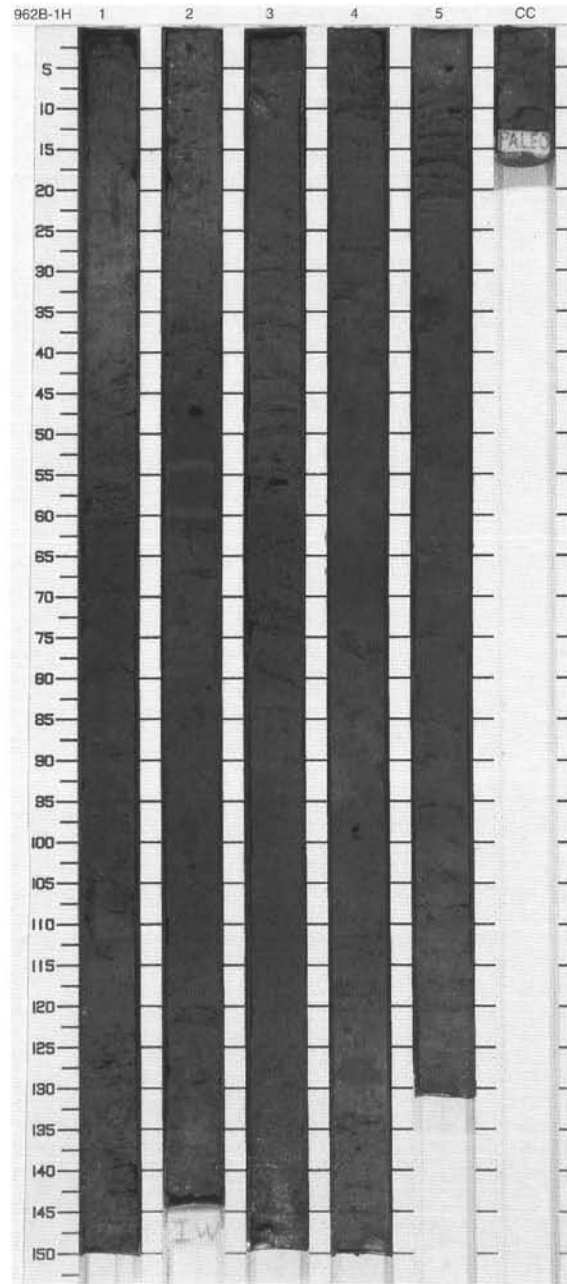


SITE 962 HOLE B CORE 1H

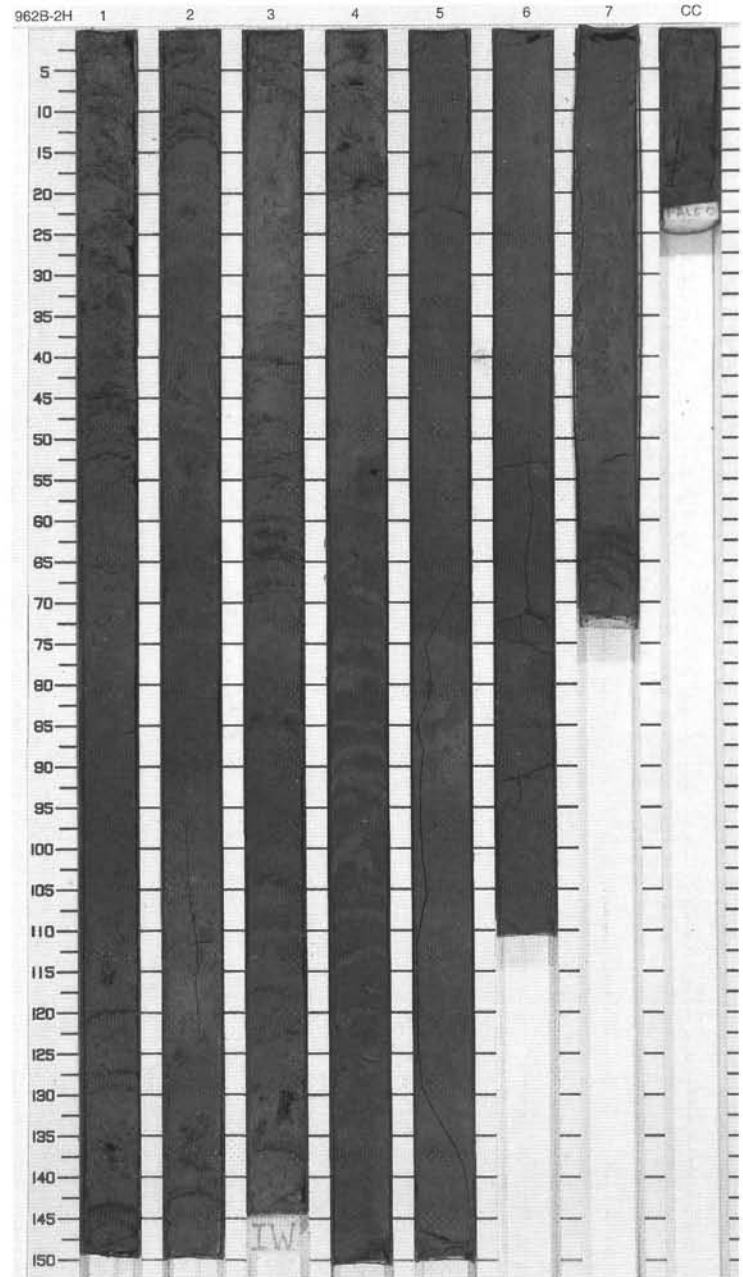
CORED 0.0 - 7.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	
0.0 - 1.0	[Symbol]	1	middle Pleistocene	[Symbol]	S	S	10YR 5/4 To N4	SILTY CLAY WITH OPAL and SILTY CLAY WITH MICRITE  Major Lithologies: Highly variable sediment, with dominantly SILTY CLAY WITH OPAL and SILTY CLAY WITH MICRITE interbeds is massive to slightly bioturbated. Slightly lighter gray beds in Section 3 are composed of CLAY WITH NANNOFOSSILS AND MICRITE. The top 18 cm comprises dark brown SILTY CLAY WITH NANNOFOSSILS AND DIATOMS, and thin beds of CLAY WITH NANNOFOSSILS in Section 1. Light mottles from bioturbation in Sections 1 and 4 comprise CLAY. Green, glauconitic laminae appear to be nascent hardgrounds.	
1.0 - 2.0	[Symbol]	1		[Symbol]	S	S			
2.0 - 3.0	[Symbol]	2		[Symbol]	S	S			
3.0 - 4.0	[Symbol]	3		[Symbol]	S	S			
4.0 - 5.0	[Symbol]	4		[Symbol]	S	S			
5.0 - 6.0	[Symbol]	4		[Symbol]	S	S			
6.0 - 7.0	[Symbol]	5		[Symbol]	S	S			
7.0 - 7.5	[Symbol]	5		[Symbol]	S	S			
						M			

