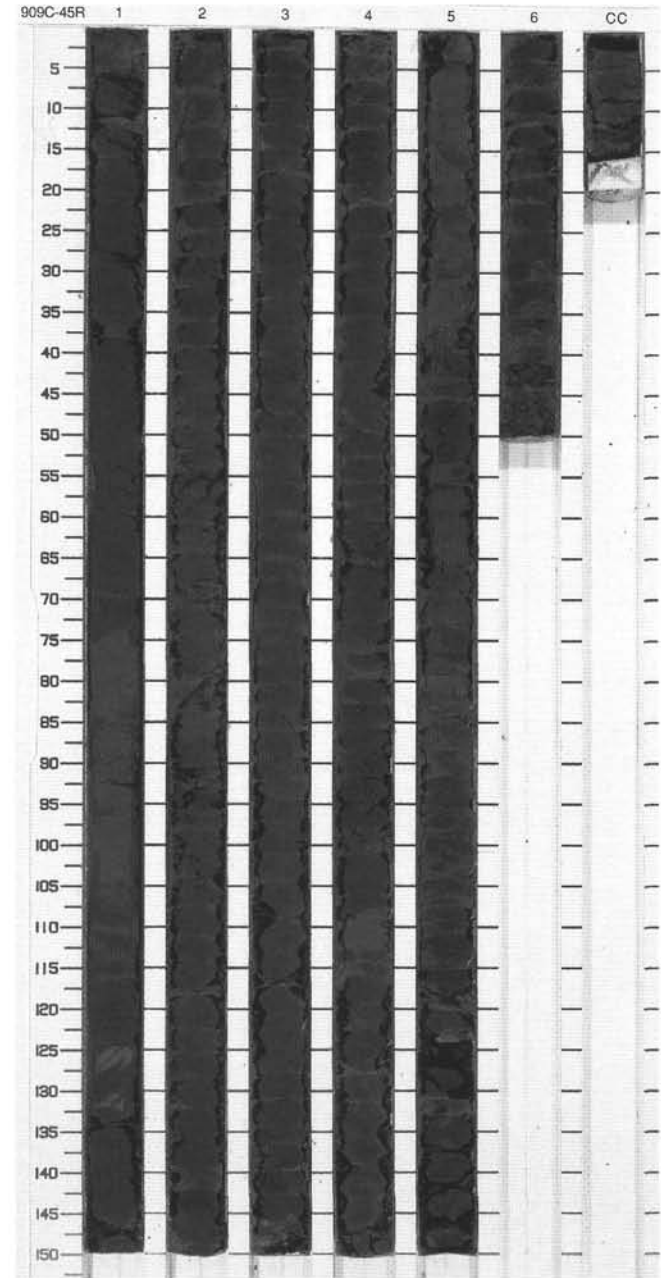
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		P	~	S P		SILTY CLAY Major Lithology: Very dark gray (5Y 3/1) SILTY CLAY. Quartz (20%) and feldspar (5%) are the major non-clay minerals. Inorganic calcite, mica, glauconite, and opaques are minor (2%) components. The lithology is very firm throughout.
2		2		P	~	P		
3		3		P	~	P		Minor Lithology: Gray (5Y 5/1) CARBONATE CLAY occurs in Section 7, 4 and 60 cm. Consists nearly exclusively of finely crystalline calcite.
4		4		P	~	P		
5		5	Miocene	P	~	P	5Y 3/1	General Description: Major lithology occupies >95% of the core. Bioturbation is evident in the form of mottled surfaces and individual, commonly pyritized, burrows. A single mudstone pebble, Ø 1.0 cm, occurs in the drilling slurry in Section 7, 53 cm, and may be contamination.
6		6		P	~	P		
7		7		P	~	P		
8		8		P	~	P		
9		9		P	~	S P		
CC		CC		P	~	M		



Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		P		P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), with faint evidence of layering and moderate, but pervasive bioturbation, which may be disrupting the bedding.</p> <p>Minor Lithology: CARBONATE-BEARING CLAY, gray (5Y 5/1), occurs as thin layers in Section 1, 28-31, 50, and 101-104 cm. It is also common in burrows in Sections 1 and 2, and present in one burrow in Section 3, 105 cm. In Section 5, 35-39 cm, it is present in thin (<1-mm-thick) layers above a scoured base, but is not the scour filling material. CARBONATE-BEARING CLAY burrows cut these layers.</p> <p>General Description: Small pyrite rhombs, <1-2 mm, fill many of the carbonate-bearing clay burrows and are dispersed throughout the sediment.</p>
2	[Symbol]	2		P		P		
3	[Symbol]	3		P		P		
4	[Symbol]	4		P		P		
5	[Symbol]	5		P		P		
6	[Symbol]	6		P		P		
7	[Symbol]	7		P		P		
8	[Symbol]	8		P		P		
	[Symbol]	9		P		P		
	[Symbol]	10		P		P		
	[Symbol]	11		P		P		
	[Symbol]	12		P		P		
	[Symbol]	13		P		P		
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SITE 909 HOLE C CORE 45R CORED 508.6 - 518.3 mbsf

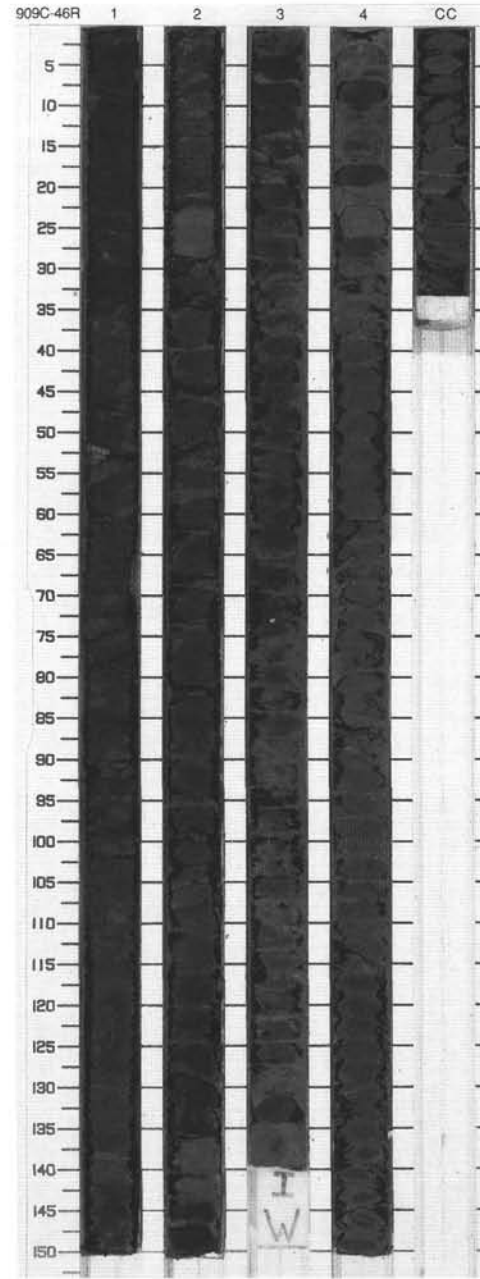
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		}}		S P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, homogeneous, very dark gray (5Y 3/1) and moderately bioturbated. White silt burrow fills are abundant. Pyrite concretions (Ø 2-4 mm) are present in Sections 3, 4, 5, and 6.</p> <p>Minor Lithologies: CARBONATE-BEARING SILTY CLAY, homogeneous and very dark gray, (5Y 3/1). Inorganic calcite particles (averaging 12%) are present in Section 4, 50-80 cm.</p>
2	[Hatched pattern]	2		}}		P		
3	[Hatched pattern]	3		}}		P		
4	[Hatched pattern]	3	Miocene	}}		P	5Y 3/1	
5	[Hatched pattern]	4		}}		S P		
6	[Hatched pattern]	6		}}		P		
7	[Hatched pattern]	5		}}		P		
8	[Hatched pattern]	6		}}		M		



SITE 909 HOLE C CORE 46R

CORED 518.3 - 528.0 mbsf

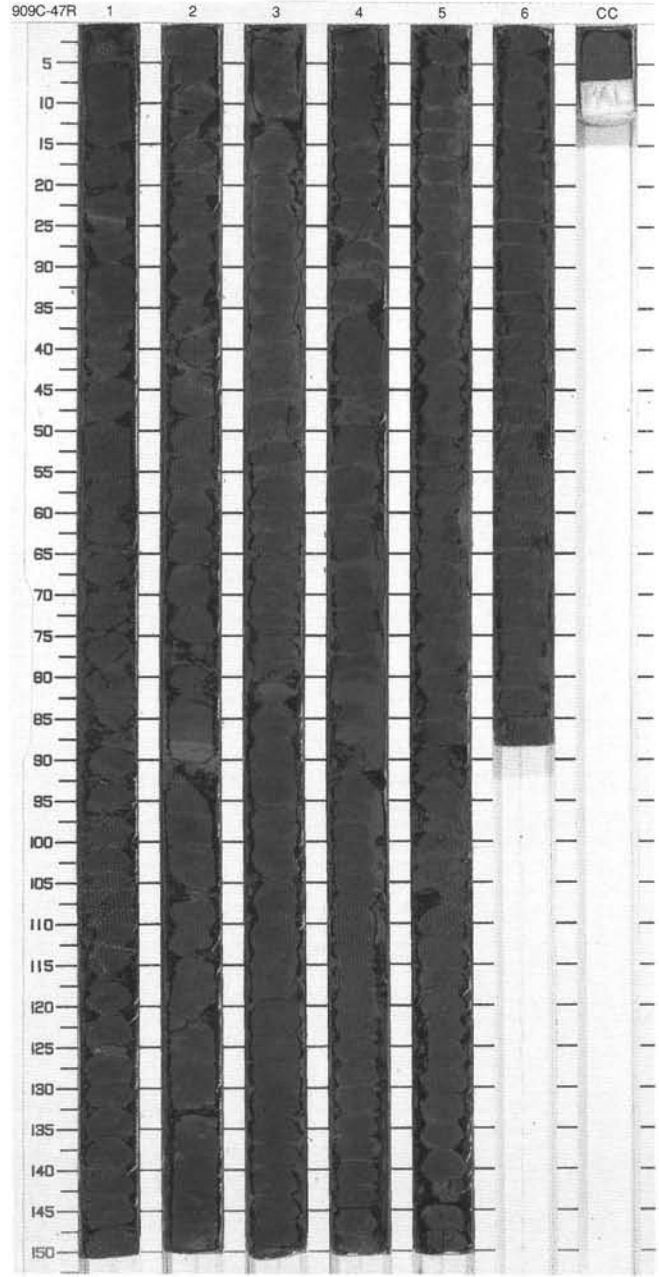
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Lithology]	1		[Structure]		P	5Y 3/1 To 5Y 3/2	<p>CARBONATE CLAY</p> <p>Major Lithology: CARBONATE CLAY, very dark gray (5Y 3/1), dark gray (5Y 3/2), and olive gray (5Y 4/2), finely laminated (1-3 mm thick) and slightly bioturbated. Inorganic calcite particles (averaging 30%) are present throughout. Peak values up to 90% occur in Section 2, 104-105 cm; Section 3, 34-36 and 80-93 cm; Section 4, 22-26 and 81-87 cm.</p>
2	[Lithology]	2		[Structure]		P		
3	[Lithology]	3	Miocene	[Structure]		S		
4	[Lithology]	3		[Structure]		S	5Y 3/1 To 5Y 4/2	
5	[Lithology]	4		[Structure]		S		
6	[Lithology]	4		[Structure]		P		
		CC				M		



SITE 909 HOLE C CORE 47R

CORED 528.0 - 537.7 mbsf

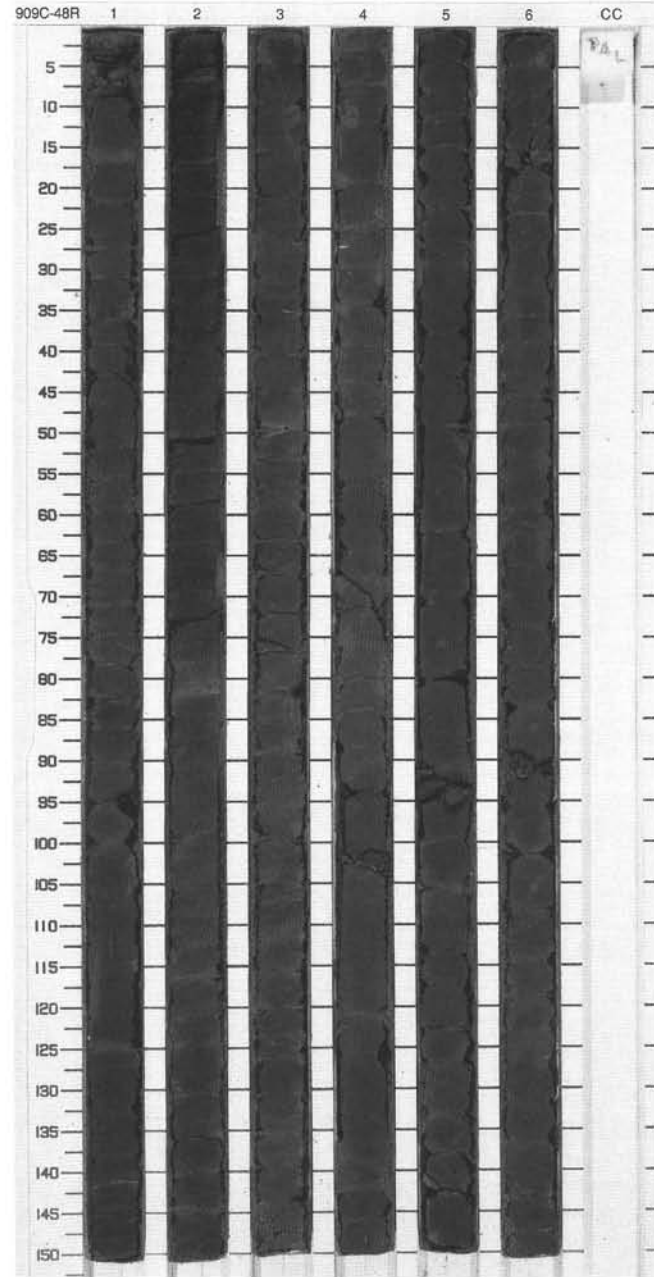
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	~	~	P	5Y 3/1 To 5Y 3/2	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1) to dark olive gray (5Y 3/2), throughout core. Color changes help to identify layering and bioturbation.</p> <p>Minor Lithology: CARBONATE-BEARING SILTY CLAY, grayish brown (2.5Y 5/2) and olive gray (5Y 4/2) grading to dark olive gray (5Y 3/2) in thin layers in Section 1, 23.0-23.5 cm, Section 2, 88-91 cm, Section 3, 81-82 cm, and as burrow fillings, primarily in Sections 1 through 3. The majority of burrows are flat and parallel to bedding.</p> <p>General Description: Small pyrite rhombs are common. Most are <1 mm thick, and almost half of them occur within CARBONATE-BEARING SILTY CLAY rimmed burrows. Some lighter beds and burrows contain flat, black areas, which may be disseminated sulfides. Many biscuits are rotated.</p> <p>Dropstone:? Section 1, 93 cm, Ø 1.3 cm, flat, striated, plutonic, at the top of a biscuit - in place?</p>
2	[Hatched pattern]	2		~	~	S		
3	[Hatched pattern]	3		~	~	P		
4	[Hatched pattern]	4		~	~	P		
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		
10	[Hatched pattern]	10		~	~	P		
11	[Hatched pattern]	11	~	~	P			
12	[Hatched pattern]	12	~	~	P			
13	[Hatched pattern]	13	~	~	P			
14	[Hatched pattern]	14	~	~	P			
15	[Hatched pattern]	15	~	~	P			
16	[Hatched pattern]	16	~	~	P			
17	[Hatched pattern]	17	~	~	P			
18	[Hatched pattern]	18	~	~	P			
19	[Hatched pattern]	19	~	~	P			
20	[Hatched pattern]	20	~	~	P			
21	[Hatched pattern]	21	~	~	P			
22	[Hatched pattern]	22	~	~	P			
23	[Hatched pattern]	23	~	~	P			
24	[Hatched pattern]	24	~	~	P			
25	[Hatched pattern]	25	~	~	P			
26	[Hatched pattern]	26	~	~	P			
27	[Hatched pattern]	27	~	~	P			
28	[Hatched pattern]	28	~	~	P			
29	[Hatched pattern]	29	~	~	P			
30	[Hatched pattern]	30	~	~	P			
31	[Hatched pattern]	31	~	~	P			
32	[Hatched pattern]	32	~	~	P			
33	[Hatched pattern]	33	~	~	P			
34	[Hatched pattern]	34	~	~	P			
35	[Hatched pattern]	35	~	~	P			
36	[Hatched pattern]	36	~	~	P			
37	[Hatched pattern]	37	~	~	P			
38	[Hatched pattern]	38	~	~	P			
39	[Hatched pattern]	39	~	~	P			
40	[Hatched pattern]	40	~	~	P			
41	[Hatched pattern]	41	~	~	P			
42	[Hatched pattern]	42	~	~	P			
43	[Hatched pattern]	43	~	~	P			
44	[Hatched pattern]	44	~	~	P			
45	[Hatched pattern]	45	~	~	P			
46	[Hatched pattern]	46	~	~	P			
47	[Hatched pattern]	47	~	~	P			
48	[Hatched pattern]	48	~	~	P			
49	[Hatched pattern]	49	~	~	P			
50	[Hatched pattern]	50	~	~	P			
51	[Hatched pattern]	51	~	~	P			
52	[Hatched pattern]	52	~	~	P			
53	[Hatched pattern]	53	~	~	P			
54	[Hatched pattern]	54	~	~	P			
55	[Hatched pattern]	55	~	~	P			
56	[Hatched pattern]	56	~	~	P			
57	[Hatched pattern]	57	~	~	P			
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60	[Hatched pattern]	60	~	~	P			
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62	[Hatched pattern]	62	~	~	P			
63	[Hatched pattern]	63	~	~	P			
64	[Hatched pattern]	64	~	~	P			
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68	[Hatched pattern]	68	~	~	P			
69	[Hatched pattern]	69	~	~	P			
70	[Hatched pattern]	70	~	~	P			
71	[Hatched pattern]	71	~	~	P			
72	[Hatched pattern]	72	~	~	P			
73	[Hatched pattern]	73	~	~	P			
74	[Hatched pattern]	74	~	~	P			
75	[Hatched pattern]	75	~	~	P			
76	[Hatched pattern]	76	~	~	P			
77	[Hatched pattern]	77	~	~	P			
78	[Hatched pattern]	78	~	~	P			
79	[Hatched pattern]	79	~	~	P			
80	[Hatched pattern]	80	~	~	P			
81	[Hatched pattern]	81	~	~	P			
82	[Hatched pattern]	82	~	~	P			
83	[Hatched pattern]	83	~	~	P			
84	[Hatched pattern]	84	~	~	P			
85	[Hatched pattern]	85	~	~	P			
86	[Hatched pattern]	86	~	~	P			
87	[Hatched pattern]	87	~	~	P			
88	[Hatched pattern]	88	~	~	P			
89	[Hatched pattern]	89	~	~	P			
90	[Hatched pattern]	90	~	~	P			
91	[Hatched pattern]	91	~	~	P			
92	[Hatched pattern]	92	~	~	P			
93	[Hatched pattern]	93	~	~	P			
94	[Hatched pattern]	94	~	~	P			
95	[Hatched pattern]	95	~	~	P			
96	[Hatched pattern]	96	~	~	P			
97	[Hatched pattern]	97	~	~	P			
98	[Hatched pattern]	98	~	~	P			
99	[Hatched pattern]	99	~	~	P			
100	[Hatched pattern]	100	~	~	P			
101	[Hatched pattern]	101	~	~	P			
102	[Hatched pattern]	102	~	~	P			
103	[Hatched pattern]	103	~	~	P			
104	[Hatched pattern]	104	~	~	P			
105	[Hatched pattern]	105	~	~	P			
106	[Hatched pattern]	106	~	~	P			
107	[Hatched pattern]	107	~	~	P			
108	[Hatched pattern]	108	~	~	P			
109	[Hatched pattern]	109	~	~	P			
110	[Hatched pattern]	110	~	~	P			
111	[Hatched pattern]	111	~	~	P			
112	[Hatched pattern]	112	~	~	P			
113	[Hatched pattern]	113	~	~	P			
114	[Hatched pattern]	114	~	~	P			
115	[Hatched pattern]	115	~	~	P			
116	[Hatched pattern]	116	~	~	P			
117	[Hatched pattern]	117	~	~	P			
118	[Hatched pattern]	118	~	~	P			
119	[Hatched pattern]	119	~	~	P			
120	[Hatched pattern]	120	~	~	P			
121	[Hatched pattern]	121	~	~	P			
122	[Hatched pattern]	122	~	~	P			
123	[Hatched pattern]	123	~	~	P			
124	[Hatched pattern]	124	~	~	P			
125	[Hatched pattern]	125	~	~	P			
126	[Hatched pattern]	126	~	~	P			
127	[Hatched pattern]	127	~	~	P			
128	[Hatched pattern]	128	~	~	P			
129	[Hatched pattern]	129	~	~	P			
130	[Hatched pattern]	130	~	~	P			
131	[Hatched pattern]	131	~	~	P			
132	[Hatched pattern]	132	~	~	P			
133	[Hatched pattern]	133	~	~	P			
134	[Hatched pattern]	134	~	~	P			
135	[Hatched pattern]	135	~	~	P			
136	[Hatched pattern]	136	~	~	P			
137	[Hatched pattern]	137	~	~	P			
138	[Hatched pattern]	138	~	~	P			
139	[Hatched pattern]	139	~	~	P			
140	[Hatched pattern]	140	~	~	P			
141	[Hatched pattern]	141	~	~	P			
142	[Hatched pattern]	142	~	~	P			
143	[Hatched pattern]	143	~	~	P			
144	[Hatched pattern]	144	~	~	P			
145	[Hatched pattern]	145	~	~	P			
146	[Hatched pattern]	146	~	~	P			
147	[Hatched pattern]	147	~	~	P			
148	[Hatched pattern]	148	~	~	P			
149	[Hatched pattern]	149	~	~	P			
150	[Hatched pattern]	150	~	~	P			
CC	[Hatched pattern]	CC	~	~	M			