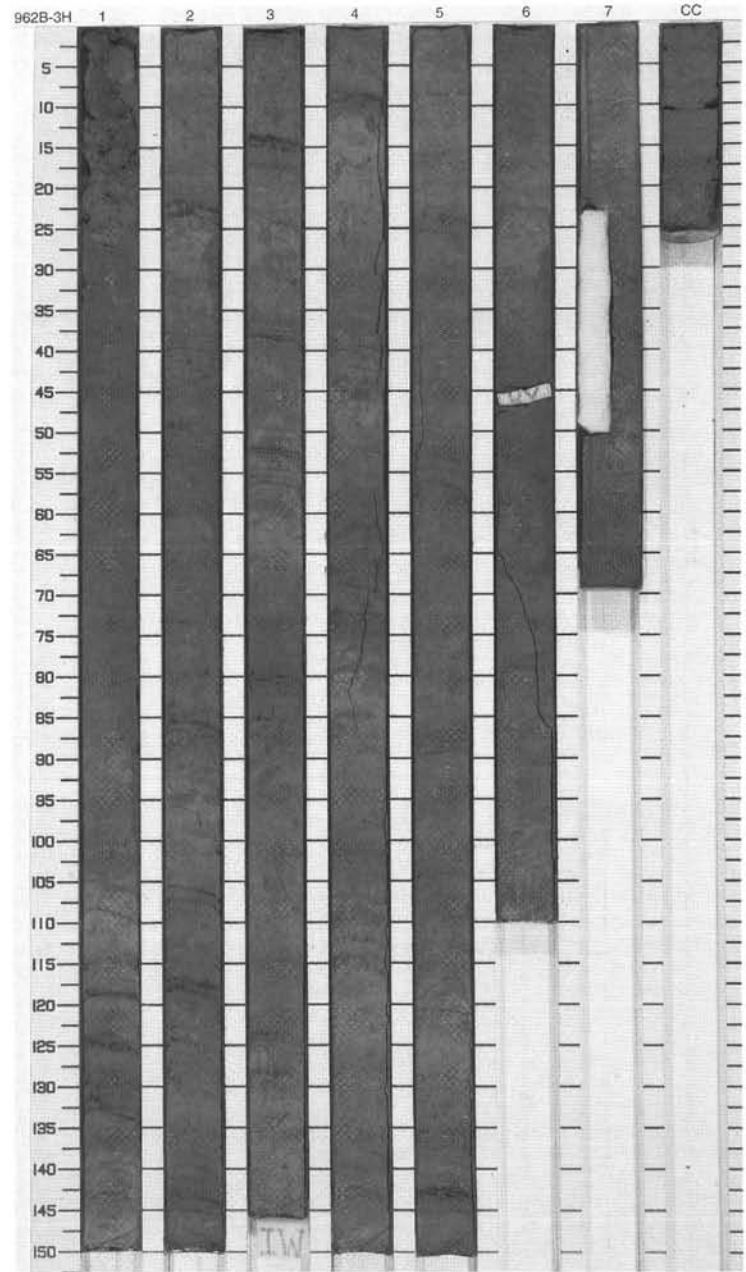


SITE 962 HOLE B CORE 2H CORED 7.5 - 17.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1		P	S	S	N2	<p>PYRITIC CLAY WITH SILT AND PLANT DEBRIS and SILTY CLAY WITH PLANT DEBRIS</p> <p>Major Lithologies: This interval comprises black to dark gray PYRITIC CLAY WITH SILT AND PLANT DEBRIS interbedded with dark to medium greenish gray SILTY CLAY WITH PLANT DEBRIS. Locally, thin green, greenish gray laminations are present which contain fine-grained glauconite. These are especially well developed in Section 3, 40, 54, 63, and 84 cm. Pyrite, occurring as framboids and clay-sized crystals, is disseminated throughout and locally comprises up to 25% of sediment. Microfossils and microflora are absent from these lithologies except in Section 5, 40-55 and 130-150 cm.</p>
1	[Dotted pattern]	1		P	S	S	5GY 4/1 To N2	
2	[Dotted pattern]	2		P	S	S	N2	
3	[Dotted pattern]	3		P	S	S	5GY 4/1 To N2	
3	[Dotted pattern]	3		P	S	S	N2	
4	[Dotted pattern]	4		P	S	S	5GY 2/1	
5	[Dotted pattern]	5		P	S	S	N2	
6	[Dotted pattern]	6		P	S	S	5GY 4/1 To N2	
7	[Dotted pattern]	7		P	S	S	N2	
9	[Dotted pattern]	9		P	S	S	N2	
CC		CC		P	W	M		

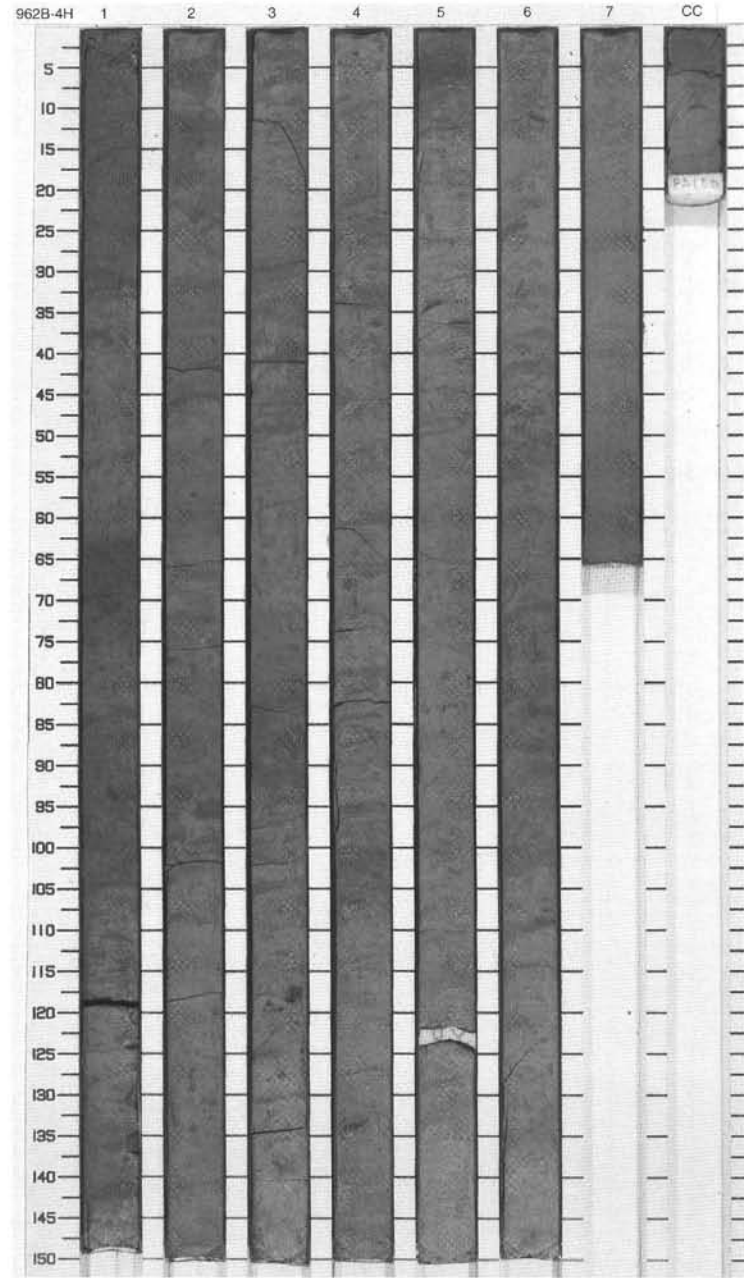


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1		P	W			<p>CLAY and NANNOFOSSIL CLAY</p> <p>Major Lithologies: The core is made up of an irregular alternation of darker greenish gray (5GY 4/1 or 5G 4/1 to 5GY 5/1) CLAY and lighter greenish gray (5GY 5/1 to 5GY 6/1) NANNOFOSSIL CLAY. Both are slightly bioturbated throughout. The darker clay often makes up 1-cm-thick layers and irregular mottles at the boundaries between the two lithologies.</p> <p>Minor Lithologies: Abundant grayish green (5G 4/2) layers consisting of NANNOFOSSIL GLAUCONITE CLAY WITH FORAMS AND MICRITE occur throughout the core. These layers are up to 2 cm thick, coarser and more indurated than the surrounding sediment and probably represent hardgrounds. They are particularly abundant in Sections 2 through 5 where they mostly occur within the darker clays. Dark greenish gray (5GY 4/1) structureless layers of CLAYEY NANNOFOSSIL OOZE WITH FORAMS with a slight brownish tinge occur in Section 3, 67-75 and 113-122 cm. In the highly disturbed top of Section 1, 5-10 cm, there is a large, irregular spot of dark gray (N3) pyrite claystone similar to Core 159-962B-2H.</p>
1-2	[Dotted pattern]	2		P		S		
2-3	[Dotted pattern]	3		P		S		
3-4	[Dotted pattern]	4		P		S		
4-5	[Dotted pattern]	5		P		S	5GY 4/1 To 5GY 6/1	
5-6	[Dotted pattern]	6		P		S		
6-7	[Dotted pattern]	7		P		S		
7-8	[Dotted pattern]	8		P		S		
8-9	[Dotted pattern]	9		P		S		
9-10	[Dotted pattern]	CC		P		M		

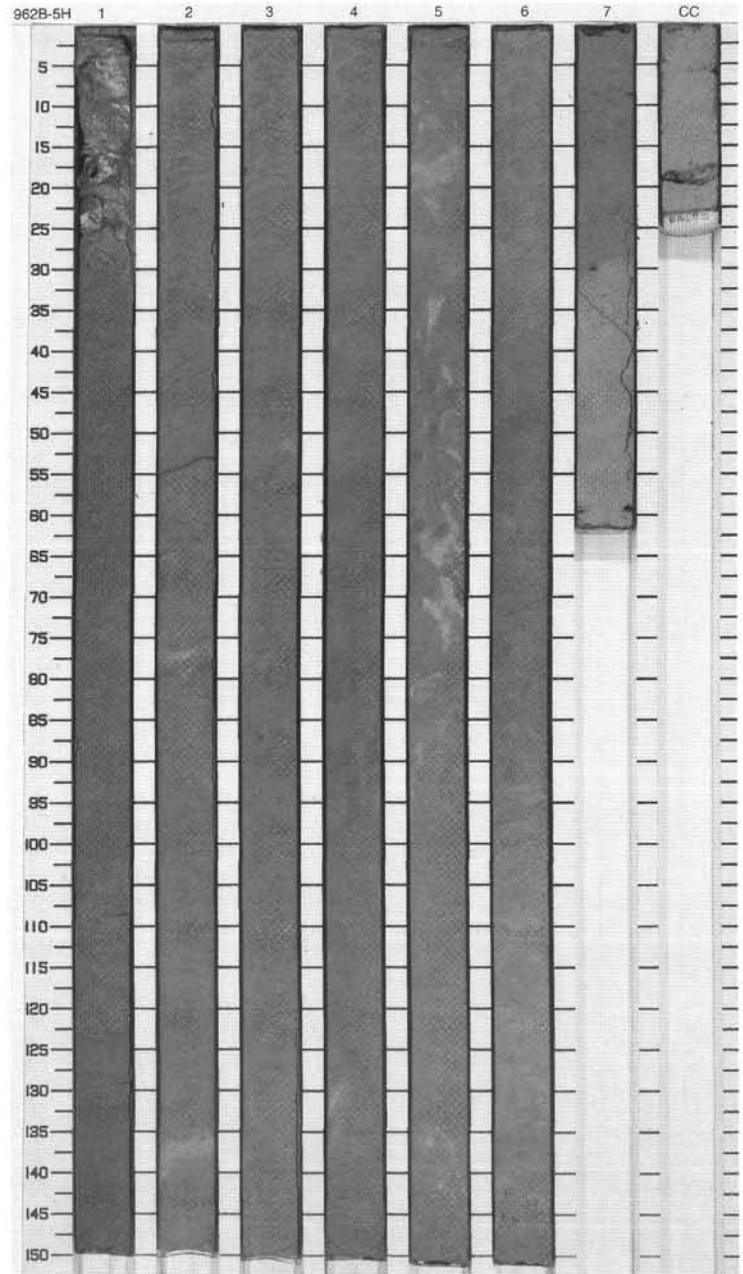


SITE 962 HOLE B CORE 4H CORED 26.5 - 36.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1		[Symbol]		S	5GY 4/1	CLAY WITH QUARTZ SILT and CLAY WITH ZEOLITE
2	[Dotted pattern]	2		[Symbol]		S	5GY 5/1 To 5GY 4/1	Major Lithologies: Dominant lithology is greenish gray (5GY 5/1) CLAY WITH QUARTZ SILT and light olive brown (2.5Y 5/4) CLAY WITH ZEOLITE with some enrichment of iron oxides (goethite). The lower part of the core, downcore from Section 3, 83 cm consists of greenish gray (10Y 4/2 to 10Y 5/4) moderately burrowed CLAY WITH QUARTZ SILT. Burrows are generally darker and contain pyrite and iron oxides.
3	[Dotted pattern]	3		[Symbol]		S	2.5Y 5/4	
4	[Dotted pattern]	4		[Symbol]		S	5GY 5/1 To 2.5Y 5/4	Minor Lithologies: The upper part of the core is dark greenish gray (5GY 4/1), bioturbated CLAY WITH PYRITE AND QUARTZ SILT. This clay contains few glauconitic bands and is also present in Section 5, 0-20 cm. A few cm-thick layers of olive brown (2.5 Y 4/4) GOETHITE CLAY are present in Section 2, 22-150 cm. Section 7 and Core Catcher consist of structureless grayish brown (2.5Y 5/2) CLAY WITH GOETHITE. Some disseminated pyrite occurs throughout the core and one larger concentrated spot of pyrite and goethite is present in Section 3, 114-118 cm.
5	[Dotted pattern]	5	late Miocene	[Symbol]		S	10Y 4/2	
6	[Dotted pattern]	6		[Symbol]		S	5GY 4/1	
7	[Dotted pattern]	7		[Symbol]		S	10Y 5/4	
9	[Dotted pattern]	7		[Symbol]		S	2.5Y 5/2	
		CC				M		