SITE 909 HOLE C CORE 48R

CORED 537.7 - 547.3 mbsf

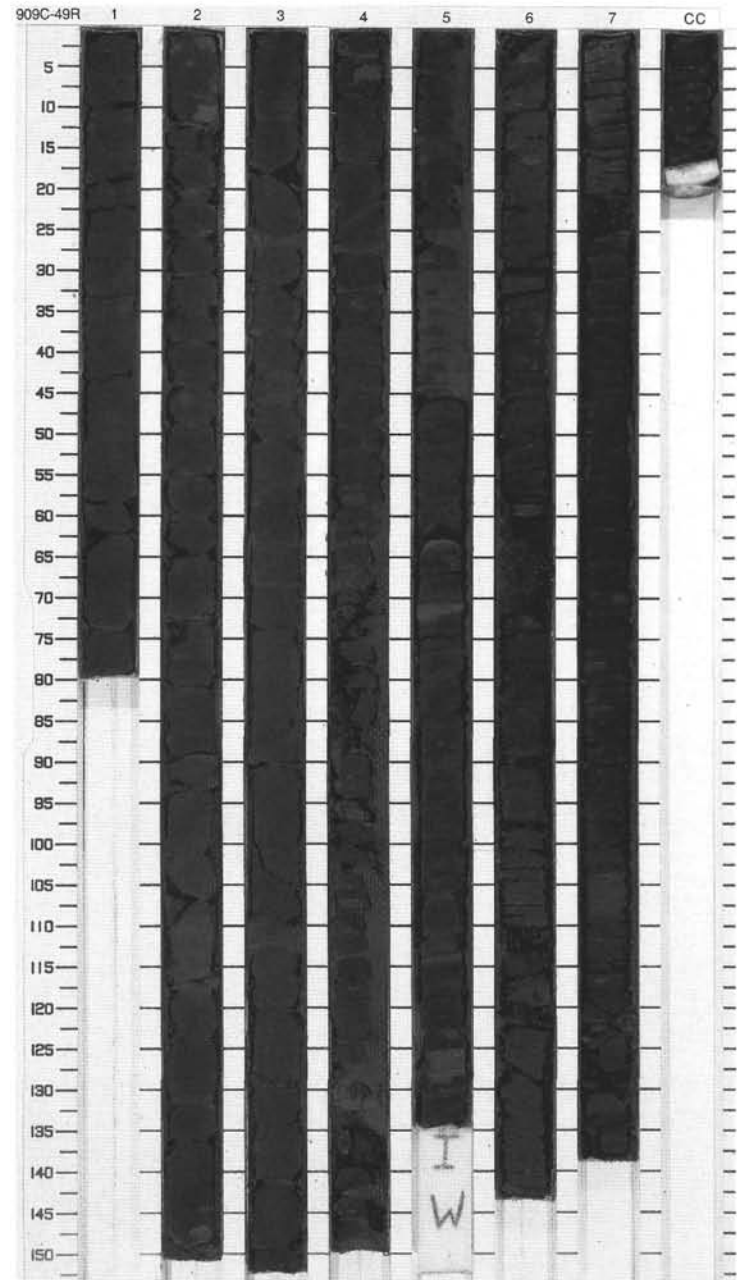
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1		[Symbol]	X	P	5Y 3/1 To 10YR 3/1	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: Massive SILTY CLAY and CLAYEY SILT, very dark gray (5Y 3/1 and 10YR 3/1). Both lithologies commonly show slight to heavy bioturbation but sediment in Sections 5 and 6 is rarely bioturbated, with only small burrows (mm size) visible. Burrows are commonly filled with light colored carbonate-rich or pyritized sediment.</p>
2	[Pattern]	2		[Symbol]		P	10YR 3/1	
3	[Pattern]	3		[Symbol]		P		<p>Minor Lithology: CARBONATE-BEARING SILTY CLAY occurs in Section 1, 127-150 cm and Section 2, 0-82 cm, where thin carbonate layers (mm to cm scale), dark gray (10YR 4/1, 5Y 4/1), comprise color bands.</p>
4	[Pattern]	4		[Symbol]		P		
5	[Pattern]	5		[Symbol]		P		
6	[Pattern]	6		[Symbol]		P	5Y 3/1	
7	[Pattern]	7		[Symbol]		P		
8	[Pattern]	8		[Symbol]		P		
9	[Pattern]	9		[Symbol]		M		



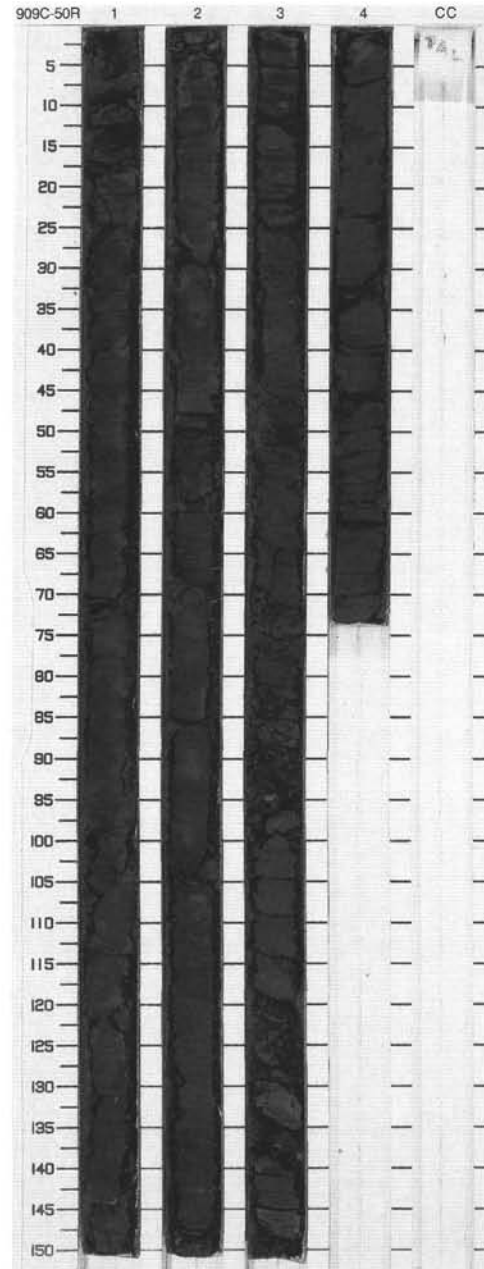
SITE 909 HOLE C CORE 49R

CORED 547.3 - 556.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}}		S P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), stiff and homogeneous, from Section 1 to Section 5, 50 cm. It is slightly bioturbated as shown by very faint changes in color and few pyrite-cemented burrows. The lower part of Section 5 is moderately bioturbated, containing <i>Planolites</i> and large, complex horizontal burrows of dark grayish brown (2.5Y 5/2) carbonate-rich sediment. More diffuse thin grayish brown or black bands also occur. Sections 6 to CC contain SILTY CLAY, black (2.5Y 2.5/1), fissile and laminated.</p> <p>General Description: Bedding in the entire core is dipping.</p>
2		2		}}		P		
3		3		}}		P		
4		4		}}		P		
5		5	Miocene	}}		P		
6		5		}}		P		
7		6		}}		S		
8		6		}}		P		
9		7		}}		P		
CC		CC		}}		P M		



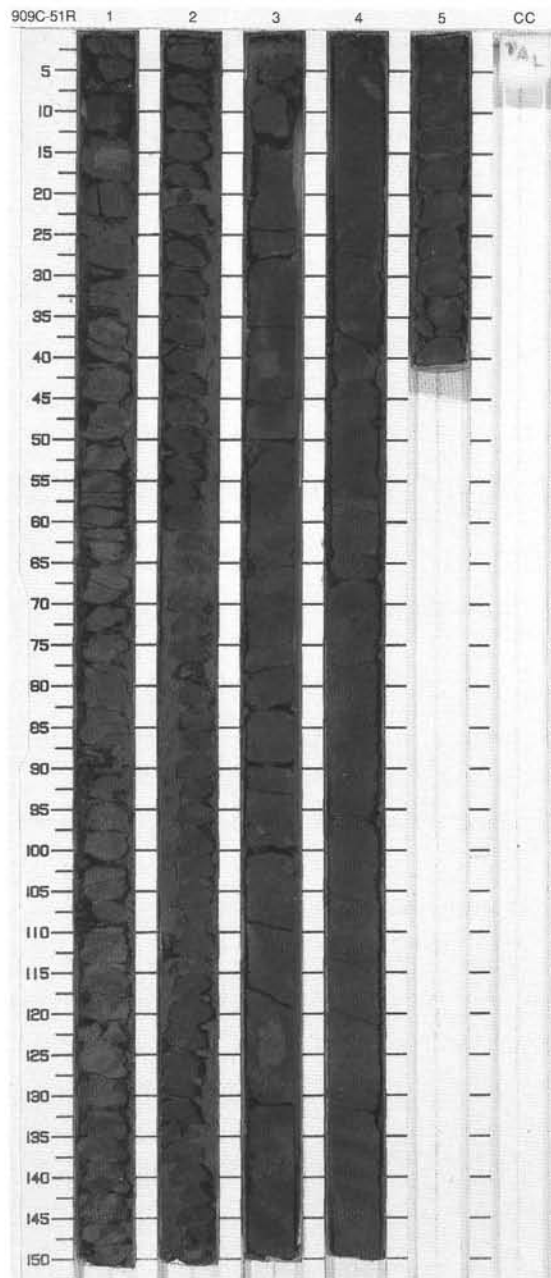
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	}		P	5Y 2.5/1	<p>SILTY CLAY</p> <p>Major Lithology: Very firm and fissile, black (5Y 2.5/1) SILTY CLAY. Mm-scale dark gray (5Y 4/1), parallel color bands occur throughout the core; in Section 3, the bands are up to 4 mm thick. There is no variation in texture or composition between the bands. In the bottom of Section 3, the bands are dipping.</p> <p>General Description: The sediment shows fissility which is parallel to the color bands.</p>
2	[Hatched pattern]	2						
3	[Hatched pattern]	3		}		P		
4	[Hatched pattern]	4						
5	[Hatched pattern]	4						



SITE 909 HOLE C CORE 51R

CORED 566.6 - 576.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Miocene			P		SILTY CLAY
1						S		Major Lithology: Very dark gray (5Y 3/1) SILTY CLAY occurs throughout core. Sediment has numerous small (1-5 mm) and some large (1-5 cm) burrows from Section 1, 0 cm to Section 3, 12 cm. Sediment becomes more massive and lacks burrows in Section 3, 12 cm to Section 4, 104 cm. Numerous burrows are again present from Section 4, 104 cm to Section CC, 46 cm.
2		2				P		
2						S		
3		3				P	5Y 3/1	Minor Lithology: Dark gray (5Y 4/1) CARBONATE CLAY occurs in Section 1, 64 cm, with ~45% inorganic calcite.
3						S		General Description: Core is broken into small drilling biscuits (2-5 cm) from top of core to Section 3, 12 cm; much larger drilling pieces (25-40 cm) from Section 3, 12 cm through Section 4; and again small biscuits in Section 5. <i>Teichichnus</i> (?) burrow occurs in Section 2, 22 cm.
4		4				P		
4						P		
5		5				P		
5		CC				M		



SITE 909 HOLE C CORE 52R

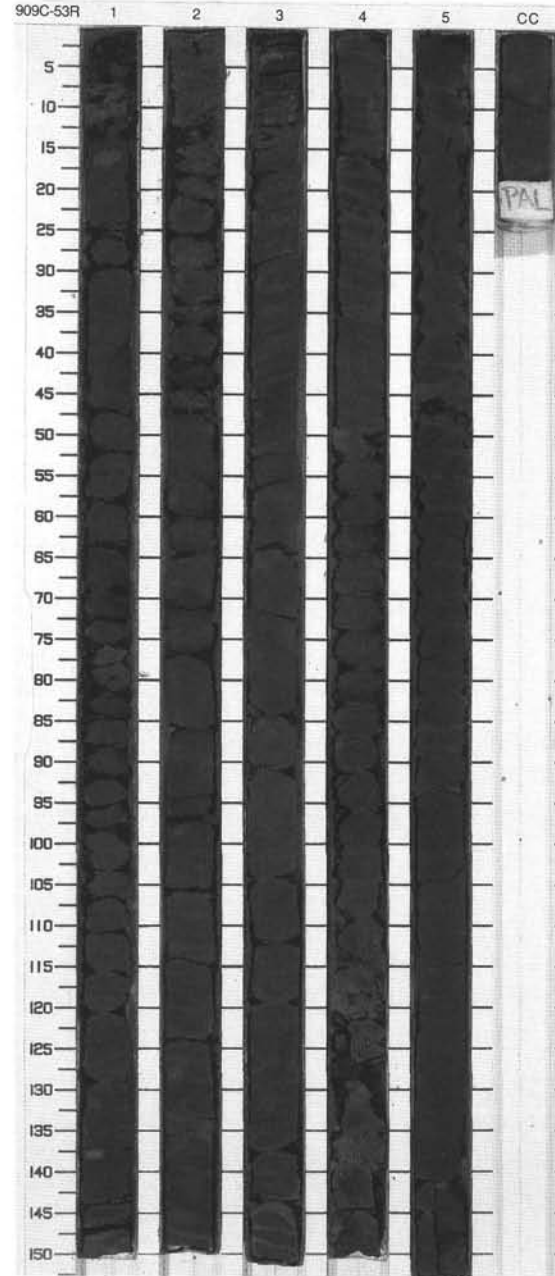
CORED 576.2 - 585.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	}}		S	5Y 3/1 To 5Y 2.5/2	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray to black (5Y 3/1 to 5Y 2.5/2), structureless. Bioturbation is very slight in Sections 1 to 3 where it is marked by mm-scale black patches and few thin pyrite concretions; small pits on the washed surface of split core may be remnants of burrows. Distinct burrows (<i>Planolites</i> and <i>Teichichnus</i>), filled with grayish brown carbonate clay, occur in Section 4 which is slightly more brown throughout.</p> <p>General Description: The core is moderately to strongly disturbed by coring; drilling biscuits comprise less than 50% of the core in Section 1.</p>
2	[Hatched pattern]	2		}}		P		
3	[Hatched pattern]	3		}}		S		
4	[Hatched pattern]	4		}}		P		
5	[Hatched pattern]	4		}}		I		
6	[Hatched pattern]	4		}}		MP		
7	[Hatched pattern]	4		}}				
8	[Hatched pattern]	4		}}				



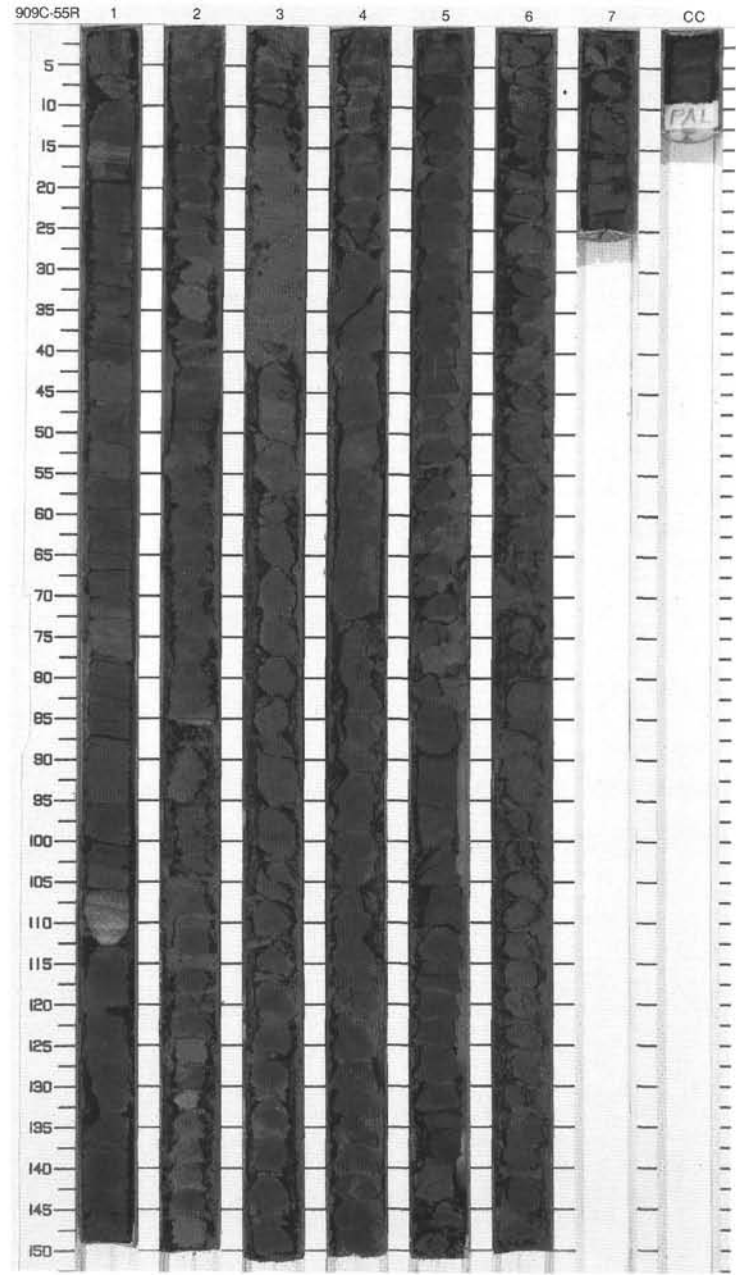
SITE 909 HOLE C CORE 53R CORED 585.8 - 595.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	Miocene	[Symbol]	[Symbol]	P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1), homogeneous, fissile. Faint, thin color banding occurs in Section 2, 0-97 cm and Section 4, 0-50 cm. Both fissility and color banding show dips of approximately 15 degrees. Mm-sized black and very dark gray burrows are common in Section 1 and rare in Section 2. Olive gray (5Y 4/2) burrows, including <i>Planolites</i> and <i>Zoophycos</i>, occur in Section 2, 97-150 cm; Section 3, 120-150 cm; Sections 4 and 5. Washed surface of split core has mm-size pits that are probably remnants of burrows. Black Fe-sulphide concretions, Ø <0.5 cm, are present throughout the core; a pyrite concretion, Ø 3 mm, occurs in Section 3, 54 cm. Quartz and feldspar are the main silt-size grains; inorganic calcite comprises up to 5% of the sediment.</p>
2	[Pattern]	2		[Symbol]	[Symbol]	S		
3	[Pattern]	3		[Symbol]	[Symbol]	P		
4	[Pattern]	3		[Symbol]	[Symbol]	P		
5	[Pattern]	4		[Symbol]	[Symbol]	S P		
6	[Pattern]	4		[Symbol]	[Symbol]	S P		
7	[Pattern]	5		[Symbol]	[Symbol]	P		
CC	[Pattern]	CC				M		



SITE 909 HOLE C CORE 55R CORED 605.1 - 614.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Miocene	(P) >	W	P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1) SILTY CLAY, slightly bioturbated. It displays a small range of composition, with ~20%–30% quartz, ~5% feldspar, and minor amounts (3%) of inorganic calcite, mica, and glauconite. Colorless, olive green, and brown glass shards occur in small amounts (3%).</p> <p>Minor Lithologies: Grayish brown (2.5Y 5/2) to dark grayish brown (2.5Y 4/2) CARBONATE CLAY and CARBONATE-BEARING CLAY occur in Sections 1 and 2 and in rare layers, 3–5 mm thick, throughout the core. These lithologies contain variable amounts of inorganic calcite (20%–90%) including a small percentage of silt-sized grains. Quartz and clay minerals are also present.</p>
1	[Symbol]	1		>	W	S		
1	[Symbol]	1		>	W	S		
2	[Symbol]	2		>	W	P		
2	[Symbol]	2		>	W	P		
3	[Symbol]	3		C	W	S		
3	[Symbol]	3		C	W	P		
3	[Symbol]	3		C	W	P		
4	[Symbol]	4		>	W	S		
4	[Symbol]	4		>	W	P		
5	[Symbol]	5		>	W	P		
6	[Symbol]	6		>	W	S		
7	[Symbol]	7		>	W	M		