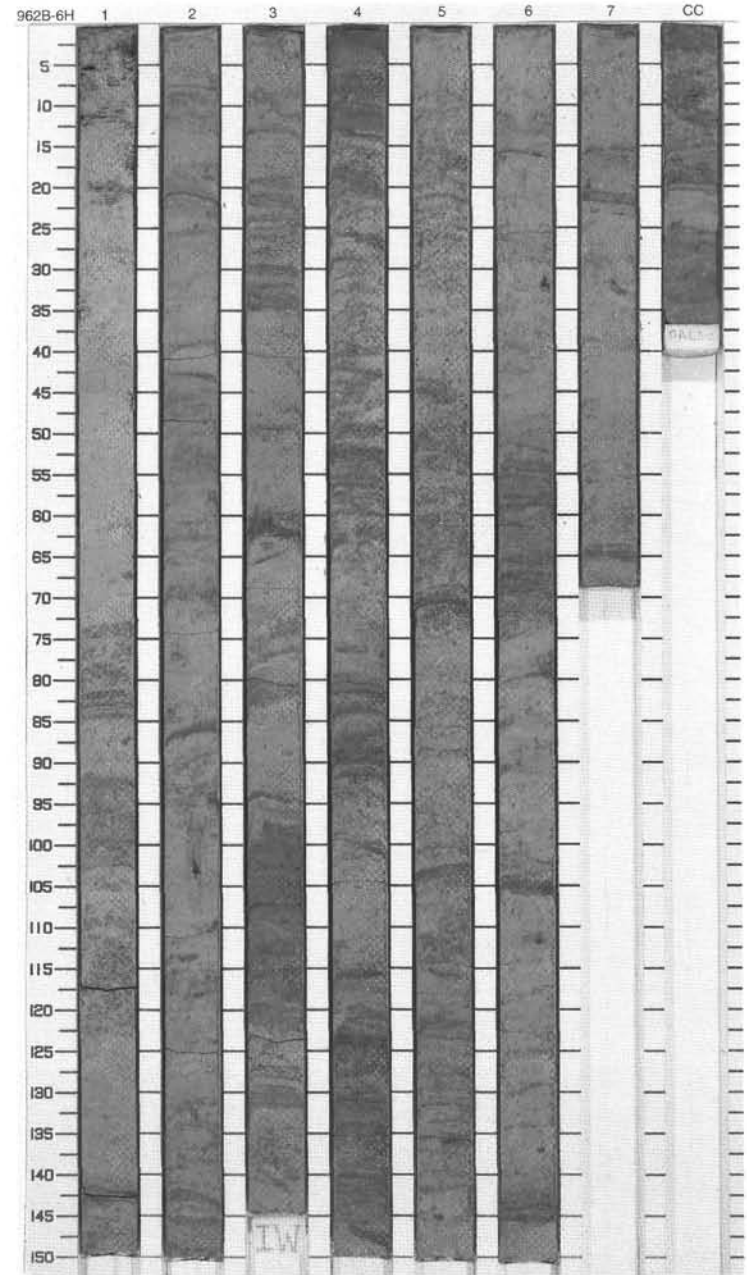
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Hatched pattern]	1		~	OC	D	2.5Y 5/4 To 2.5Y 5/4	<p>CLAYSTONE WITH QUARTZ SILT and CLAYSTONE</p> <p>Major Lithologies: This core consists of CLAYSTONE WITH QUARTZ SILT, which occurs as goethite-bearing, light olive brown to olive brown (2.5Y 5/4 to 2.5Y 4/4) horizons alternating with olive-colored (5Y 4/4 to 5Y 5/3) horizons, from Section 1 to Section 6, 105 cm. The lowermost part of the core comprises olive gray to grayish green (10Y 5/2 to 7.5GY 6/2) CLAYSTONE. The core is slightly bioturbated, and subhorizontal to steeply dipping burrows are either filled with pyrite or goethite. Pyrite also occurs as disseminated framboids or nodules. Shell fragments, mostly of foraminifers, occur in CLAYSTONE. Sections 5 and 6 have microfaults.</p> <p>General Description: In Section 5, several spots and burrows in CLAYSTONE WITH QUARTZ SILT have the grayish green hue of CLAYSTONE. The age of the core is unknown.</p>
2	[Hatched pattern]	2		~		S	5Y 4/4	
3	[Hatched pattern]	3		~		S	5Y 4/4	
4	[Hatched pattern]	4		~		S	2.5Y 4/4 To 5Y 4/4	
5	[Hatched pattern]	5		~		S	5Y 5/3	
6	[Hatched pattern]	6		~		S	10Y 5/2 To 7.5GY 6/2	
7	[Hatched pattern]	7		~		S D M		