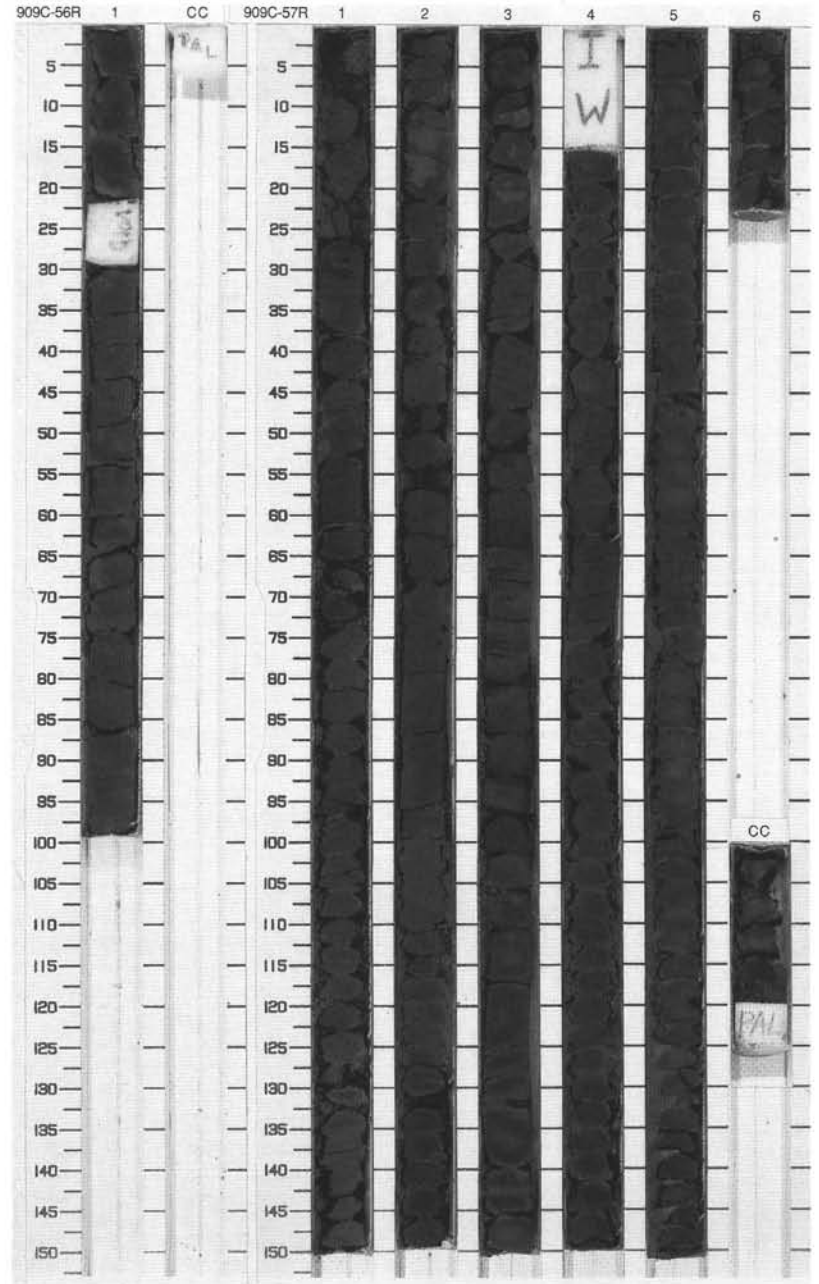


SITE 909 HOLE C CORE 56R CORED 614.8 - 624.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	VOID	1	Mio.	~		S M	5Y 3/1	SILTY CLAY Major Lithology: Massive SILTY CLAY, very dark gray (5Y 3/1), with slight bioturbation. General Description: Sediment is moderately fractured by drilling. 22-29 cm is void space.






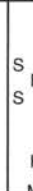
SITE 909 HOLE C CORE 57R CORED 624.4 - 634.1 mbsf

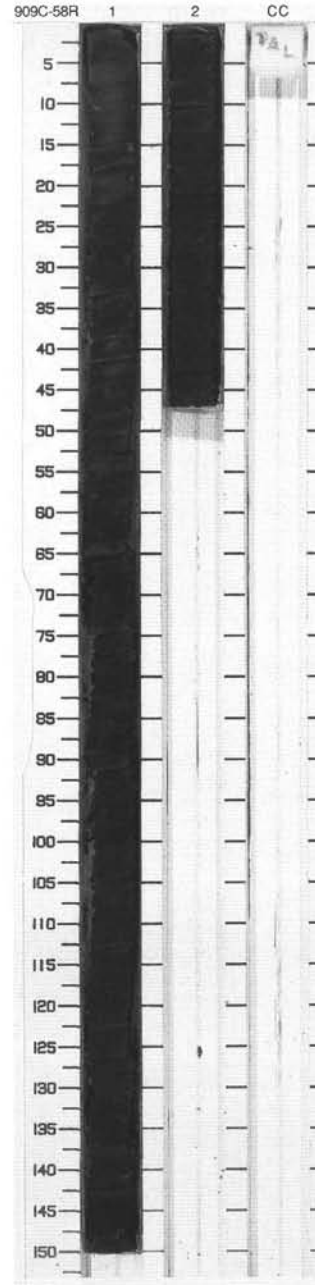
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Miocene	~		P	5Y 3/1	SILTY CLAY, CLAYEY SILT Major Lithology: SILTY CLAY and CLAYEY SILT, very dark gray (5Y 3/1), laminated (1-3 mm thick; apparent dip of 10°-15°). Both lithologies are slightly bioturbated; white silt-filled burrows are common.
2		2				P		
3		3				P		
4		4				I		
5		4				P		
6		5				P		
		6				P		
		CC				M		



SITE 909 HOLE C CORE 58R

CORED 634.1 - 643.7 mbsf

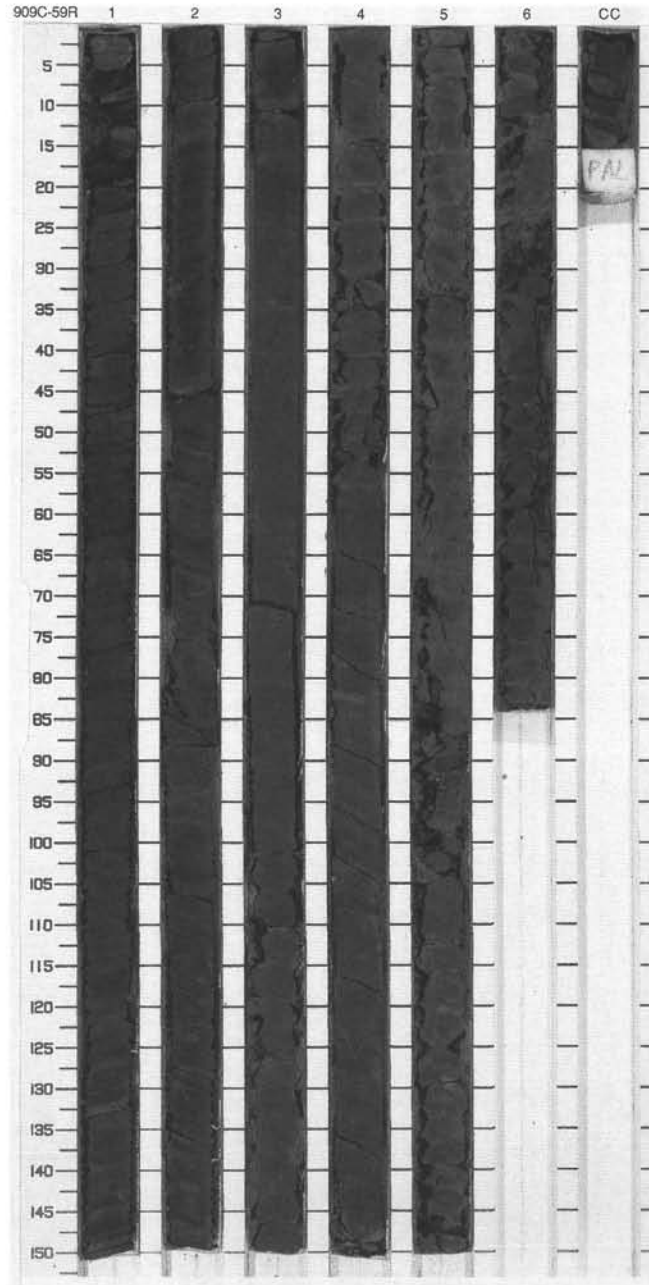
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1			S	10YR 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Faintly laminated CARBONATE CLAY, composed of alternating very dark gray (10YR 3/1) layers, 0.5–2 cm thick, and dark gray (10YR 4/1) layers, 0.1–0.5 cm thick. The dark and light layers contain 35% and 65% inorganic calcite respectively. Slight bioturbation occurs throughout the core.</p>
2		Miocene			P	To 10YR 4/1	
3					M		



SITE 909 HOLE C CORE 59R

CORED 643.7 - 653.4 mbsf

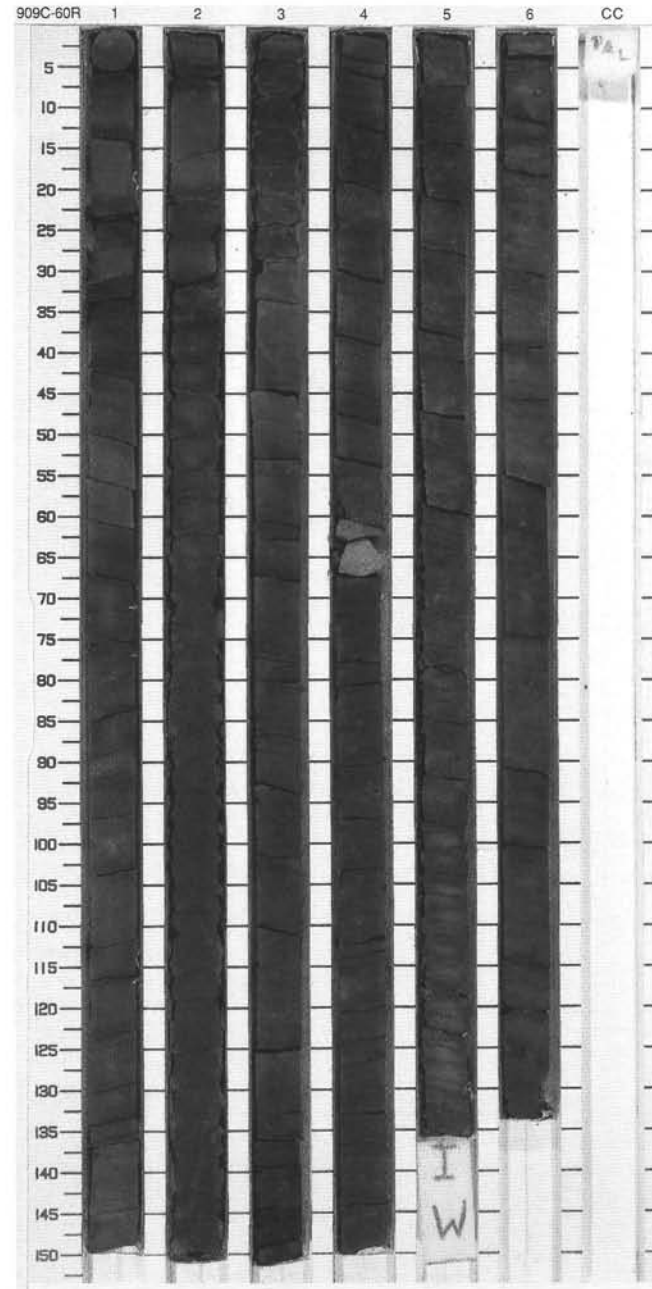
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				S	5Y 3/1 To 5Y 3/2	<p>CARBONATE CLAY, CARBONATE-BEARING SILTY CLAY and SILTY CLAY</p> <p>Major Lithologies: CARBONATE CLAY and CARBONATE-BEARING SILTY CLAY, in Section 1, 0 cm to Section 2, 44 cm, laminae of dark olive gray (5Y 3/2), very dark gray (5Y 3/1) and black (5Y 2.5/1). Darker laminae are 2-6 mm thick; lighter laminae are 1-3 mm thick. All laminae are continuous; no bifurcations were observed. Lighter laminae commonly have sharp tops and gradational bases. CARBONATE-BEARING SILTY CLAY and SILTY CLAY are present in Sections 2, 44 cm through Section CC, dark olive gray (5Y 3/2) and very dark gray (5Y 3/1). They lack laminae and show moderate to extensive bioturbation. Burrows in this section are grayish brown (2.5Y 5/2) carbonate clay. Pyrite rhombs are common in the burrows and disseminated throughout the sediment.</p>
2		2				S P		
3		3	Miocene			S	5Y 3/2	<p>Minor Lithology: CLAYEY SILT, dark olive gray (5Y 3/2) and very dark greenish gray (5GY 3/1), in Section 2, 44-114 cm.</p>
4		4				S P		
5		5				S	5Y 3/1	<p>General Description: Core contains boundary between laminated and moderately to heavily bioturbated sediment. Apparent dip of the sediments ranges from 0 to 25 degrees.</p>
6		6				S		
7		7				P		
8		8				P		
		CC				M		



SITE 909 HOLE C CORE 60R

CORED 653.4 - 663.0 mbsf

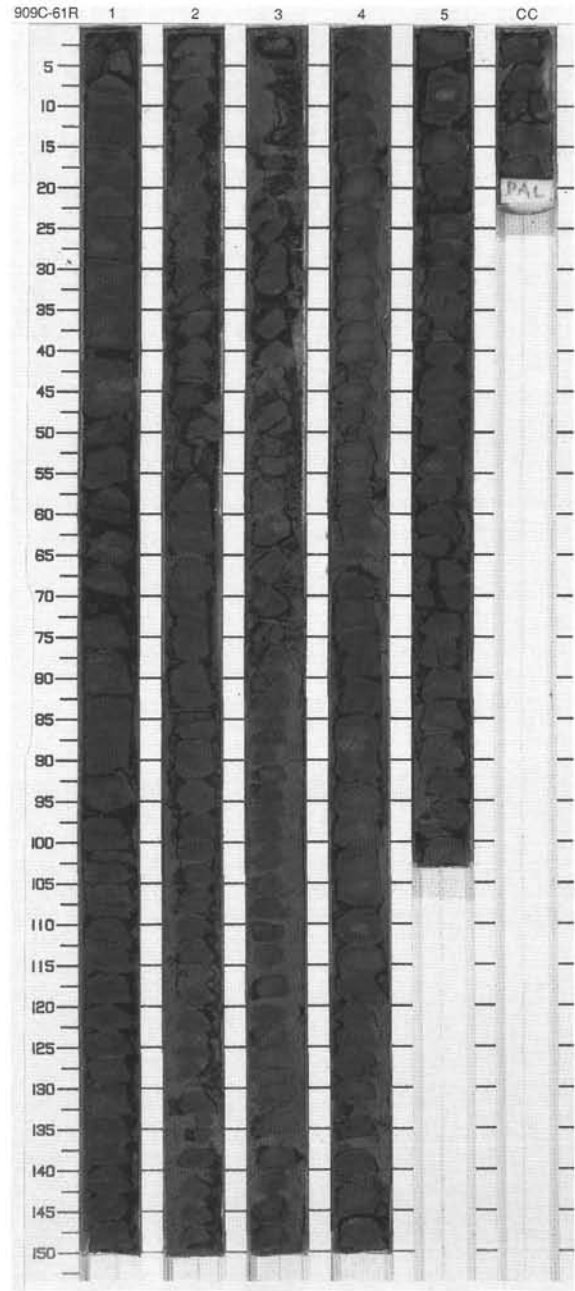
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	}}		P		<p>CARBONATE-BEARING SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: Very dark gray (5Y 3/1) CARBONATE-BEARING SILTY CLAY and CLAYEY SILT, very firm and mottled. CARBONATE-BEARING SILTY CLAY is variable in composition, with inorganic calcite (10%–25%) as the major non-clay mineral; quartz (2%–20%), feldspar (<1%–8%), and accessory minerals (3%–8%) also occur. CLAYEY SILT contains approximately 20% quartz, 10% feldspar, 10% accessory minerals, and 7% opaque grains.</p> <p>General Description: Bedding has apparent dips up to 15 degrees. Carbonate-rich sediments dominate the upper sections whereas coarse siliciclastics are more common in Section 6.</p>
			}}		S		
			P}}				
			P}}				
2		2	}}		P		
			}}				
			P}}				
3		3	}}		S		
			}}		S		
			P}}		P		
4		4	}}				
			Ⓟ				
5		5	}}		S		
			Ⓟ		P		
6		6	}}				
			Ⓟ				
7		7	}}		P		
			Ⓟ				
8		8	}}		P		
			Ⓟ				
			}}		S		
			}}		M		



SITE 909 HOLE C CORE 61R

CORED 663.0 - 672.7 mbsf

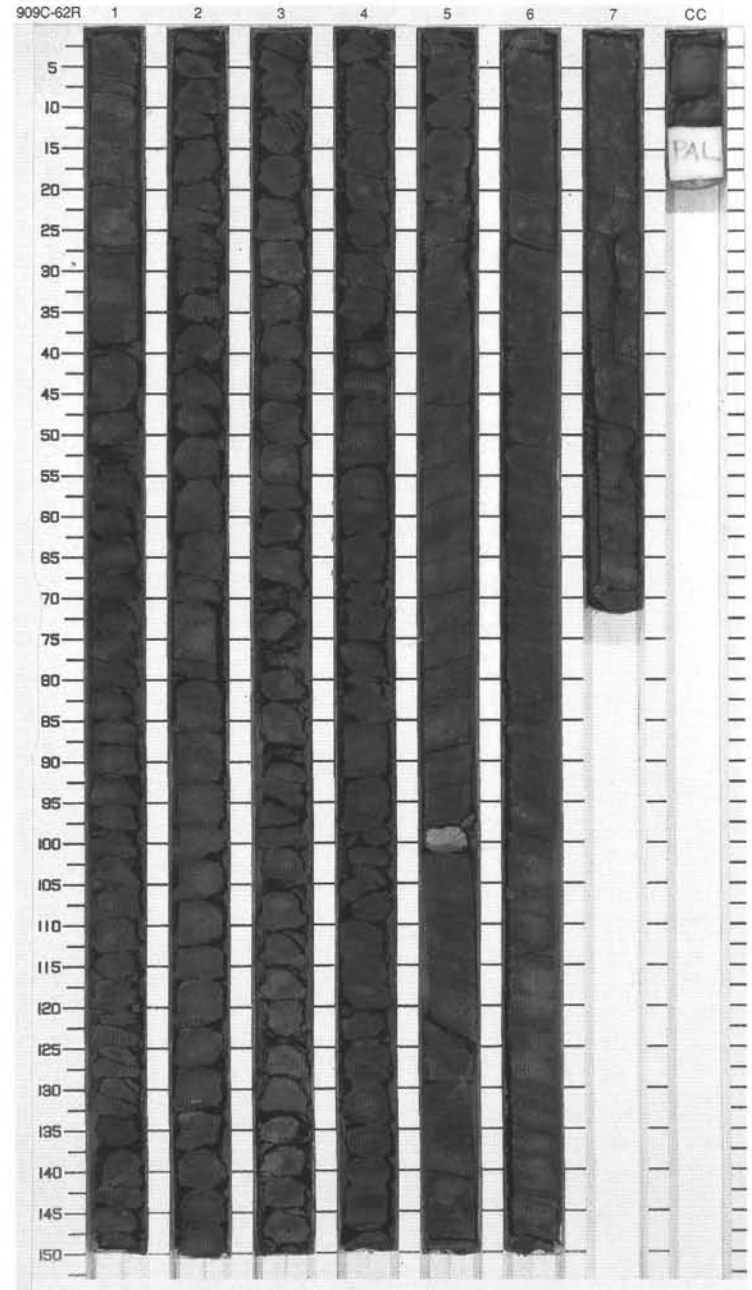
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]					P		<p>SILTY CLAY</p> <p>Major Lithology: Nearly uniform, very dark gray (5Y 3/1) SILTY CLAY appears laminated due to abundant subhorizontal burrows. Numerous pockets, mm size, of white silt are probably burrows.</p> <p>General Description: Entire core is disrupted into drilling biscuits (2-5 cm thick).</p>
2	[Hatched pattern]					P		
3	[Hatched pattern]					P		
4	[Hatched pattern]					S		
5	[Hatched pattern]					P		
6	[Hatched pattern]					P		
7	[Hatched pattern]					S		
						M		