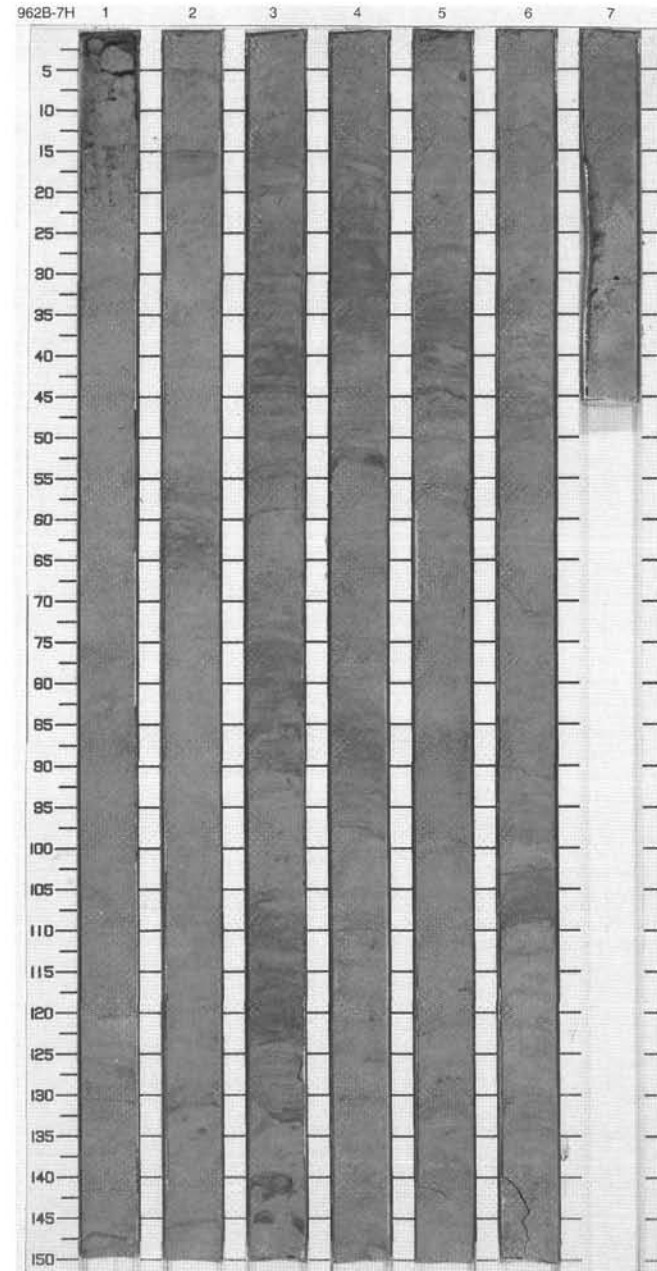


SITE 962 HOLE B CORE 6H CORED 45.5 - 55.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1		(G) X	○	S	7.5GY 6/2	<p>CLAYSTONE</p> <p>Major Lithologies:                      This core consists of light grayish green to grayish green (7.5GY 6/2 to 5G 4/2) CLAYSTONE, which either alternates with, or is mottled with, two minor lithologies: brownish gray (5Y 5/1) RADIOLARIAN CLAYSTONE WITH DIATOMS, and greenish gray (5G 4/2 to 5G 5/2) CLAYSTONE WITH RADIOLARIANS AND GLAUCONITE. These minor lithotypes commonly fill subhorizontal burrows and form thin color bands with diffuse boundaries. Pyrite occurs as disseminated framboids and nodules. Shell fragments are also present.</p>
2	[Dotted pattern]	2		(G) X (G) P		S	7.5GY 6/2 To 5G 4/2	
3	[Dotted pattern]	3		(G) X (G) P		S		
4	[Dotted pattern]	4		(G) X (G) P		S	5Y 5/1	
5	[Dotted pattern]	4	early Miocene	(G) P (G) P		I	7.5GY 6/2 To 5G 4/2	
6	[Dotted pattern]	5		(G) P (G) P		S		
7	[Dotted pattern]	5		(G) P (G) P		D		
8	[Dotted pattern]	6		(G) X (G) P			7.5GY 6/2 To 5G 4/2	
9	[Dotted pattern]	7		(G) X (G) P				
10	[Dotted pattern]	CC		(G) P		M		

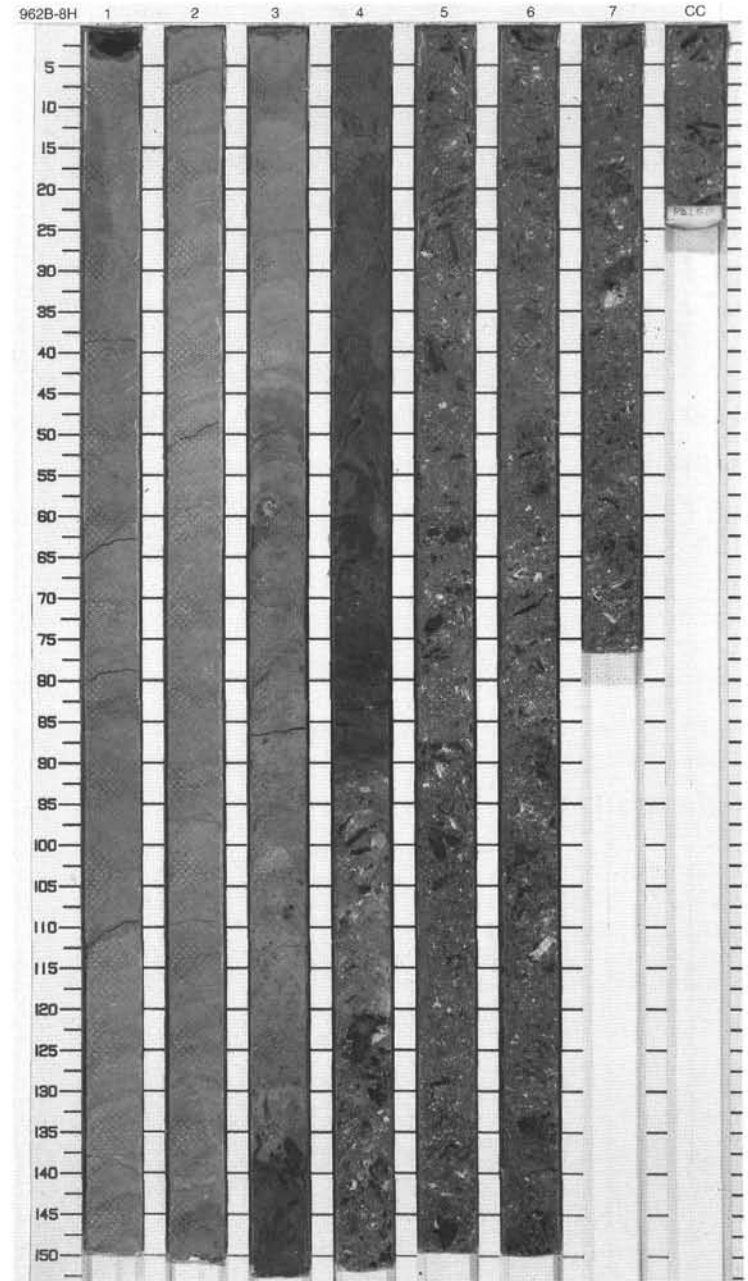


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1		Z	W	S		<p>PORCELLANITE WITH ZEOLITE AND CLAY</p> <p>Major Lithology: Pale green to grayish green PORCELLANITE WITH ZEOLITE AND CLAY, with sub-mm laminae of glauconite (darker green) and pyrite (purple ZEOLITIC CLAY). Glauconite-rich laminae appear to be hardgrounds rather than pellet lags. Rip-up clasts of glauconite hardgrounds occur from Section 4, 40 cm, to the base of the core. This sediment is slightly to heavily bioturbated, with faint burrows. Some burrows are composite; these are usually brown and richer in siliceous microfossil fragments (PORCELLANITE WITH CLAY AND ZEOLITE); <i>Chondrites</i> and <i>Planolites</i> are also present. From Section 2, 134 cm, to base, some burrows, 2 mm to 1 cm wide, are filled with tabular marcasite crystals.</p>
1	[Symbol]	1		G				
2	[Symbol]	2		P		D		
2	[Symbol]	2		P		S		
3	[Symbol]	3		P				
3	[Symbol]	3		P				
3	[Symbol]	3		G				
4	[Symbol]	4		G				
4	[Symbol]	4		P		S		
5	[Symbol]	5	early Miocene	G			5G 6/2 To 5G 5/2	
6	[Symbol]	6		P				
6	[Symbol]	6		P				
6	[Symbol]	6		G				
7	[Symbol]	7		Z				
7	[Symbol]	7		G				
						M D		



SITE 962 HOLE B CORE 8H CORED 64.5 - 74.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1		(G) P	S			<p>PALYGORSKITE CLAYSTONE and PALYGORSKITE CLAYSTONE WITH GLAUCONITE</p> <p>Major Lithologies:                      Pale green (5G 7/2 to 10G 6/1)                      PALYGORSKITE CLAYSTONE and dusky green (5G 3/2)                      PALYGORSKITE CLAYSTONE WITH GLAUCONITE are faintly bedded. Glauconite specks are sparsely disseminated in Sections 1 to 4. Pyrite specks and nodules are present throughout the core. PALYGORSKITE CLAYSTONE WITH GLAUCONITE at Section 4, 40 to 60 cm, appears to be flow-in.</p>
2	[Dotted pattern]	2		P	S		5G 7/2 To 10G 6/1	
3	[Dotted pattern]	3		P	D			
4	[Dotted pattern]	3		(G) P			10GY 5/2	
5	[Dotted pattern]	4		(G) P			10G 4/2	<p>Minor Lithology:                      Pale green (10G 6/1) CHERT BRECCIA occurs at Section 4, 92 cm to Core Catcher, 23 cm. CHERT BRECCIA comprises clasts of white (N9) and medium dark gray (N4) to grayish olive green (5GY 3/2) CHERT and pale green (10G 6/1) claystone. The genesis of CHERT BRECCIA is unknown, but possibly due to debris flow or due to drilling disturbance.</p>
6	[Dotted pattern]	4		(G) P	S			
7	[Dotted pattern]	4		(G) P				
8	[Dotted pattern]	5	Cenomanian-Albian	(G) P				<p>General Description:                      The age of PALYGORSKITE CLAYSTONE and PALYGORSKITE CLAYSTONE WITH GLAUCONITE at Section 1, 0 cm to Section 4, 92 cm is unknown.</p>
9	[Dotted pattern]	6		(G) P				
	[Dotted pattern]	7		(G) P				
	[Dotted pattern]	CC		(G) P			10G 6/1	
					M			