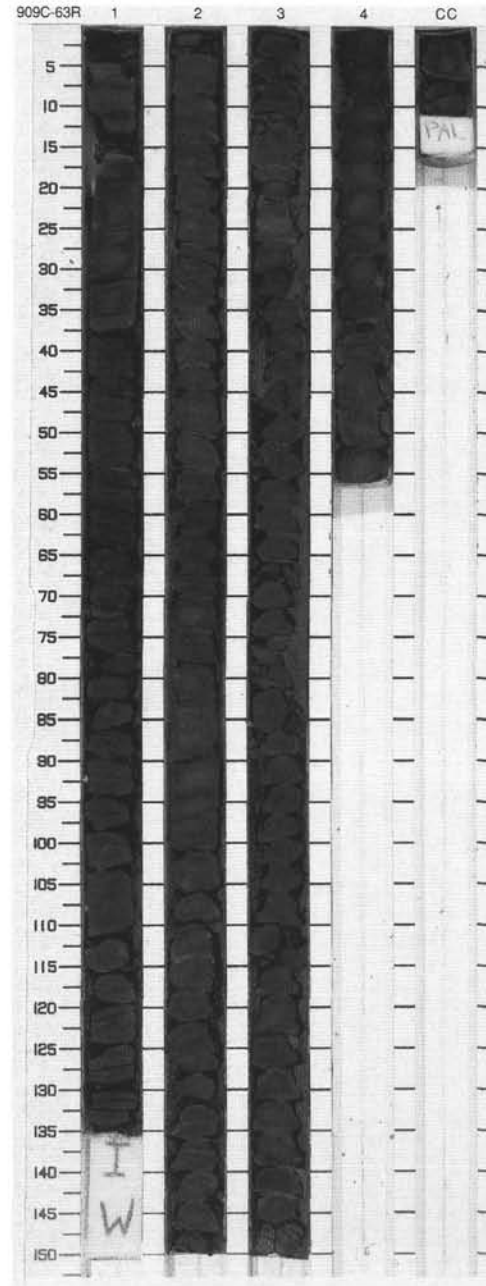
SITE 909 HOLE C CORE 62R

CORED 672.7 - 682.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Miocene	}}	+	S	P	<p>SILTY CLAY</p> <p>Major Lithology: Homogeneous, very stiff to consolidated SILTY CLAY, very dark gray (5Y 3/1). Bioturbation is slight to moderate and irregularly spaced. It includes numerous small (<1 mm) white specks, several pyrite-cemented burrows (up to 1 cm Ø) in Section 6, and few brown carbonate-filled patches (<i>Planolites</i>). Sections 5 to CC, which are little disturbed by coring, contain fissile SILTY CLAY that has an apparent dip of 20–30 degrees.</p> <p>Minor Lithology: A single bed of lithified CARBONATE CLAY, light brownish gray (2.5Y 6/2), occurs in Section 5, 98–100 cm. It has a lumpy shape and may be a large burrow.</p>
2		2		}}	+	P		
3		3		}}	+	S		
4		3		}}	+	P		
5		4		}}	+	P	5Y 3/1	
6		5		}}	+	P		
7		5		}}	+	P		
8		6	}}	+	S			
9		6	}}	+	P			
CC		7	}}	+	M			

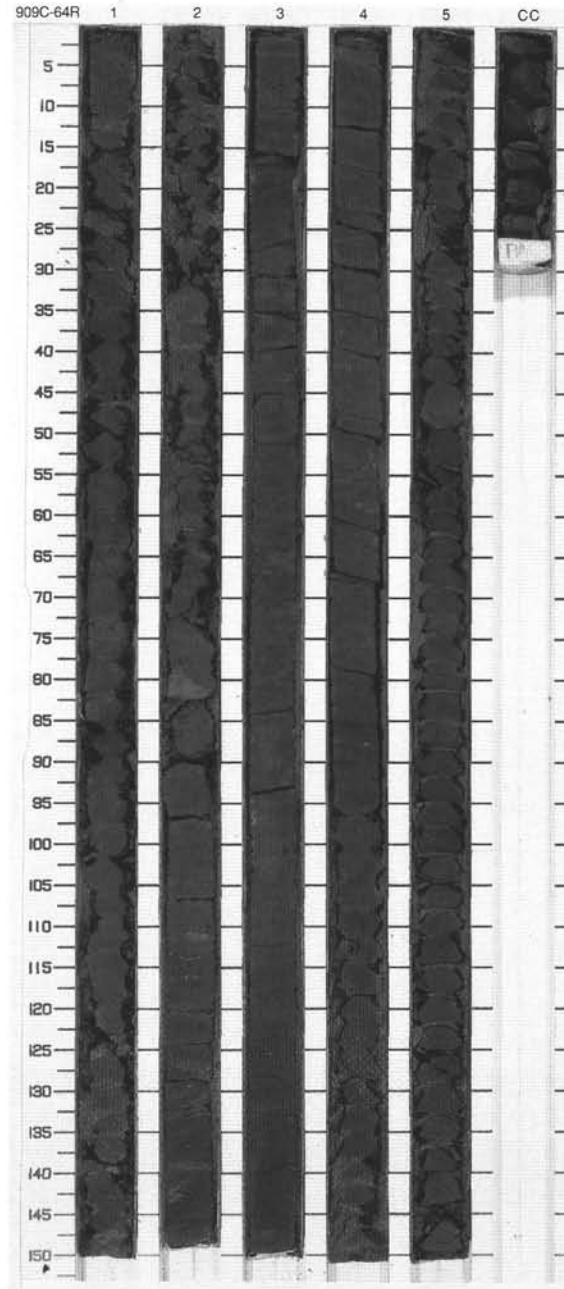


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	}}		S	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Very firm, nearly uniform SILTY CLAY, very dark gray (5Y 3/1), fissile with an apparent dip throughout the core. Mm-sized burrows are parallel or subparallel to lineation in all sections. Cm-sized burrows, including <i>Zoophycos</i>, are filled with dark grayish brown (10YR 3/2) SILTY CLAY in Section 2, 0-40 cm.</p> <p>General Description: Drilling biscuits occur throughout the core and are 2-5 cm in thickness, except in the tops of Sections 1 and 2 where biscuits are up to 8 cm in thickness.</p>
2	[Hatched pattern]	2		}}		P		
3	[Hatched pattern]	3		}}		S		
4	[Hatched pattern]	4		}}		P		
5	[Hatched pattern]	5		}}		M		

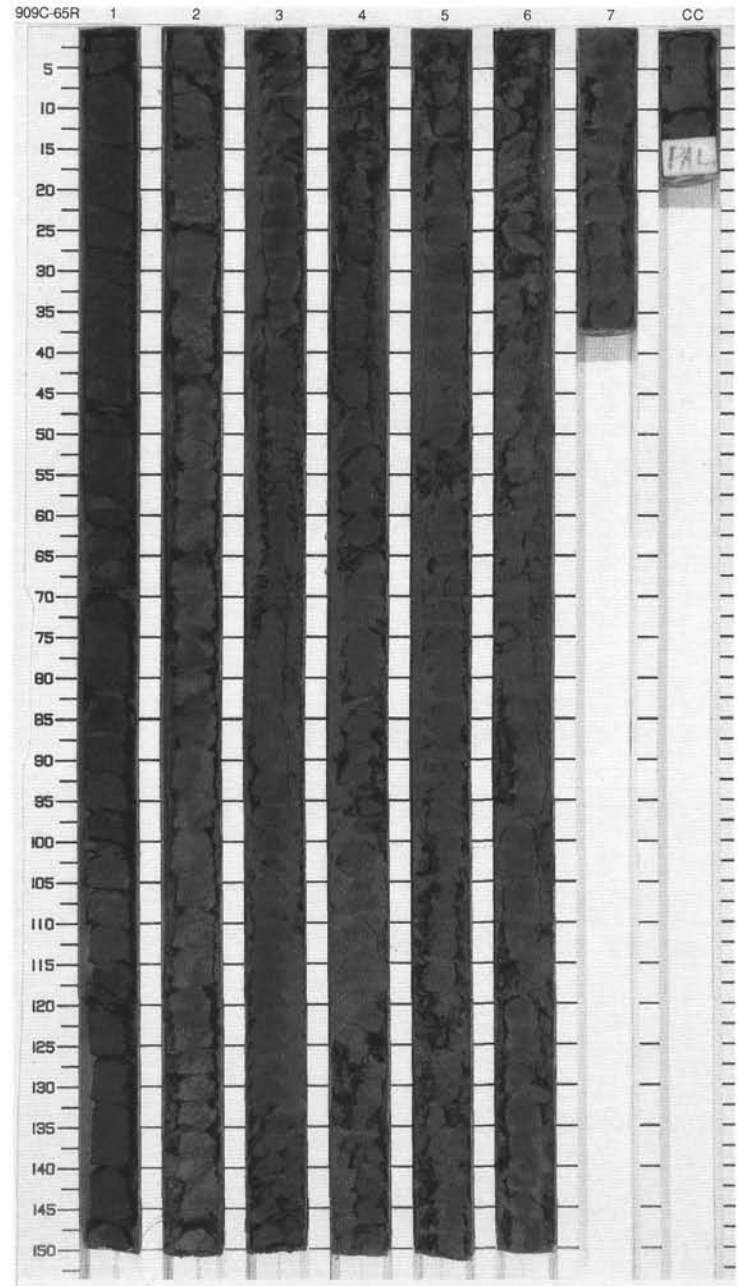


SITE 909 HOLE C CORE 64R CORED 692.0 - 701.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		}}	+	P		<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1), homogeneous SILTY CLAY with variable and irregularly spaced bioturbation features, including <i>Zoophycos</i>, <i>Chondrites</i>, carbonate-rich <i>Planolites</i>, and indistinct brownish gray patches and pyrite burrow fills.</p> <p>General Description: Bedding has a 10°-20° apparent dip throughout the core.</p>
2	[Hatched pattern]	2		}}	+	S		
3	[Hatched pattern]	3		}}	+	P		
4	[Hatched pattern]	3	Miocene	}}	+	S	5Y 3/1	
5	[Hatched pattern]	3		}}	+	P		
6	[Hatched pattern]	4		}}	+	S P		
7	[Hatched pattern]	5		}}	+	S		
8	[Hatched pattern]	5		}}	+	P		
9	[Hatched pattern]	5		}}	+	M		
10	[Hatched pattern]	CC			+			



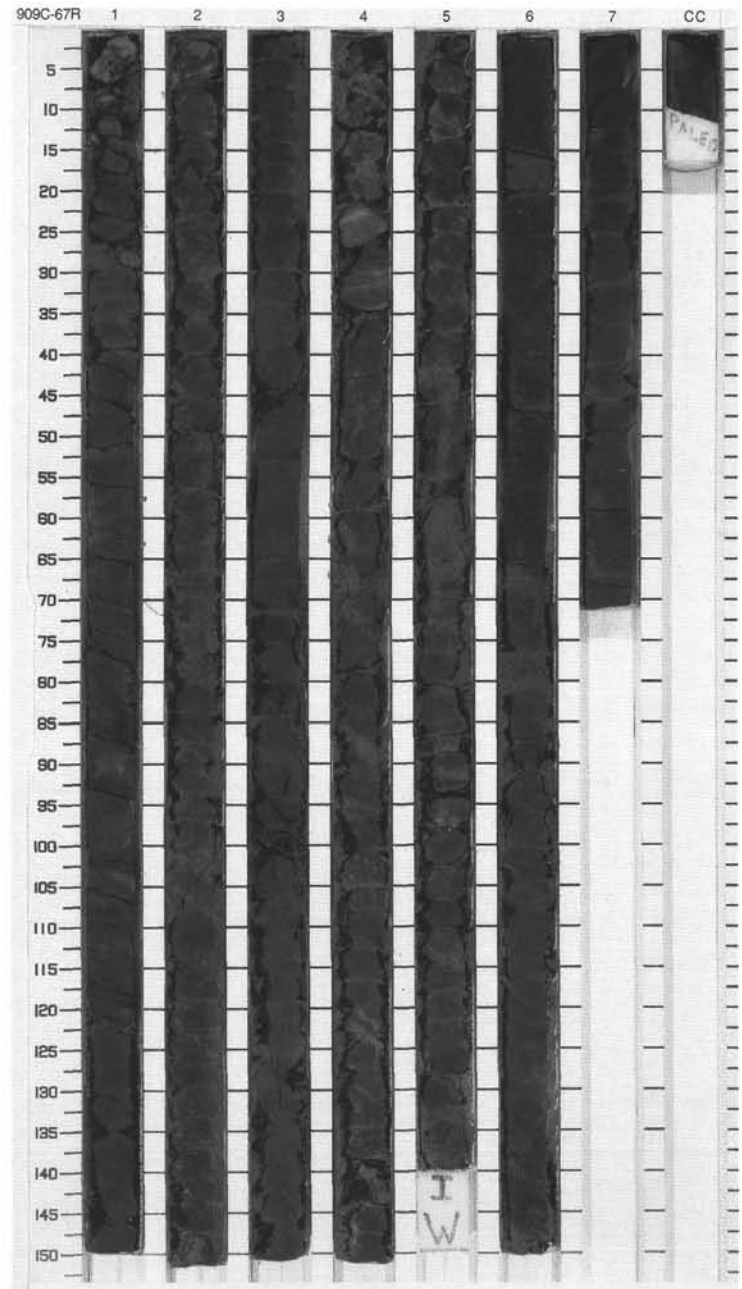
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	[Wavy structure]	[Vertical lines]	P S	5Y 3/1	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: SILTY CLAY to locally CLAYEY SILT, very dark gray (5Y 3/1), homogeneous and fissile; fissility dips up to 15 degrees. Thin color banding is seen in Section 4, 17-64 cm. Mm-size burrows, dark gray to olive gray (5Y 4/1, 5Y 5/2) are present throughout the core. Section 6, 142 cm through Section CC contain abundant olive gray burrows, including <i>Chondrites</i>. Black specks and very dark gray to black concretions of Fe sulphide, Ø <0.5 cm, are present.</p> <p>Minor Lithology: CARBONATE CLAY, olive gray (5Y 5/2) occurs as layers in Section 6, 18-19 and 25-27 cm, and as burrow fills. The layers are irregularly laminated and bioturbated.</p> <p>General Description: Section 5 is severely disrupted by drilling and contains more slurry than biscuit.</p>
2	[Hatched pattern]	2						
3	[Hatched pattern]	3						
4	[Hatched pattern]	4						
5	[Hatched pattern]	5						
6	[Hatched pattern]	6						
7	[Hatched pattern]	7						
CC	[Hatched pattern]	CC				P M		



SITE 909 HOLE C CORE 67R

CORED 720.8 - 730.4 mbsf

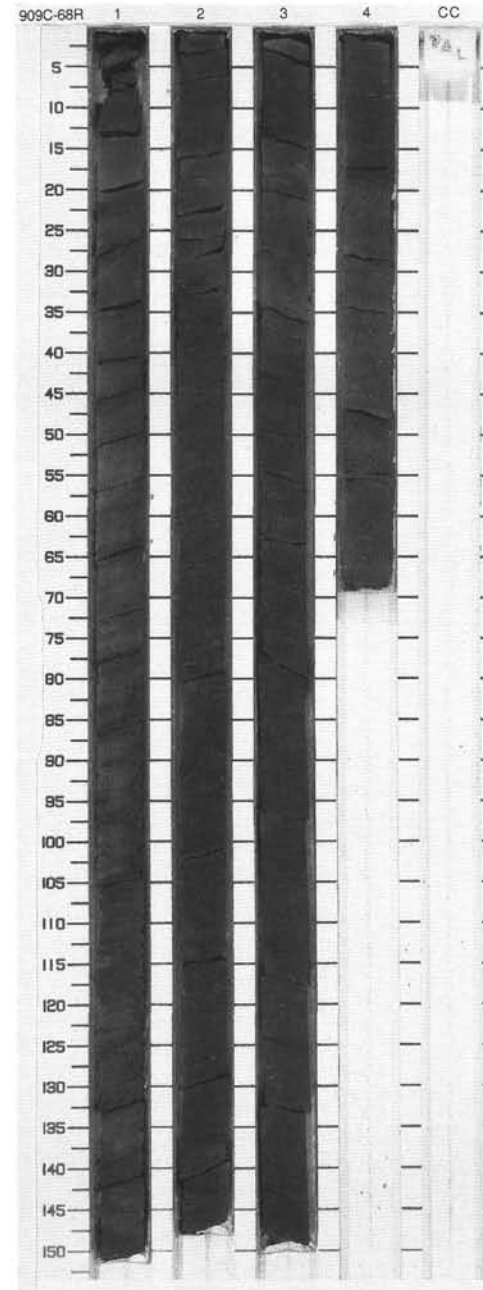
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		(P)	[Disturb symbol]	P		<p>CLAYEY SILT and SILTY CLAY</p> <p>Major Lithologies: CLAYEY SILT and SILTY CLAY, very dark gray (5Y 3/1, 10YR 3/1), moderately bioturbated. Faint laminations (mm scale) with mottled surfaces occur in Sections 4, 5, 6, 7, and CC.</p> <p>Minor Lithology: CARBONATE-BEARING CLAY, brown to dark grayish brown (10YR 5/3, 2.5Y 4/2), occurs in concretions or as burrow fills in Section 1, 0-7 cm and Section 4, 20-34 cm. It contains ~18% inorganic carbonate.</p>
2	[Hatched pattern]	2		(P)	[Disturb symbol]	S P		
3	[Hatched pattern]	3		(P)	[Disturb symbol]	P		
4	[Hatched pattern]	4		(P)	[Disturb symbol]	S P	5Y 3/1 To 10YR 3/1	
5	[Hatched pattern]	5	Miocene	(P)	[Disturb symbol]	P		
6	[Hatched pattern]	6		(P)	[Disturb symbol]	I		
7	[Hatched pattern]	7		(P)	[Disturb symbol]	P		
9	[Hatched pattern]	CC		(P)	[Disturb symbol]	M		



SITE 909 HOLE C CORE 68R CORED 730.4 - 740.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description		
1		1	Miocene	P	S	P	5Y 3/1	SILTY CLAY, CLAYEY SILT and CLAYEY MUD Major Lithologies: SILTY CLAY and CLAYEY SILT, very dark gray (5Y 3/1), with minor amounts of dark grayish brown (2.5Y 4/2) in burrows in Section 1, 0-150 cm. CLAYEY MUD, very dark gray (5Y 3/1) with minor thin bands of very dark greenish gray (darker than 5BG 4/1) in Sections 2 to 4. The mud clast shown in Section 3 is 5BG 4/1. Visibility of the bands is variable. Because of the extensive bioturbation, it is not clear if the color bands are produced or destroyed by bioturbation. Specific trace fossils are identified as follows: Section 1, 38 cm, <i>Zoophycus</i> ; Section 4, 56 cm, <i>Chondrites</i> . Burrows are filled with pyrite, fine quartz sand and coarse silt, and carbonate. The carbonate-filled burrows are abundant in Section 4, 46-70 cm, and are yellowish brown to dark yellowish brown (10YR 4.5/4).		
2		2		P			S		5BG 4/1 To 5Y 3/1	
3		3		P			S		5Y 3/1	
4		4		P			S		5BG 4/1 To 5Y 3/1	
5		4		P			S		5Y 3/1	
		CG		P					PM	5Y 3/1

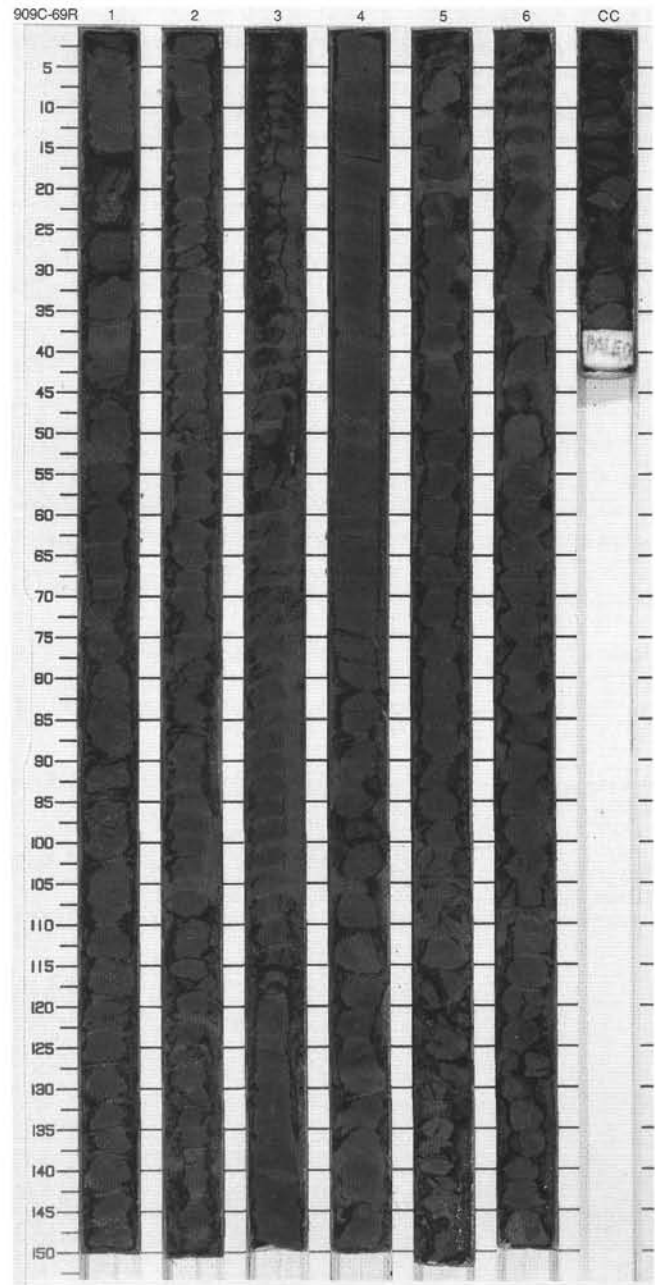
General Description:
Bedding and fractures in the core have an apparent dip of 20°-25°. Possible recrystallized shell fragments are present in Section 3, 19, 29, and 38 cm.



SITE 909 HOLE C CORE 69R

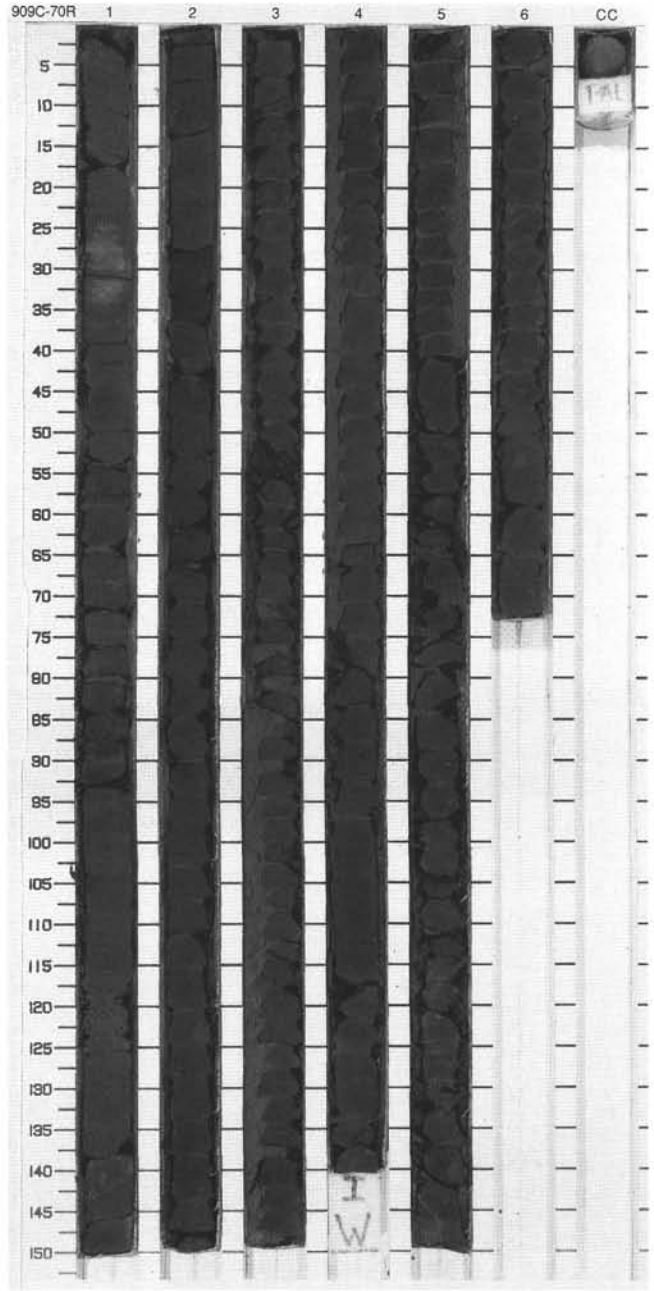
CORED 740.0 - 749.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	Miocene	(P)	[Symbol]	P	5Y 3/1 To 10YR 3/1	<p>CARBONATE-BEARING SILTY CLAY</p> <p>Major Lithology: CARBONATE-BEARING SILTY CLAY, very dark gray (5Y 3/1 and 10YR 3/1), firm, laminated, slightly to moderately bioturbated. Laminae have an apparent dip of up to 15°. Burrows filled with white silt and/or pyrite and are abundant. Pyrite concretions are common in Sections 1, 3, and 4. Inorganic calcite comprises up to 20% of the sediment.</p>
2	[Pattern]	2		(P)	[Symbol]	S		
3	[Pattern]	3		(P)	[Symbol]	P		
4	[Pattern]	4		(P)	[Symbol]	P		
5	[Pattern]	5		(P)	[Symbol]	S		
6	[Pattern]	6		(P)	[Symbol]	P		
7	[Pattern]	7		(P)	[Symbol]	P		
8	[Pattern]	8		(P)	[Symbol]	P		
9	[Pattern]	9		(P)	[Symbol]	P		
		CC				M		

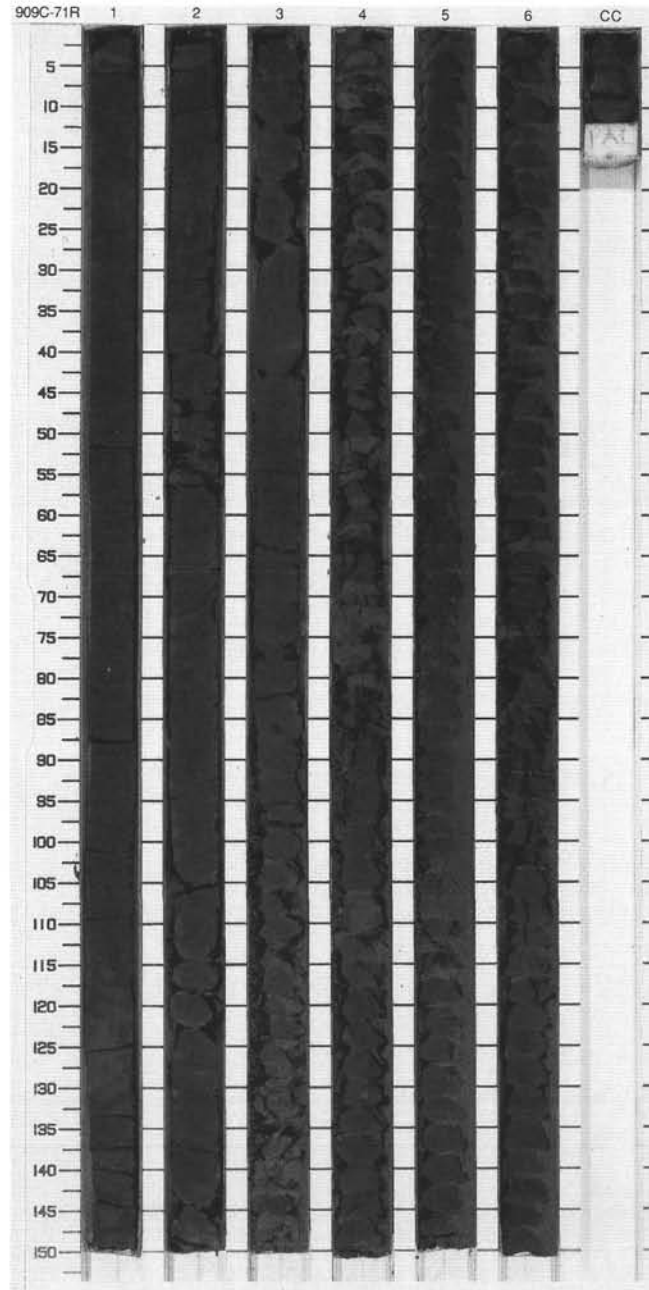


SITE 909 HOLE C CORE 70R
 CORED 749.6 - 759.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Miocene	[Symbol]	[Symbol]	S P	5Y 3/1 To 5BG 4/1	<p>CLAYEY SILT and SILTY CLAY</p> <p>Major Lithologies: Very dark gray (5Y 3/1) CLAYEY SILT interbedded with dark greenish gray (slightly darker than 5BG 4/1) SILTY CLAY. Beds are discontinuous and moderately bioturbated. CLAYEY SILT contains approximately 40% clay minerals, 35% quartz, and 15% feldspar. SILTY CLAY contains a similar suite of minerals but the clay content is approximately 60%. Mica, inorganic calcite, opaques, and accessory minerals occur in minor amounts (3%).</p> <p>Minor Lithologies: CARBONATE SILTY CLAY occurs in a brownish layer in Section 1, 68 cm. The carbonate (30%) is primarily fine silt. A slide made from the drilling slurry in Section 4 contains SILTY MUD. It consists primarily of clay (40%), quartz (35%), and feldspar (18%).</p> <p>General Description: Sediment is very firm and fissile with an apparent dip of 10°.</p>
2	[Symbol]	2		P	[Symbol]	P		
3	[Symbol]	3		P	[Symbol]	S		
4	[Symbol]	4		P	[Symbol]	P		
5	[Symbol]	5		P	[Symbol]	P		
6	[Symbol]	6		P	[Symbol]	S		
7	[Symbol]	7		P	[Symbol]	M		
8	[Symbol]	8		P	[Symbol]			

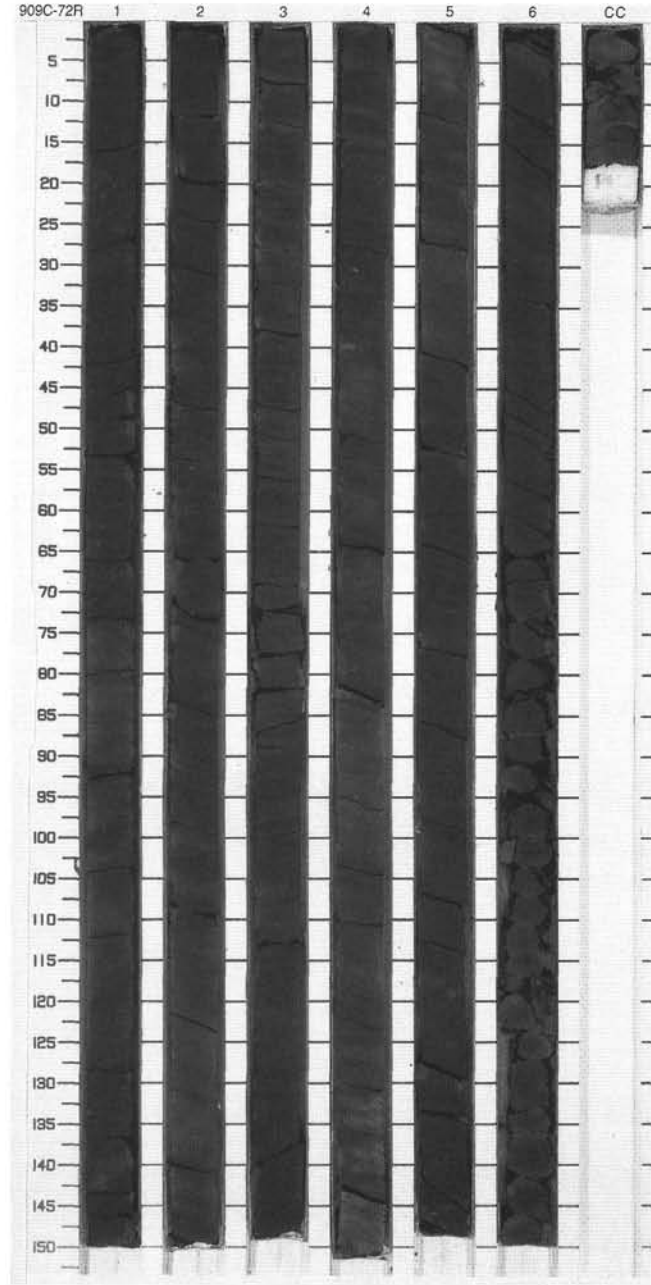


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	(P)	[Vertical lines]	P	5Y 3/1	<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: Very firm, very dark gray (5Y 3/1) SILTY CLAY and CLAYEY SILT occur throughout core. Faint, green and brown, thin color bands and small (1–10-mm) pyritized burrows are common. Numerous small pockets filled with white clay-sized material (zeolites?) are present throughout.</p> <p>General Description: Drilling disturbance is minimal in Section 1. Sediments are disrupted into large biscuits (5–20 cm size) in Section 2 through Section 3, 90 cm, and small biscuits (2–5 cm) in Section 3, 90 cm to Section CC. Apparent dip in Section 1 is ~25°.</p>
2	[Hatched pattern]	2		(P)	[Vertical lines]	P		
3	[Hatched pattern]	3		(P)	[Vertical lines]	P		
4	[Hatched pattern]	3		(P)	[Vertical lines]	S P		
5	[Hatched pattern]	4		(P)	[Vertical lines]	S P		
6	[Hatched pattern]	5		(P)	[Vertical lines]	S P		
7	[Hatched pattern]	5		(P)	[Vertical lines]	S P		
8	[Hatched pattern]	6		(P)	[Vertical lines]	P		
9	[Hatched pattern]	6		(P)	[Vertical lines]	P		
	[Hatched pattern]	CC			M			

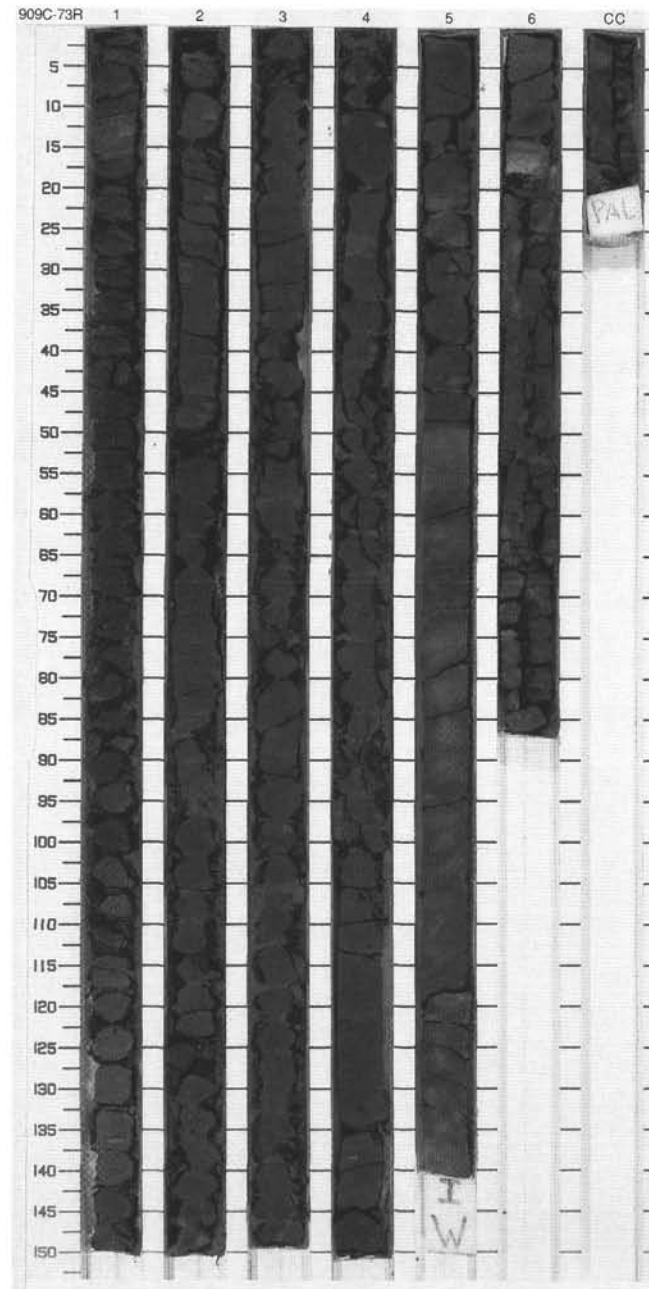


SITE 909 HOLE C CORE 72R CORED 769.0 - 778.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Miocene	[Symbol]		S P		<p>SILTY CLAY</p> <p>Major Lithology: Very stiff and massive SILTY CLAY is characterized by very dark gray (5Y 3/1) to dark greenish gray (5GY 4/1) and very dark grayish brown (5Y 3/2) color bands. These color bands, a few mm to 4 cm thick, are irregular and wavy; in places, they are due to bioturbation. Color banding is absent in Section 6 which is also much more disturbed. Burrows occur locally; some are rimmed or filled by quartz whereas others are pyritized.</p> <p>General Description: Bedding in Sections 1 to 5 have an apparent dip of about 20°. In the upper part of Section 6, fractures between drilling biscuits have a greater dip than the bedding.</p>
2	[Symbol]	2		P				
3	[Symbol]	3		S P				
4	[Symbol]	4		P			5Y 3/1 To 10YR 3/2	
5	[Symbol]	5		S P				
6	[Symbol]	6		P				
7	[Symbol]	7		S P				
8	[Symbol]	8		P				
9	[Symbol]	9		S				
	CC					M		

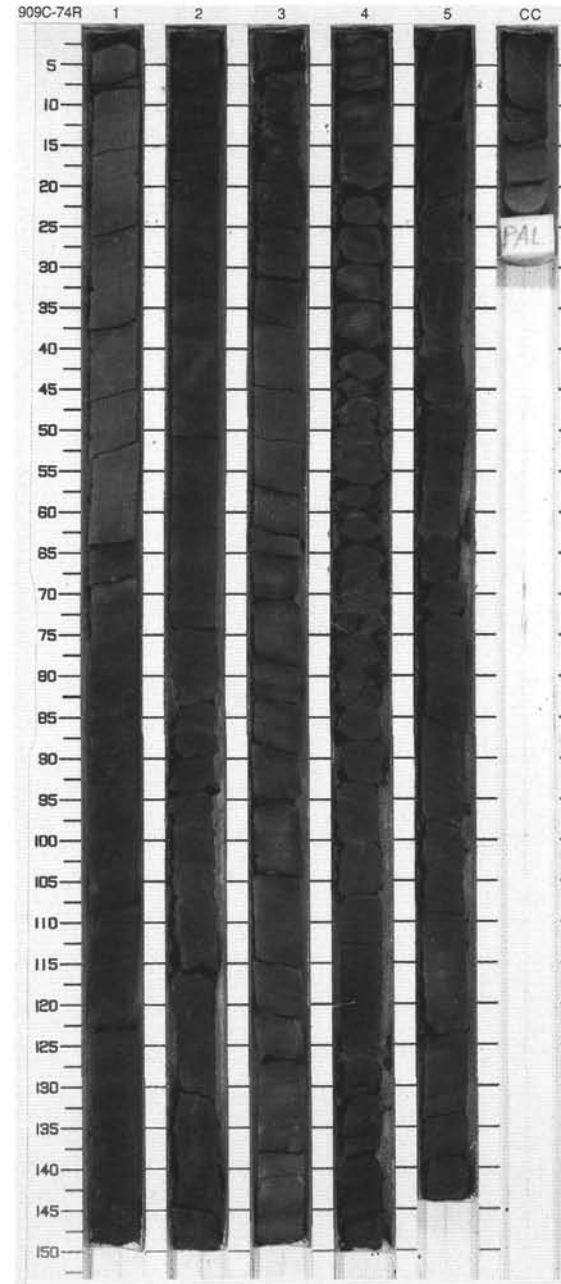


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		[Wavy lines]		S		<p>SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: SILTY CLAY and CLAYEY SILT, very dark gray (5Y 3/1), fissile (apparent dip of ~15 degrees) and bioturbated. Faint, thin color bands occur in Section 2, 53-78 cm; Section 4, 30-31 and 57-75 cm; Section 5, 0-128 cm. Black and dark gray (5Y 2.5/1, 5Y 4/1) burrows and Fe-sulphide concretions, both <1 mm in size, are present throughout.</p> <p>Minor Lithology: CARBONATE SILT, dark grayish brown (2.5Y 4/2), occurs in discontinuous laminae and burrows in Section 5, 132 cm to Section 6, 5 cm; Section 6, 18-23 cm. It also comprises a laminated and bioturbated layer in Section 6, 12-18 cm; bottom contact has been destroyed by drilling and top contact is abrupt. <i>Chondrites</i>-like burrows occur in this layer.</p>
2	[Hatched pattern]	2		[Wavy lines]		P		
3	[Hatched pattern]	3		[Wavy lines]		S		
4	[Hatched pattern]	3	Miocene	[Wavy lines]		P	5Y 3/1	
5	[Hatched pattern]	4		[Wavy lines]				
6	[Hatched pattern]	4		[Wavy lines]				
7	[Hatched pattern]	5		[Wavy lines]		S		
8	[Hatched pattern]	5		[Wavy lines]		P		
9	[Hatched pattern]	6		[Wavy lines]		S		
10	[Hatched pattern]	6		[Wavy lines]		P		
11	[Hatched pattern]	6		[Wavy lines]		M		
12	[Hatched pattern]	CC		[Wavy lines]				