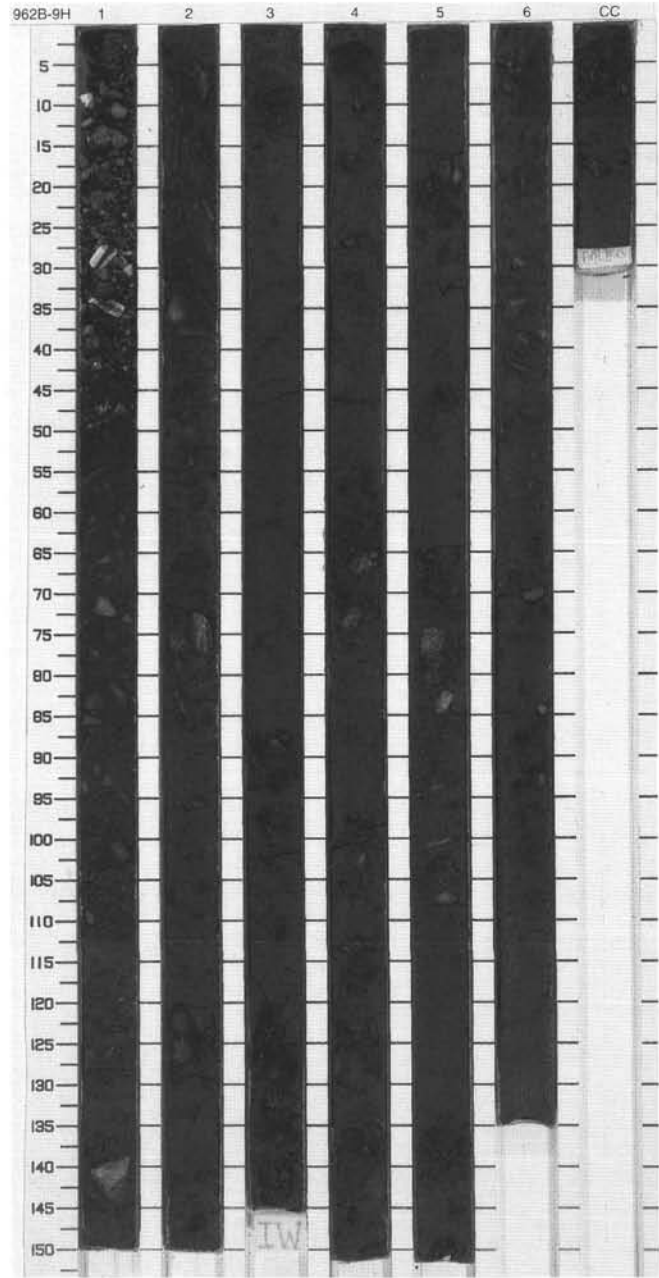




SITE 962 HOLE B CORE 9H

CORED 74.0 - 83.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	▲▲▲▲▲▲▲▲▲▲	1			XXXXXX			<p>CHERT and PORCELLANITE WITH PYRITE AND CLAY</p> <p>Major Lithologies:                      This interval has been severely brecciated by coring and consists of fragments floating within drilling flour. Fragments recovered include dark brown-gray, PORCELLANITE WITH PYRITE AND CLAY which exhibits thin discontinuous laminations 1 to 3 mm thick, and CHERT. This chert varies from dark brown-black to clear, and includes replacive chert and chert which fills fractures. These fractures have, in turn, been fractured and are filled by light brown porcellanite. Fossils are very rare and include spicules and fragments of radiolarians and diatoms. Plant debris and pyrite are distributed throughout, including within the black CHERT.</p>
2	▲▲▲▲▲▲▲▲▲▲	2	III		SS			
3	▲▲▲▲▲▲▲▲▲▲	3			D			
4	▲▲▲▲▲▲▲▲▲▲	3	III		I			
5	▲▲▲▲▲▲▲▲▲▲	4	III	XX			5GY 2/1	
6	▲▲▲▲▲▲▲▲▲▲	4						
7	▲▲▲▲▲▲▲▲▲▲	5			S			
8	▲▲▲▲▲▲▲▲▲▲	6	Z					
9	▲▲▲▲▲▲▲▲▲▲	6						
CC					M			



## SITE 962 HOLE B CORE 10H CORED 83.5 - 93.0 mbsf

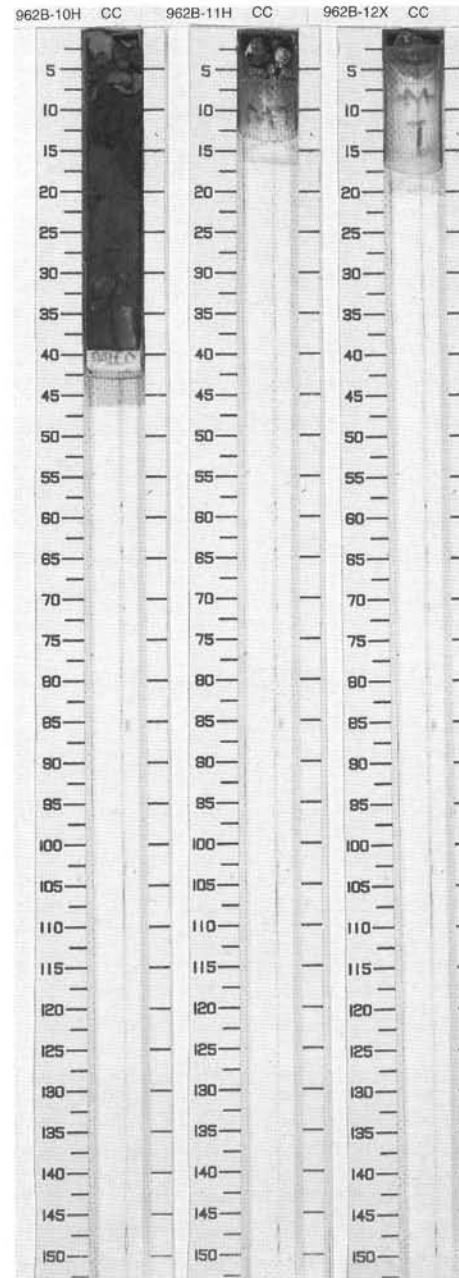
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC		}	XX	M 6	5Y 2/1	<p>NANNOFOSSIL FORAM CLAY WITH PYRITE, PORCELLANITE, and CHERT</p> <p>Major Lithologies: Drilling breccia of opaque olive black (5Y 2/1) PORCELLANITE, and translucent, olive black CHERT is mixed with drilling induced mud of NANNOFOSSIL FORAM CLAY WITH PYRITE. The CHERT contains ghosts of composite and other burrows, some with pyritic fillings.</p> <p>General Description: The age of the core is Cenomanian-Albian.</p>

## SITE 962 HOLE B CORE 11H CORED 93.0 - 93.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC						<p>CHERT</p> <p>Major Lithology: Small fragments of black to clear CHERT were recovered for this interval. Evidence of multiple phases of chert emplacement is shown in the filling of small fractures by clear to opalescent chert. No samples were taken for this interval, and the age is unknown.</p>

## SITE 962 HOLE B CORE 12X CORED 93.3 - 94.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC						<p>CHERT AND PORCELLANITE</p> <p>Major Lithology: Only a few fragments were recovered for this interval which contains dark gray to black CHERT which is rimmed by white PORCELLANITE. Within the CHERT, some fragments of glauconite and recrystallized fossils are present suggesting a replacive origin. No samples were taken at this interval and the age is not known.</p>



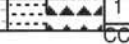
SITE 962 HOLE B CORE 13X

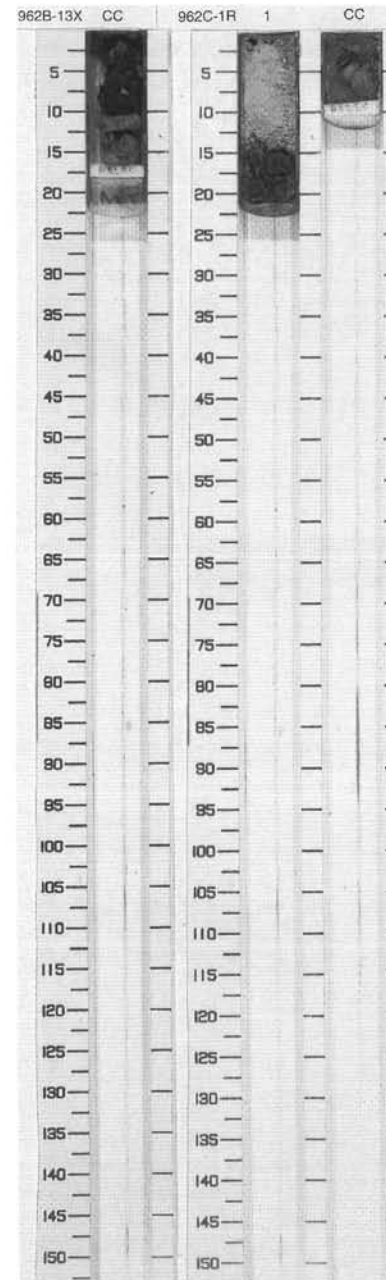
CORED 94.3 - 100.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC				M		CHERT and DOLOMITIC PORCELLANITE
<p>Major Lithologies: Lithologies of this interval were poorly recovered with only a few fragments of black CHERT and brown (5GY 4/2) DOLOMITIC PORCELLANITE. The DOLOMITIC PORCELLANITE contains about 20% authigenic dolomite which is distributed throughout the opaline matrix of the porcellanite. Despite the transformation of opal A to opal CT, this interval is not well lithified and its age is unknown. One sample was taken for paleontology.</p>								

SITE 962 HOLE C CORE 1R

CORED 73.0 - 83.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1 CC		}	X	M S		PALYGORSKITE CLAY, MANGANESE HARDGROUND and GLAUCONITE-PELLET RICH CLAY
<p>Major Lithologies: Drilling breccia comprising 14 cm of bluish, PALYGORSKITE CLAY occurs over a rubble of black, MANGANESE HARDGROUND in Section 1. Section 2 comprises a 3 x 4 cm IRON OXYHYDROXIDE NODULE, yellowish brown, with a black (phosphatic?) rim. Cracks within the nodule are infilled with the same black material. The nodule is embedded in a drilling induced matrix of GLAUCONITE PELLET-RICH CLAY. The age of the core is unknown.</p>								



SITE 962 HOLE C CORE 2R CORED 83.1 - 92.8 mbsf

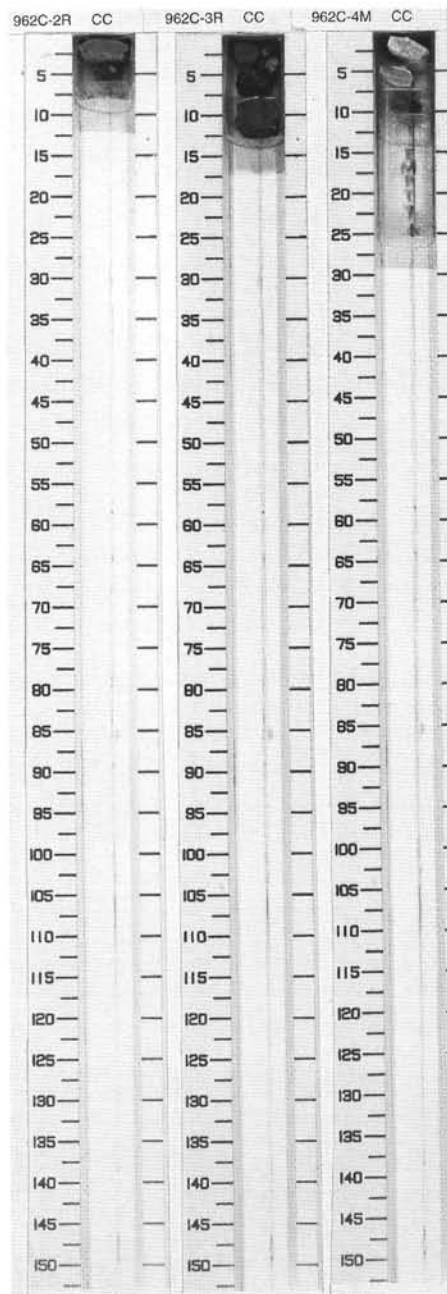
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		C						CHERT
<p>General Description: The core consists of two pieces of CHERT. The first piece is graded and lenticular laminated, and the laminae are disrupted by burrows. The coarser grains are largely replaced radiolarians and rounded quartz grains. The sediment is fractured. The second piece of rock is brownish black in color. The age of the core is not known.</p>								

SITE 962 HOLE C CORE 3R CORED 92.8 - 102.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		C						CHERT
<p>Major Lithology: Greenish gray (5GY 6/1) to dark gray (N3) and brownish black (5YR 2/1) CHERT, thinly banded, mottled or uniform color. Six pieces of CHERT were recovered. Several cavities, 1-5 mm in diameter, are present in two pieces of brownish CHERT.</p> <p>General Description: The age of this highly fractured core is late Albian.</p>								

SITE 962 HOLE C CORE 4M

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		C						PORCELLANITE and CHERT
<p>Major Lithologies: The core consists of small pieces of light greenish gray (5G 8/1) laminated PORCELLANITE with blackish cherty veins, greenish gray (5G 6/1) slightly bedded CHERT, and brownish black (5YR 2/1) massive CHERT showing some fractures. Pyrite fills fractures in greenish gray chert. One smear slide was taken from the porcellanite and one from the greenish gray chert. The age of this interval is not known.</p>								