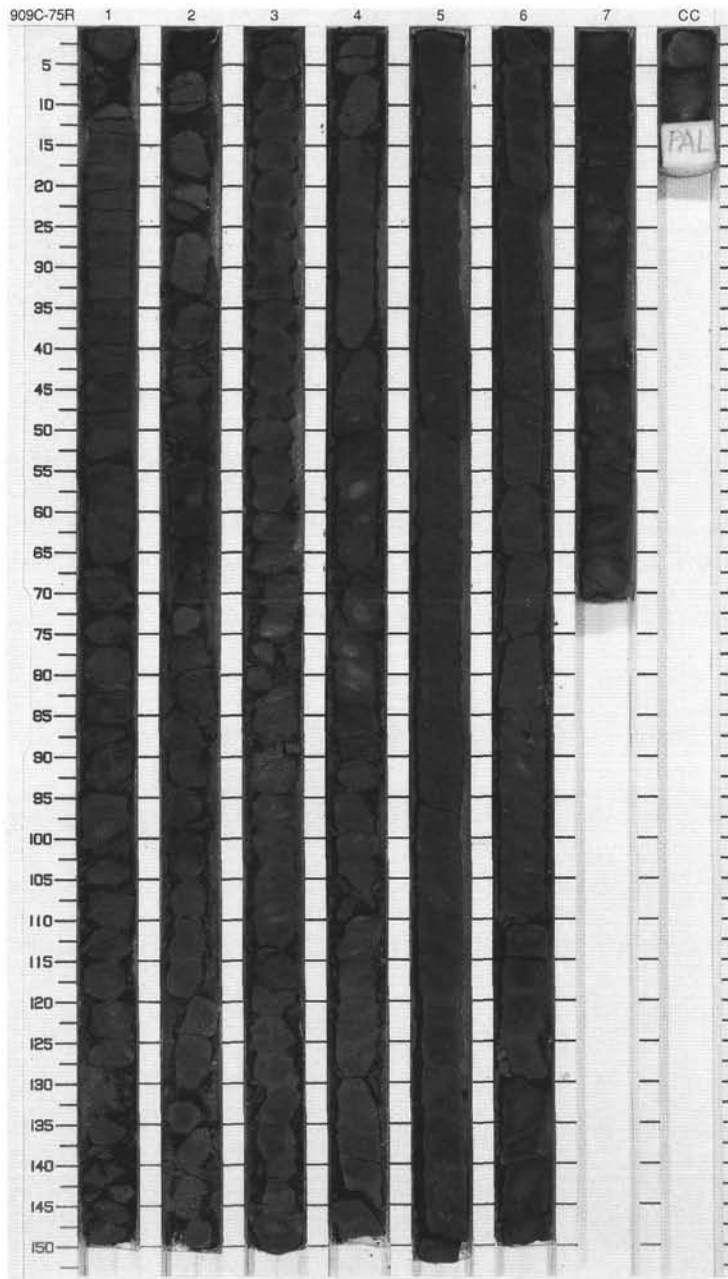


SITE 909 HOLE C CORE 74R CORED 788.3 - 798.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		}}		P		<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, firm and fissile, with an apparent dip of ~25 degrees. Faint, thin and discontinuous color bands alternate between very dark gray (5Y 3/1) and more brownish very dark gray (10YR 3/1) and more brownish very dark gray (10YR 3/1). Bioturbation is moderate. Disseminated pyrite occurs throughout the core, the highest concentration being in the lower part of Section 2 and in Section 3. Mm-sized, pyrite-cemented burrows are present throughout. Burrows, up to 0.5-cm size and filled with quartz silt, occur in Sections 2 to CC.</p> <p>General Description: The entire core, except Section 2, 25-70 cm, is disrupted into drilling biscuits 2-15 cm thick.</p>
2		2		}}		S		
3		3		}}		P		
4		3	Miocene	}}		S		
5		3		}}		P	5Y 3/1 To 10YR 3/1	
6		4		}}		P		
7		5		}}		S		
8		5		}}		P		
9		5		}}		M		
10		CC		}}		M		

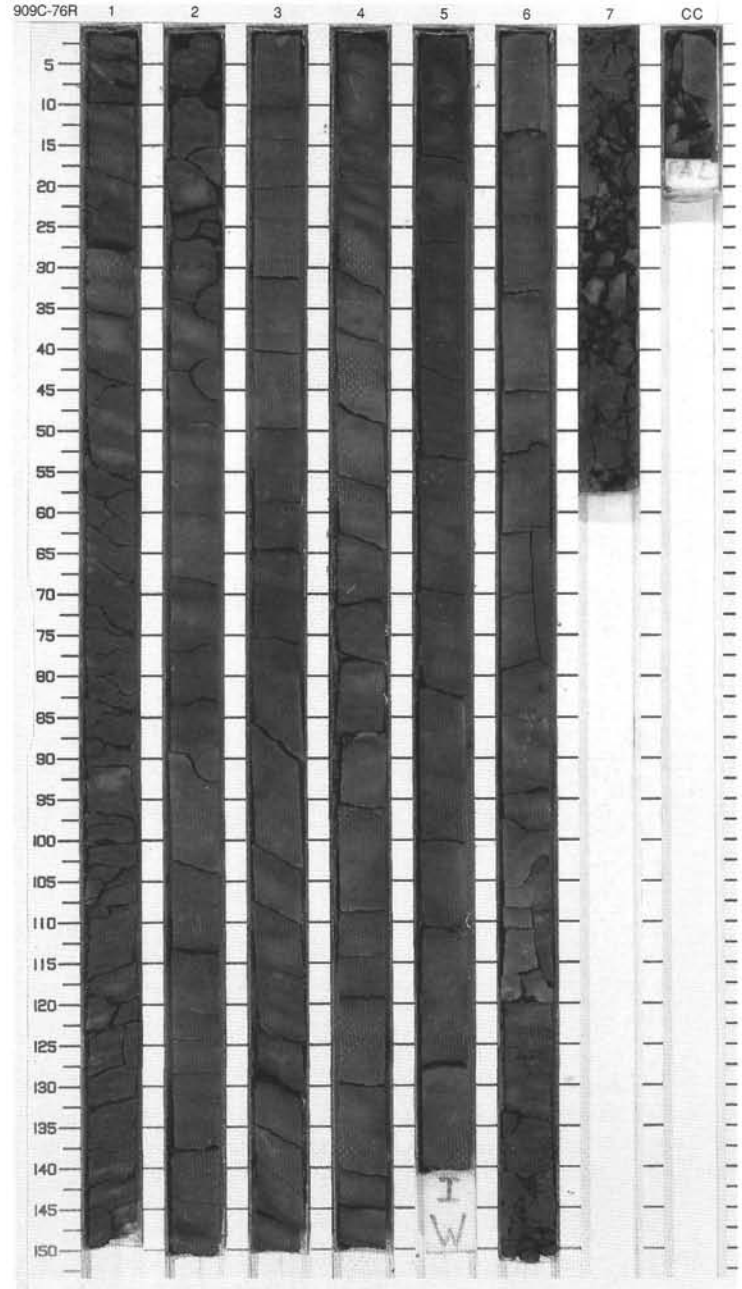


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1		~		P		<p>CLAYEY MUD, SILTY CLAY and CLAYEY SILT</p> <p>Major Lithologies: CLAYEY MUD, SILTY CLAY, and CLAYEY SILT, with moderate to heavy bioturbation and laminations (mm-cm scale). The laminations occur throughout the core with subhorizontal burrows (<i>Zoophycos</i>?) and are variably irregular, wavy, and discontinuous. Faint color banding of very dark gray (10YR 3/1, 5Y 3/1) and dark grayish brown (2.5Y 4/2) is present in the fine-grained beds. Burrows are commonly filled with pyrite. Section 3, 50-100 cm is extensively burrowed; <i>Zoophycos</i>, <i>Planolites</i>, and <i>Chondrites</i> are present.</p> <p>General Description: CLAYEY MUD in Sections 1 to 4 is slightly to highly fractured by drilling. Sections 5 to CC are undisturbed.</p>
2	[Dotted pattern]	2		~		P		
3	[Dotted pattern]	3		~		P		
4	[Dotted pattern]	3		~		P		
5	[Dotted pattern]	4	Miocene	~		S	5Y 3/1 To 10YR 3/1	
6	[Dotted pattern]	4		~		P		
7	[Dotted pattern]	5		~		S		
8	[Dotted pattern]	6		~		P		
9	[Dotted pattern]	6		~		S		
10	[Dotted pattern]	7		~		P		
11	[Dotted pattern]	7		~		S		
12	[Dotted pattern]	CC		~		M		



SITE 909 HOLE C CORE 76R CORED 807.6 - 817.3 mbsf

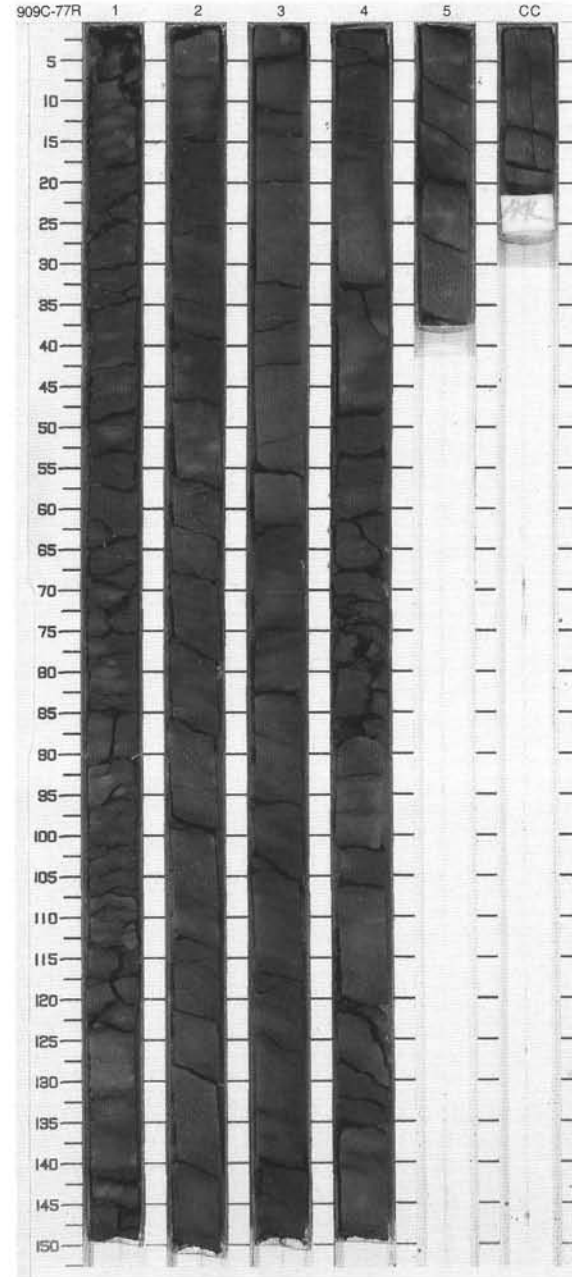
Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	P	[Symbol]	S	P	<p>SILTY CLAY and CLAYEY MUD</p> <p>Major Lithologies: SILTY CLAY, very dark gray (5Y 3/1 and 10Y 3/1), and CLAYEY MUD, very dark gray (5Y 3/1), are relatively homogeneous. In Section 4, 0-65 cm, grayish brown (2.5Y 4/2) burrows are common and form an irregular layering. Burrows and clasts of fine quartz sand and coarse silt and pyrite are common in CLAYEY MUD.</p> <p>Minor Lithology: CARBONATE-BEARING CLAYEY MUD, grayish brown (2.5Y 4/2), occurs in some burrows in Section 5, 76-141 cm.</p> <p>General Description: There are distinct variations in abundance of quartz-filled burrows, which change over length scales of 30 to 100 cm. A possible carbonate concretion is present in Section 7, 21 cm. Maximum apparent dip on fractured surfaces is up to 45° but averages around 25°.</p>
2	[Pattern]	2	P	[Symbol]	P	5Y 3/1	
3	[Pattern]	3	P	[Symbol]	S	P	
4	[Pattern]	4	P	[Symbol]	S	P	
5	[Pattern]	4	P	[Symbol]	S	5Y 3/1 To 2.5Y 4/2	
6	[Pattern]	5	P	[Symbol]	S	5Y 3/1	
7	[Pattern]	5	P	[Symbol]	S	5Y 3/1	
8	[Pattern]	6	P	[Symbol]	S	5Y 3/1 To 10Y 3/1	
9	[Pattern]	7	P	[Symbol]	S	5Y 3/1	
CC	[Pattern]	CC	M	[Symbol]	M		



SITE 909 HOLE C CORE 77R

CORED 817.3 - 827.0 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	⋈	X	P	5Y 3/1	<p>SILTY CLAY and CLAYEY MUD</p> <p>Major Lithologies: Interbedded very dark gray (5Y 3/1) SILTY CLAY and CLAYEY MUD. Slight color and textural variations delineate beds. Bioturbation is pervasive, and all contacts are gradational. Burrows are commonly pyritized but some are filled with quartz-dominated silt and sand. SILTY CLAY contains approximately 20% quartz, 8% feldspar, 6% accessory minerals, and 4% inorganic calcite. CLAYEY MUD contains approximately 26% quartz, 7% inorganic calcite, and 4% feldspar.</p> <p>General Description: Beds have an apparent dip of up to 15°.</p>
2	[Symbol]	2	⋈		P		
3	[Symbol]	3	⋈		S		
4	[Symbol]	3	⋈		P		
5	[Symbol]	3	⋈		P		
6	[Symbol]	4	⋈		P		
7	[Symbol]	4	⋈		P		
8	[Symbol]	4	⋈		P		
9	[Symbol]	5	⋈		S		
10	[Symbol]	CC	⋈		M		

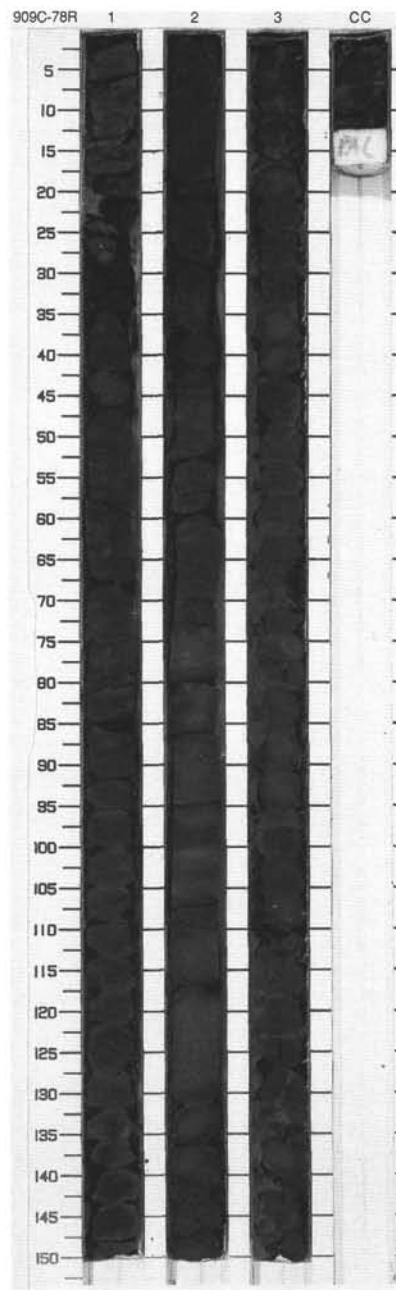


SITE 909 HOLE C CORE 78R

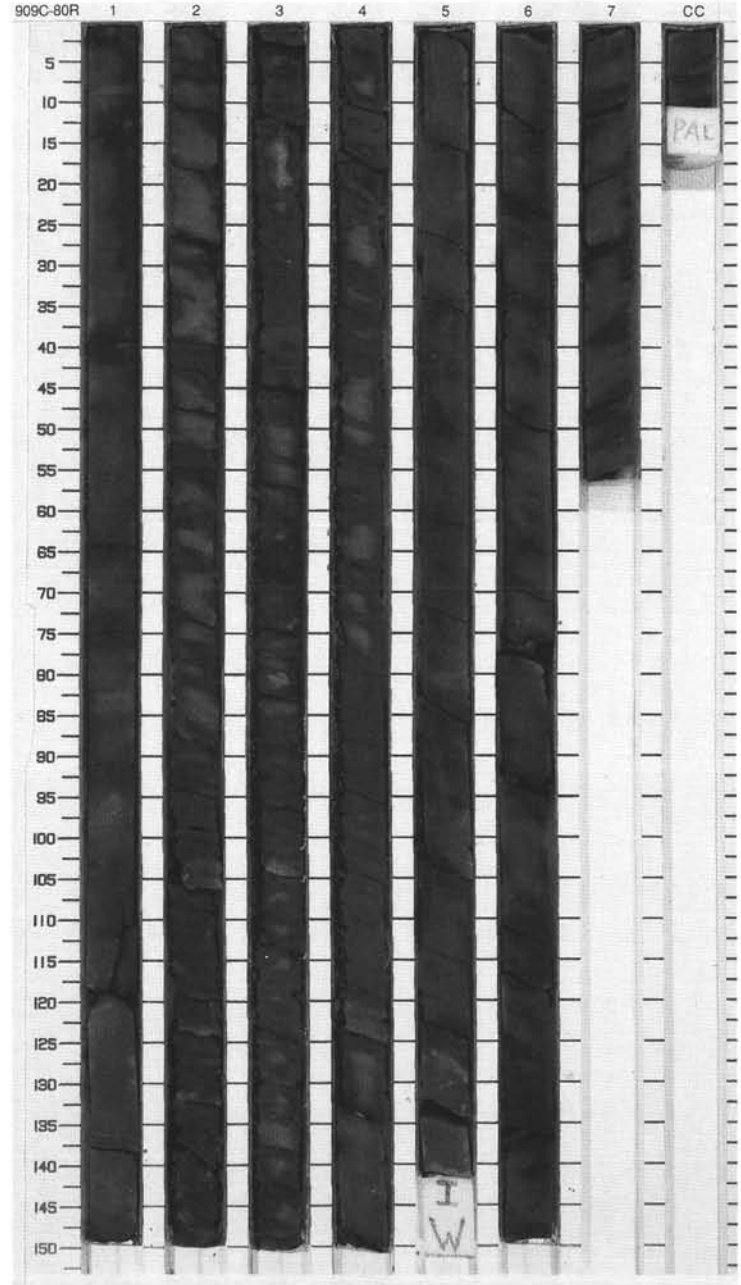
CORED 827.0 - 836.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	[Wavy pattern]	W	S	5Y 3/1 To 10Y 3/1	SILTY CLAY Major Lithology: SILTY CLAY, very dark gray (10Y 3/1, 5Y 3/1), firm, moderately bioturbated. Laminae (1-3 mm thick) occur throughout, and white (quartz?) silt-filled burrows and pyritized burrows are common.
2	[Hatched pattern]	2		[Wavy pattern]	P	P		
3	[Hatched pattern]	3		[Wavy pattern]	P	S		
4	[Hatched pattern]	CC		[Wavy pattern]		M		

909C 79R NO RECOVERY

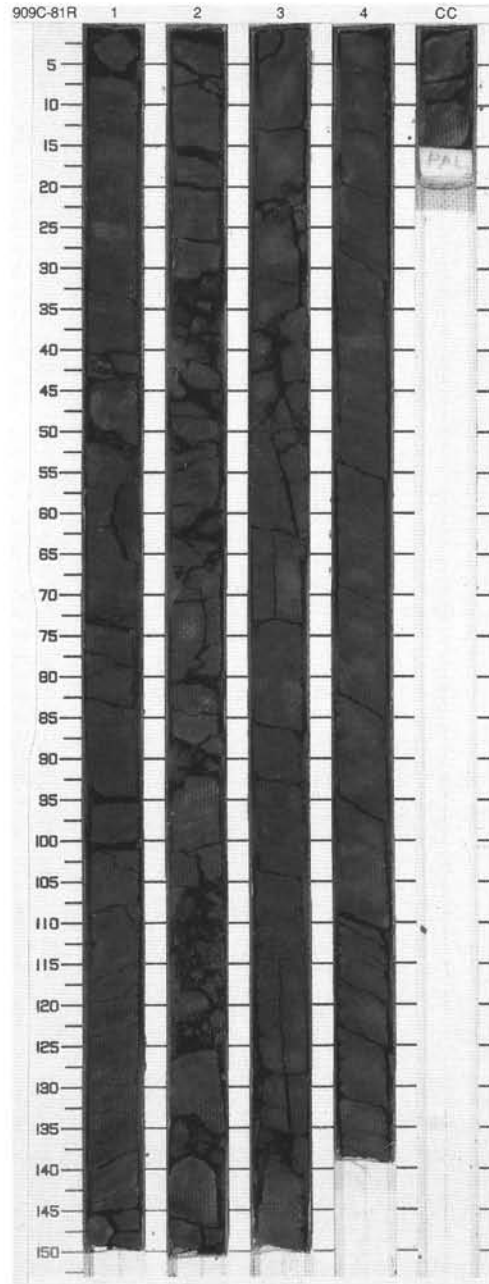


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	Miocene	[Structure]	[Disturb]	P		<p>CLAYEY SILT, SILTY CLAY and CLAY</p> <p>Major Lithologies: CLAYEY SILT, SILTY CLAY and CLAY, very dark gray (5Y 3/1), homogeneous showing faint color bands. CLAY is more fissile and fractured by drilling than the coarser lithologies; fissility has an apparent dip of 10-15 degrees. Section 1, 136-137 cm has a gray, silty lamina, 2 mm in thickness; Sections 5 to CC appear to be faintly laminated. Dark gray and gray (5Y 4/1, 5Y 5/1) silty burrows, mm size, are common and include <i>Chondrites</i>-like burrows. Black pockets of Fe sulfide, Ø <2 mm, and pyritic concretions, Ø <8 mm, are scattered throughout the core. Agglutinated forams are rare in the CLAYEY SILT and SILTY CLAY.</p>
2	[Pattern]	2		P				
3	[Pattern]	3		P				
4	[Pattern]	4		S				
5	[Pattern]	5		P				
6	[Pattern]	6		P				
7	[Pattern]	7		P				
CC	[Pattern]	CC				M		<p>Minor Lithology: CARBONATE CLAY, dark grayish-brown (2.5Y 4/2), in Section 4, 55-57 cm is irregularly laminated and bioturbated.</p>



SITE 909 HOLE C CORE 81R CORED 855.9 - 865.5 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	}}		S P	5Y 3/1 To 10YR 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1, 10 YR 3/1), homogeneous showing very faint wavy color bands. Bioturbation structures, predominantly pyrite-cemented burrows and clean coarse quartz pods, are relatively numerous but very thin and parallel the bedding. They are less numerous in Section 2, 30-140 cm, which is slightly more clayey and more disturbed by coring.</p>
2	[Hatched pattern]	2	}}		P		
3	[Hatched pattern]	3	}}		S		
4	[Hatched pattern]	3	}}		P		
5	[Hatched pattern]	4	}}		S P		
6	[Hatched pattern]	CC	}}		M		

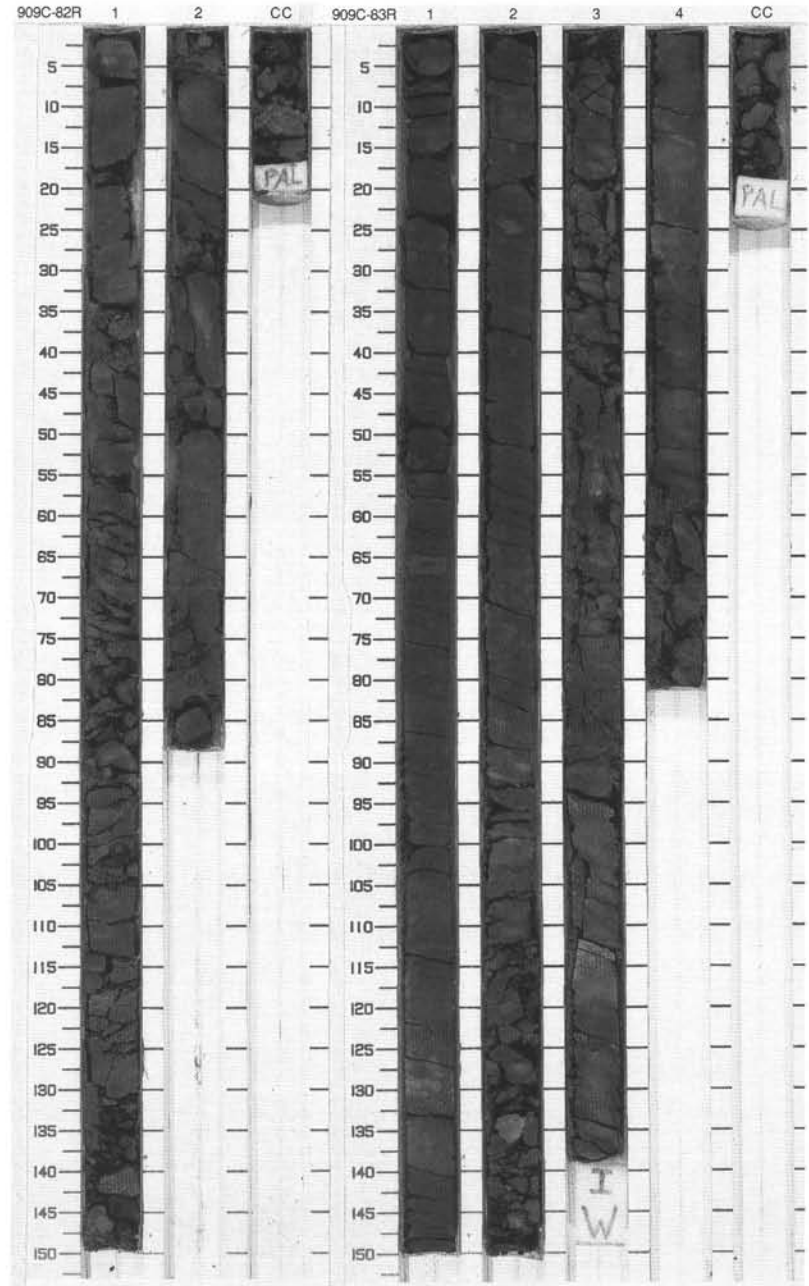


SITE 909 HOLE C CORE 82R CORED 865.5 - 875.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Miocene	[Symbol]	[Symbol]	P	5Y 3/1	<p>SILTY CLAY and CLAYEY CARBONATE</p> <p>Major Lithologies: Very firm, very dark gray (5Y 3/1) and slightly fissile SILTY CLAY. Bioturbation varies throughout the core. Concentrations of cm-sized burrows, filled with dark grayish brown (2.5Y 3/2) CLAYEY CARBONATE, are found in Section 1, 0-40, 80-100, and 140-145 cm and in Section 2, 0-20 cm. Mm-sized burrows, pods filled with silt-sized quartz and agglutinated foraminifers are present throughout.</p>
1	[Symbol]	1		[Symbol]	[Symbol]	S		
2	[Symbol]	2		[Symbol]	[Symbol]	S P		
2	[Symbol]	2		[Symbol]	[Symbol]	M		
		CC						

SITE 909 HOLE C CORE 83R CORED 875.1 - 884.8 mbsf

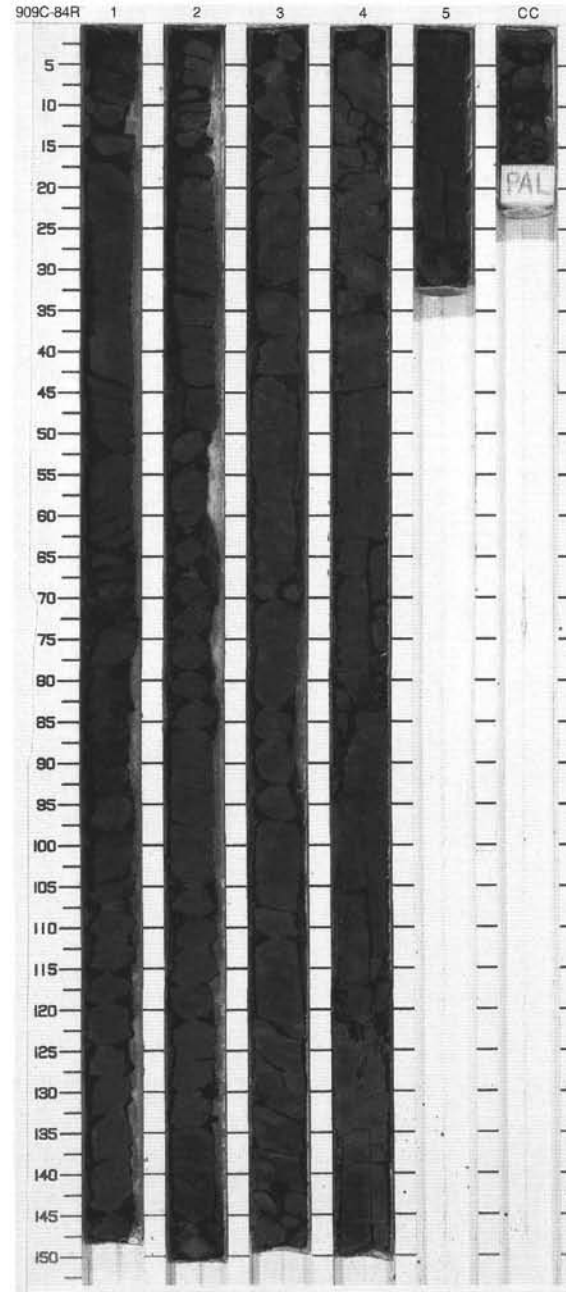
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Miocene	[Symbol]	[Symbol]	P	5Y 3/1	<p>SILTY CLAY and CLAY</p> <p>Major Lithologies: Very dark gray (5Y 3/1) SILTY CLAY occurs in Section 1, 0 cm to Section 2, 110 cm and in Section 3, 90 cm to Section CC. It is disrupted into drilling biscuits ranging from 2-40 cm, has thin color bands (1-5-mm-thick), small sediment-filled burrows (1-5 cm by 1-5 mm) and agglutinated benthic foraminifers. Massive, very dark gray (5Y 3/1) CLAY occurs in Section 2, 110 cm to Section 3, 90 cm. It is slightly fractured by drilling and contains pyritized burrows.</p>
1	[Symbol]	1		[Symbol]	[Symbol]	S		
2	[Symbol]	2		[Symbol]	[Symbol]	P		
2	[Symbol]	2		[Symbol]	[Symbol]	P		
3	[Symbol]	3		[Symbol]	[Symbol]	P		
3	[Symbol]	3		[Symbol]	[Symbol]	P		
4	[Symbol]	3		[Symbol]	[Symbol]	S		
4	[Symbol]	3		[Symbol]	[Symbol]	P		
5	[Symbol]	4		[Symbol]	[Symbol]	P		
		CC				M		



SITE 909 HOLE C CORE 84R

CORED 884.8 - 894.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				P		SILTY CLAY, SILTY MUD Major Lithology: SILTY CLAY and SILTY MUD, very dark gray (10YR 3/1, 5Y 3/1, 10Y 3/1) and firm. Both lithologies are laminated (laminae 1-3 mm thick) and moderately bioturbated. Small silt-filled burrows are abundant. The core is moderately fractured in Sections 3, 4, and 5.
2		2			S			
					P			
3			Miocene				10YR 3/1 To 10Y 3/1	
					P			
4								
					P			
5					S			
					P			
6								
					P			
					M			
		CC						



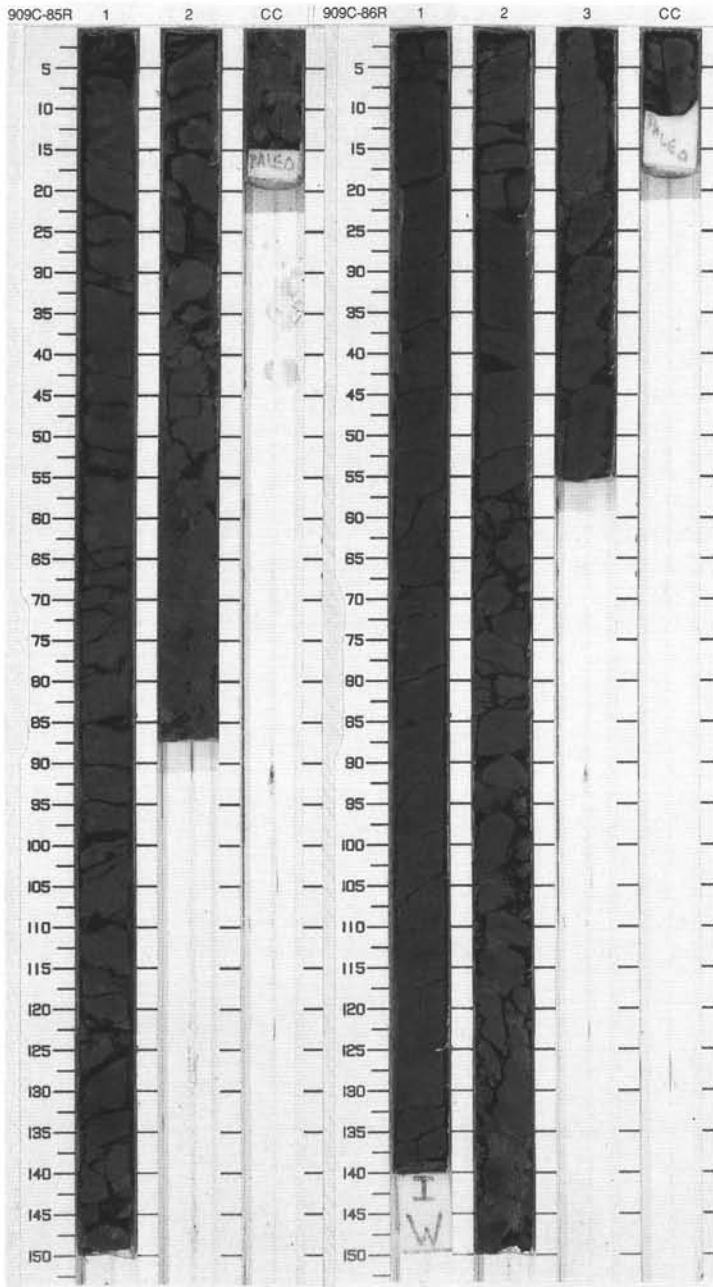
SITE 909 HOLE C CORE 85R CORED 894.4 - 904.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	⋈		S P	5Y 3/1	SILTY CLAY Major Lithology: Very firm, very dark gray (5Y 3/1) SILTY CLAY. Quartz (~36%) and feldspar (~10%) are the important non-clay minerals. Glauconite (2%), mica (1%), and opaques (1%) were also present. Burrows and surface mottling are common throughout Section 1. Sections 2 and CC are highly disturbed by drilling and surface features are obscured.
2	[Hatched pattern]	2		⋈	XXXXX	P		
CC	[Hatched pattern]	CC		⋈	XXXXX	M		

SITE 909 HOLE C CORE 86R CORED 904.1 - 913.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	⋈		S P	5R 2.5/1 To 5Y 3/1	CLAYEY MUD Major Lithology: CLAYEY MUD, very dark gray (5Y 3/1) and black (5Y 2.5/1), with some minor areas of very dark greenish gray (5BG 3/1). Thin (<1-mm-thick) very dark brown clasts may be organic-rich material. There is a general parallel trend to the sediments, suggesting an original bedding, disrupted by bioturbation.
2	[Hatched pattern]	2		⋈	XXXXX	P		Minor Lithology: SILTY MUD, interspersed in small areas throughout the bioturbated sediments. The very dark greenish gray (5BG 3/1) sediment tends to be coarser.
3	[Hatched pattern]	3		⋈	XXXXX	P		
CC	[Hatched pattern]	CC		⋈	XXXXX	M		

General Description:
Variable amounts of coarse silt and fine sand clasts. The biggest are up to 0.5 mm in diameter. Many appear to be burrows; others might be recrystallized shell fragments.

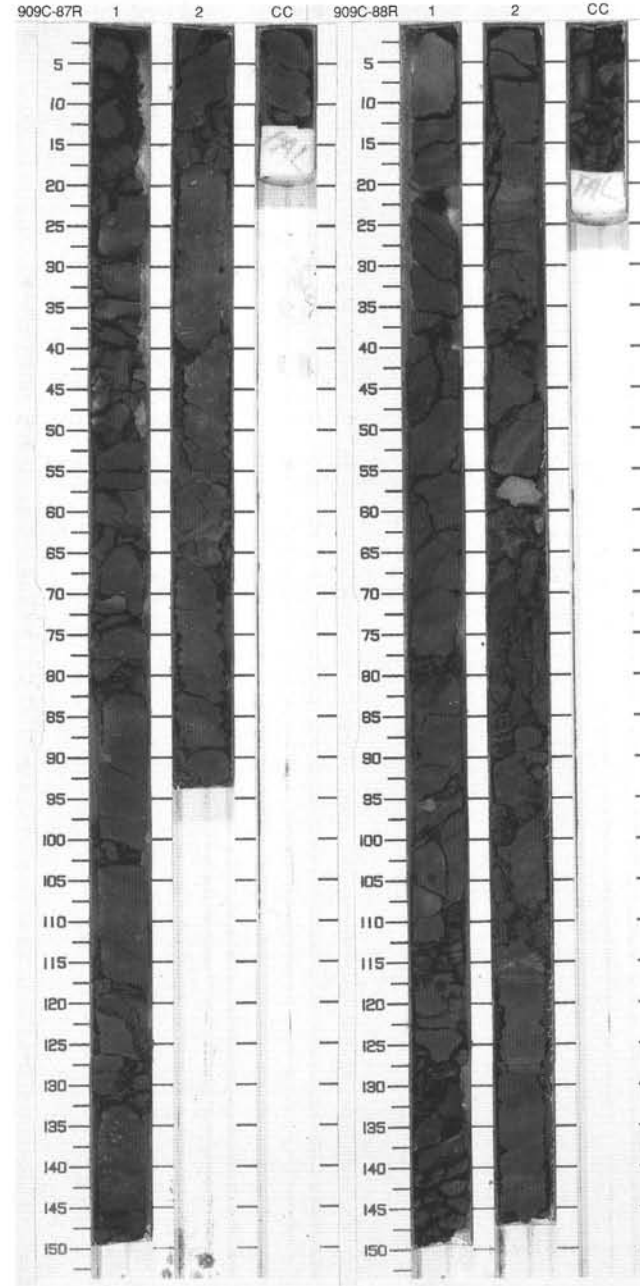


SITE 909 HOLE C CORE 87R CORED 913.8 - 923.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	[Wavy lines]	[Vertical lines]	S P S P S	5Y 3/1 To 10YR 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Thinly laminated SILTY CLAY, very dark gray (5YR 3/1, 10YR 3/1), composed of ~50% clay, ~20% quartz, and 11%–12% feldspar grains. It is characterized by relatively high abundances of accessory minerals and opaques (~4%). Laminae (mm scale) are commonly wavy to irregular. Small burrows (mm scale) are common throughout the core.</p> <p>Minor Lithology: Burrows are commonly filled with SILTY MUD, mainly composed of quartz (~25%) and feldspar (~18%) grains. These are abundant in Section 1, 103–115 and 130–140 cm.</p> <p>General Description: Section 1, 0–21 and 31–51 cm are highly fractured intervals composed of drilling biscuits and breccia. The remainder is moderately fractured.</p>
2		2						
		CC						

SITE 909 HOLE C CORE 88R CORED 923.4 - 933.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	[Wavy lines]	[Vertical lines]	S P S P S	2.5Y 5/2 To 10Y 3/1	<p>SILTY CLAY, SILTY MUD</p> <p>Major Lithology: SILTY CLAY and SILTY MUD, very dark gray (5Y 3/1, 10Y 3/1) and firm. Slumping structures occur in Section 1, 0–110 cm; Section 2, 40–110 and 130–140 cm and Section CC throughout. Section 1, 110–150 cm and Section 2, 0–40 cm and 110–130 cm appear to be laminated.</p> <p>Minor Lithologies: CARBONATE CLAY and CARBONATE BEARING SILTY CLAY, grayish brown (2.5Y 5/2), present in Section 1, 90–110 cm.</p>
2		2						
3		CC						

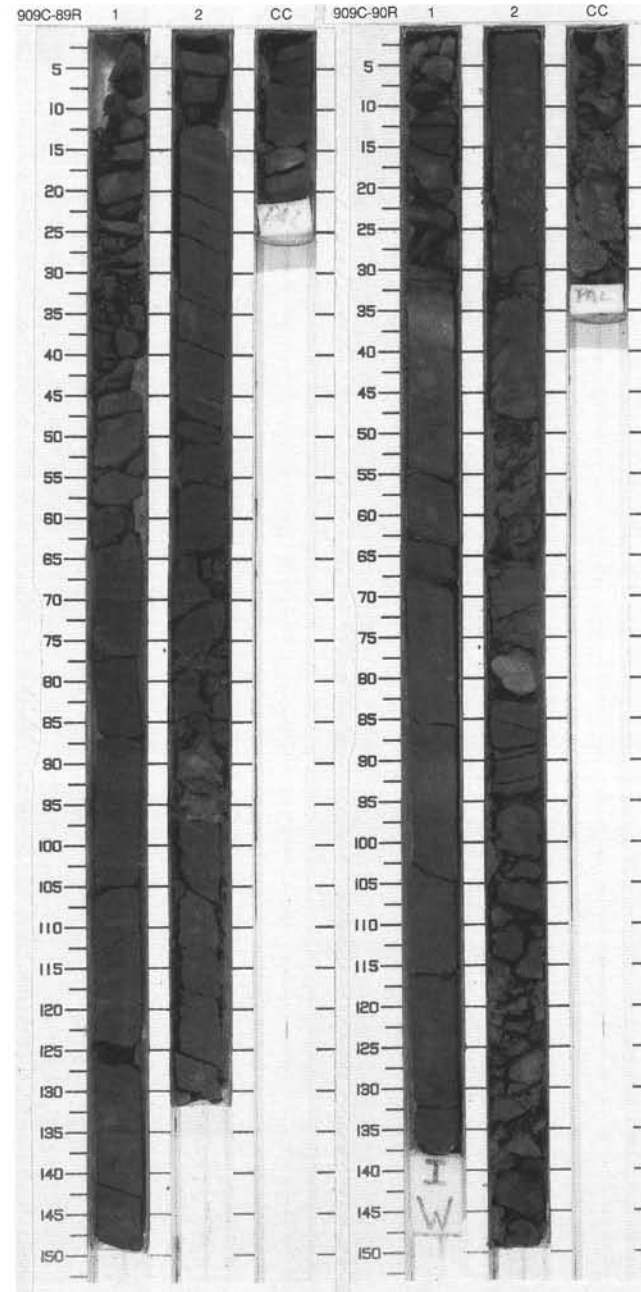


SITE 909 HOLE C CORE 89R CORED 933.1 - 942.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	[Wavy lines]	[Vertical lines]	S P	5Y 5/1 To 10YR 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Slightly bioturbated SILTY CLAY, very dark gray (5Y 3/1 to 10YR 3/1), is finely laminated. Dark grayish brown (10YR 4/2) laminations occur in Section 2. Small subhorizontal burrows (mm scale), are present throughout the section.</p> <p>Minor Lithology: CLAYEY MUD, very dark gray (5Y 3/1, 10YR 3/1), comprises a fining-upward sequence in Section CC, 0-14 cm.</p>
2	[Hatched pattern]	2		[Wavy lines]	[Vertical lines]	S P		
3	[Hatched pattern]	CC		[Wavy lines]	[Vertical lines]	S M		

SITE 909 HOLE C CORE 90R CORED 942.8 - 952.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	[Wavy lines]	[Vertical lines]	S P	5Y 3/1	<p>CLAYEY MUD and SILTY CLAY</p> <p>Major Lithologies: Coarse-grained CLAYEY MUD layers, very dark grayish brown (2.5Y 3/2) are structureless except for a few clayey and laminated lenticular inclusions; they are very firm (Section 1, 68 cm to Section 2, 47 cm) or fissile (Section 2, 47-67 cm). They grade into finer grained CLAYEY MUD intervals which are more bioturbated and distinctively laminated with either very thin carbonate layers or several sets of interbedded silt and clay laminae. SILTY CLAY, very dark gray (5Y 3/1) is slightly bioturbated. It is homogeneous or shows a faint wavy color banding. Slump-like structure is present in Section 2, 12-27 cm, within a silty clay which shows vertical contorted color bands and sharp lower and top contacts. All of the clayey mud interval could be interpreted as a single gravity flow.</p>
2	[Hatched pattern]	2		[Wavy lines]	[Vertical lines]	S P		
3	[Hatched pattern]	CC		[Wavy lines]	[Vertical lines]	M	10YR 3/1	

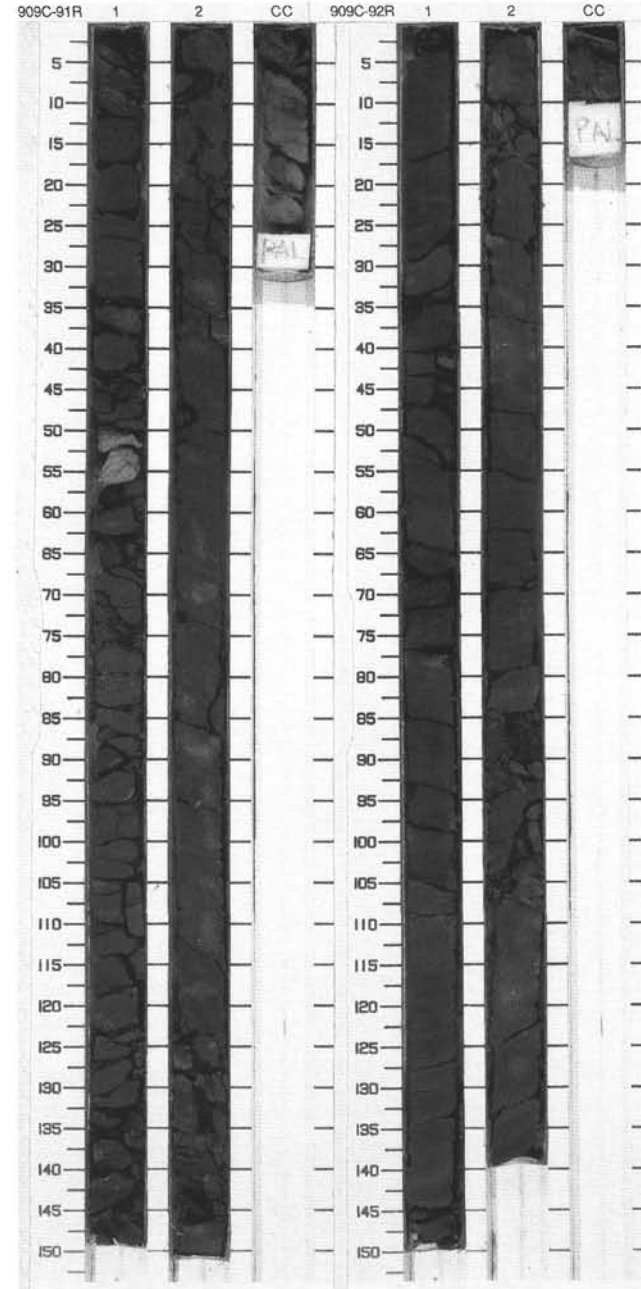


SITE 909 HOLE C CORE 91R CORED 952.4 - 962.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Miocene	[Symbol]		S P	5Y 3/2	<p>CLAYEY SILT and SILTY CLAY</p> <p>Major Lithologies: CLAYEY SILT and SILTY CLAY, dark olive gray (5Y 3/2), homogeneous and fissile (apparent dip of approximately 20 degrees), showing thin color bands that are more green in tint. Mm-sized gray burrows, filled with quartz sand and silt, are present throughout. Very dark grayish brown burrows filled with CARBONATE CLAYEY SILT, are abundant in Section 1. Black pods (incipient concretions?), Ø <5 mm, are also present in Section 1. A carbonate concretion of dark grayish brown and dark olive gray (2.5Y 4/2, 5Y 3/2) in Section 1, 49-57 cm shows slight bioturbation.</p>
2	[Symbol]	2		[Symbol]		S P		
3	[Symbol]	CC		[Symbol]		M		

SITE 909 HOLE C CORE 92R CORED 962.1 - 971.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Miocene	[Symbol]		S P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Fissile, very firm and very dark gray (5Y 3/1) SILTY CLAY. Greenish dark gray (10Y 4/1) and very dark brown (10YR 2/2) color bands are very common throughout. The color banding is mostly wavy and discontinuous, but a few well-defined color bands/laminae are present. The brownish layers include slightly more sand-sized material, but otherwise there is no correlation between color and texture. Elongated or circular burrows filled with light gray sediment (quartz or carbonate) are common in some intervals. Recrystallized calcereous benthic forams are present throughout.</p>
2	[Symbol]	2		[Symbol]		S P		
3	[Symbol]	CC		[Symbol]		M		



SITE 909 HOLE C CORE 93R

CORED 971.7 - 981.3 mbsf

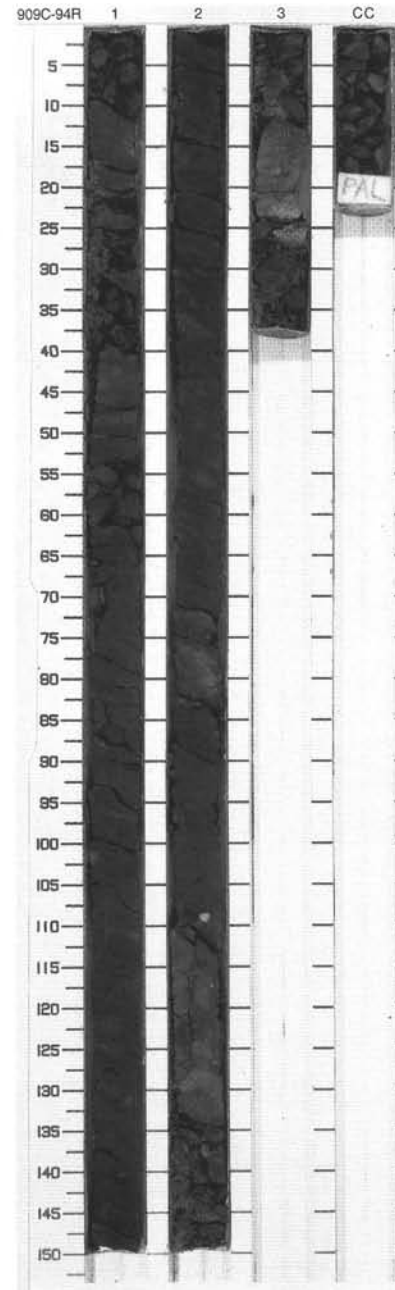
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Miocene	[Symbol]		S P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1) SILTY CLAY occurs throughout core, with faintly greenish to brownish very dark gray (5Y 3/1) color banding in Section 1, 12-74 cm.</p> <p>Minor Lithology: Dark grayish brown (10YR 4/2) CARBONATE CLAY occurs in a large burrow (4 cm) in Section 2, 104 cm.</p> <p>General Description: Drilling biscuits throughout core, with dipping bedding lineations.</p>
2	[Symbol]	2				S I P		
	[Symbol]	CC				S P		
						M		



SITE 909 HOLE C CORE 94R

CORED 981.3 - 990.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Miocene	~		S	5Y 2.5/1 To 10Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (10Y 3/1) and black (5Y 2.5/1), contains bioturbated laminations and mottled dark brown and gray areas. The abundance of white sand/silt burrows is variable but generally low. It is highest in Section 1, 93-95 and 121-128 cm; and the top of Section 2.</p> <p>Minor Lithologies: CARBONATE-BEARING SILTY CLAY, very dark gray (5Y 3/1), in Section 1, 0-30 cm. CARBONATE CLAY, brown (10YR 5/3), is the dominant lithology in the slumps in Section 2, 108-144 cm, and Section 3, 11-27 cm. SILTY CLAY grades into brown CLAYEY SILT in Section 2, 100 cm, which lacks white burrows, and into OPAQUE-BEARING SILTY CLAY in Section 2, 58 cm, which contains both framboidal and irregular-shaped, silt-sized, opaque grains of probably pyrite.</p> <p>General Description: Three separate slumps are present in Section 2, 75-82 and 108-144 cm, and Section 3, 11-27 cm. Carbonate is an important component of the lower two slumps; it is not reactive with 10% HCl and may be siderite. Clasts within the slump include black silty clay, a single light colored plutonic clast, and many contorted carbonate clasts, suggesting redeposition of a previous slump. White silt/sand burrows are present both within clasts and at lithologic contacts, suggesting burrowing prior to and after slumping.</p>
2		2		~		S		
3		3		~		S P		
		CC		~		S P		
				~		S M		



SITE 909 HOLE C CORE 95R CORED 990.7 - 1000.4 mbsf

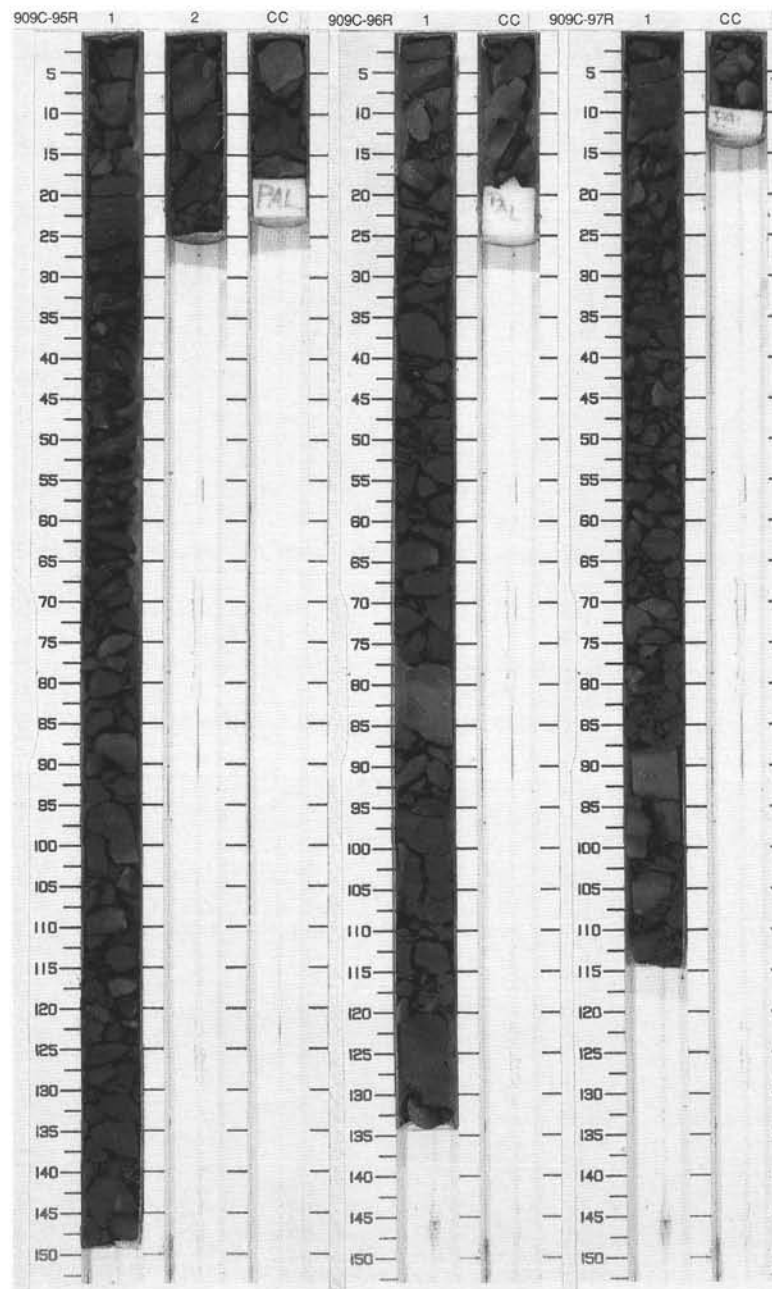
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	Miocene			P S P M	5Y 3/1 To 10Y 3/1	CLAYEY SILT Major Lithology: CLAYEY SILT, very dark gray (5Y 3/1, 10Y 3/1), firm. Sediments appear to be laminated and slightly bioturbated. White silt burrow fills are common.

SITE 909 HOLE C CORE 96R CORED 1000.4 - 1010.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	Miocene			P S P S M	10YR 4/1 To 5Y 3/1	SILTY CLAY Major Lithology: SILTY CLAY, dark gray (10YR 4/1) to very dark gray (10YR 3/1, 5Y 3/1), laminated. Moderate bioturbation is present throughout the core. Burrows are commonly pyritized; <i>Skolithos</i> (?) burrow is filled with pyrite in Section 1, 95-102 cm. Minor Lithology: CARBONATE CLAY layer, dark gray (10YR 4/2), is present in Section 1, 77-84 cm.

SITE 909 HOLE C CORE 97R CORED 1010.0 - 1019.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	Miocene			P S P M	5Y 3/1 To 10Y 3/1	SILTY CLAY Major Lithology: SILTY CLAY, very dark gray (5Y 3/1, 10Y 3/1), laminated, slightly bioturbated. White silt-filled burrows are common.

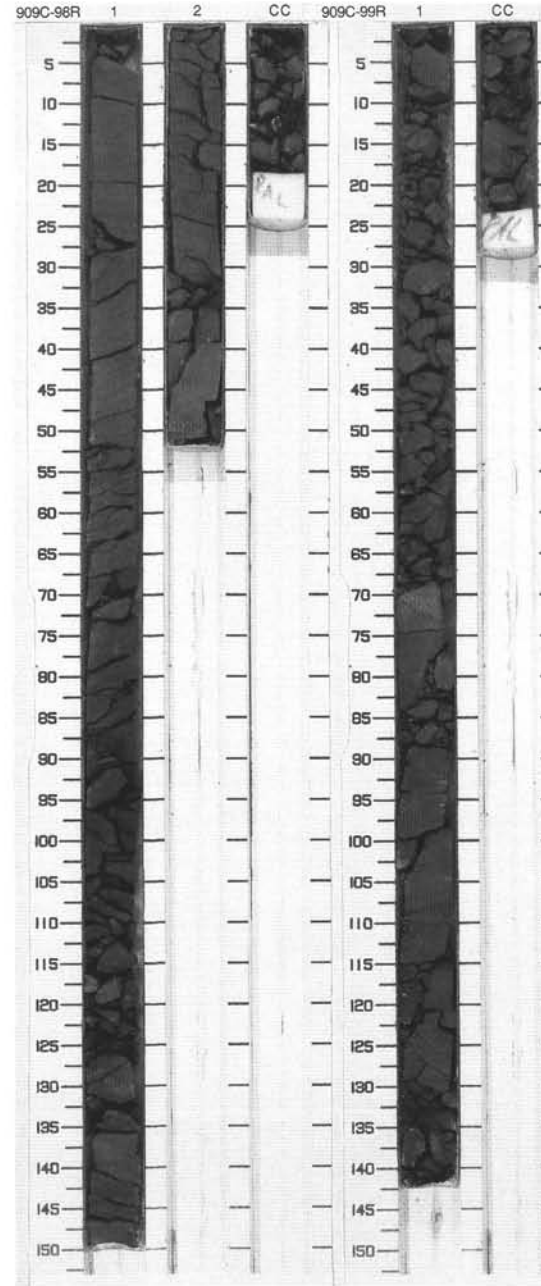


SITE 909 HOLE C CORE 98R CORED 1019.7 - 1029.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Miocene	(P) [Symbol]	[Symbol]	P	5Y 3/1 To 2.5Y 4/2	<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1) to dark grayish brown (2.5Y 4/2) SILTY CLAY. Interbedded layers are distinguished by discontinuous color boundaries. Bioturbation is moderate throughout. Quartz (~20%) is major non-clay mineral. Feldspar (~8%), accessory minerals (~7%), and inorganic calcite (~5) also occur. Sand grains are commonly rounded and altered.</p> <p>General Description: Core contains consolidated sediment which is moderately to highly fractured by drilling.</p>
2	[Symbol]	2		(P) [Symbol]	[Symbol]	P		
		CC			[Symbol]	M		

SITE 909 HOLE C CORE 99R CORED 1029.2 - 1038.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	Miocene	(P) [Symbol]	[Symbol]	P	5Y 3/1	<p>CARBONATE-BEARING SILTY CLAY</p> <p>Major Lithology: CARBONATE-BEARING SILTY CLAY, very dark gray (5Y 3/1), homogeneous and fissile. Subparallel laminae, commonly discontinuous, are present throughout the core. Gray silty burrows and pyrite concretions, mm size, are common; Section 1, 59 cm contains several pyrite concretions, Ø 5 mm. Quartz, inorganic calcite, and feldspar are the main silt-sized components.</p>
		CC			[Symbol]	M		



SITE 909 HOLE C CORE 100R CORED 1038.8 - 1048.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	Miocene	⋈	XXXXV	S P	5Y 3/1 To 2.5Y 3/2	<p>SILTY CLAY</p> <p>Major Lithology: SILTY CLAY, very dark gray (5Y 3/1) with elongated very dark grayish brown (2.5 Y3/2, 10 YR 3/2) patches. These patches are slightly to moderately bioturbated with distinct <i>Zoophycos</i> traces. Within the relatively well-preserved upper part of Section 2, the sediment contains deformed mud clasts which are either laminated or structureless and similar to the silty clay matrix. This provides evidence of gravity flow or very early, soft sediment deformation.</p>
2	[Hatched pattern]	2		⋈	XXXXV	S P M		

SITE 909 HOLE C CORE 101R CORED 1048.4 - 1052.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1	late Oligocene-Miocene	⋈	XXXXV	P	5Y 3/1	<p>SILTY CLAY</p> <p>Major Lithology: Very dark gray (5Y 3/1), slightly to moderately bioturbated SILTY CLAY. In Section 1, 0 cm to Section 2, 27 cm slump folds and contorted slumps are common. Below this interval the sediment is fissile and exhibits lamination or wavy color banding. The contact between the two zones is sharp. Mm-sized burrows filled with lighter sediment occur throughout. Two pyrite concretions (burrow fills) are present in Section 1, 70-72 cm.</p>
2	[Hatched pattern]	2		⋈	XXXXV	S P M		



Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1		1	P		P	5Y 3/1 To 10Y 3/1	SILTY CLAY AND CLAYEY SILT Major Lithology: SILTY CLAY AND CLAYEY SILT, very dark gray (5Y 3/1, 10Y 3/1), laminated, moderately to extensively bioturbated. Discontinuous silty laminae appear to have been disrupted by bioturbation. Very dark grayish brown (10YR 3/2) and white silt burrows are present throughout. Glauconite is common; pyrite is present throughout, especially in burrows. Section CC contains fine-sand particles composed of worm tubes(?).
2			P		S		
3			P		P		
4			P		S		
	CC				M		Minor Lithology: CARBONATE-BEARING SILTY CLAY, very dark grayish brown (10YR 3/2), occurs as laminations (<1 mm thick).