SITE 962 HOLE D CORE 1R

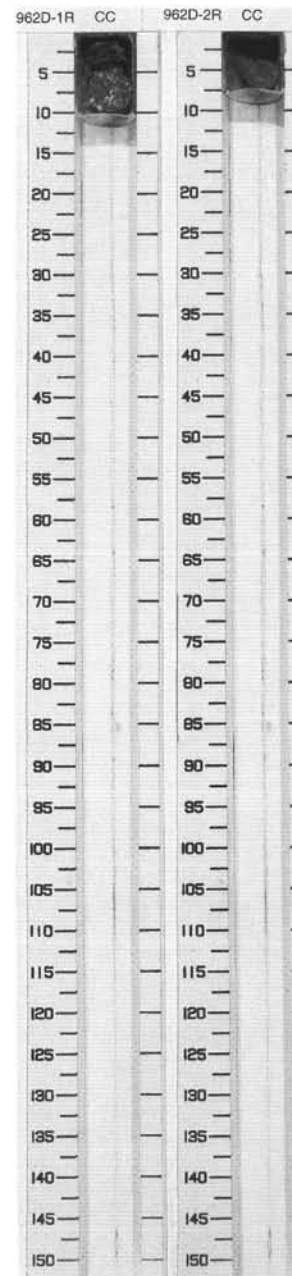
CORED 75.1 - 84.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
								CHERT  Major Lithology: The core consists of two pieces of dark gray (N3) translucent CHERT. The upper one contains some greenish gray (5G 6/1) layer-like lenses of OPAL SPICULITE WITH RADIOLARIANS. The lower piece shows small inclusions of light gray (N8) CHERT. One smear slide was made from the spiculite and a sample taken for paleontology. The age of this interval is not known.

SITE 962 HOLE D CORE 2R

CORED 84.7 - 94.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
								PORCELLANITE and CHERT  Major Lithologies: The core consists of a single fragment of olive black (5Y 2/1) laminated PORCELLANITE interbedded with thin layers of grayish black (N2) CHERT. The sediments show some normal faults and syn-sedimentary deformation.  Minor Lithology: Some parts of the laminated porcellanite contain PORCELLANITE WITH CALCITE, which has sparse nanofossils and foraminifers. Two smear slides were taken from this sediment.  General Description: The age of this interval is unknown.





## SITE 962 HOLE D CORE 3R

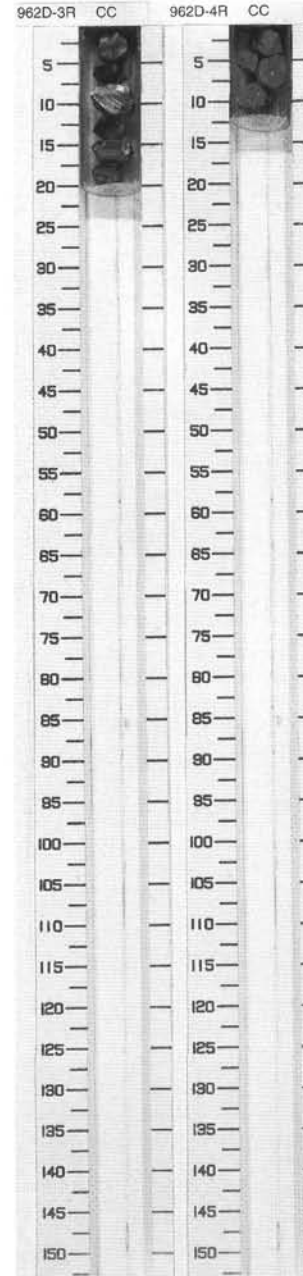
CORED 94.4 - 104.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	▲▲▲▲▲▲▲▲	CC		—		SSS		<p>PORCELLANITE WITH CALCITE and CHERT</p> <p>Major Lithologies: The core consists of fragments of olive black (5Y 2/1) faintly bedded PORCELLANITE WITH CALCITE and laminated, olive gray (5Y 4/1) to massive, olive black (5Y 2/1) CHERT. Laminated chert pieces contain some laminae of dark greenish gray (5GY 4/1) PORCELLANITE WITH CALCITE. Contacts are sharp.</p> <p>Minor Lithology: One clast in the middle part of the core consists of CHERT BRECCIA WITH CALCITE. Clasts include angular fragments of dark olive black (5Y 2/1) chert with calcite dispersed in olive gray (5Y 4/1), fine-grained, calcite-cemented porcellanite matrix. One horizontal, 2-cm-thick, calcite vein cuts the upper, finer grained part of the breccia.</p> <p>General Description: The age of this interval is late Albian.</p>

## SITE 962 HOLE D CORE 4R

CORED 104.1 - 113.7 mbsf




Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC						<p>CHERT</p> <p>Major Lithology: The cores consists of four pieces of dark olive gray to olive black (5 Y 3/2 to 5Y 2/1) CHERT. Faintly laminated bands in three of the pieces contain abundant planktonic foraminifers. Large pores, up to 4 mm in diameter, are lined with whitish minerals. Veins are filled by black translucent chert. The age of the sediment is late Albian.</p>

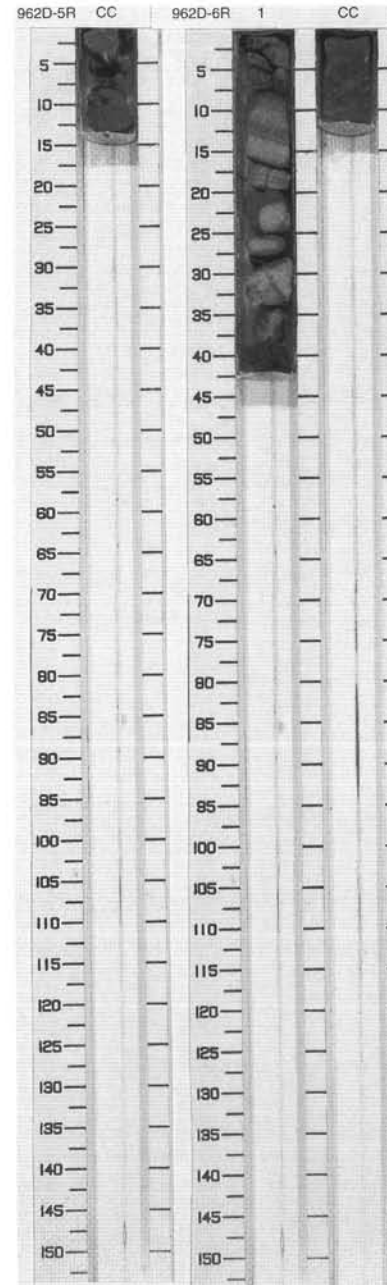


SITE 962 HOLE D CORE 5R CORED 113.7 - 123.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC						<p>PORCELLANITE CHERT</p> <p>Major Lithology: Olive gray (5Y 4/1) to brownish black (5YR 2/1) PORCELLANITE CHERT. Concentric, light olive gray, thin bands are visible in one of two major PORCELLANITE CHERT clasts. Pores, 1 to 5 mm in diameter, some filled with yellowish gray clay, are present in the other piece of PORCELLANITE CHERT.</p> <p>General Description: The age is unknown. The core is highly fractured. A sample was taken for paleontology.</p>

SITE 962 HOLE D CORE 6R CORED 123.4 - 133.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1				T MST	N7	<p>PORCELLANITE CHERT, DOLOMITIC SILTSTONE WITH CLAY and CALCITE-CEMENTED CLAYEY QUARTZ SANDSTONE</p> <p>Major Lithologies: This core comprises grayish black (N2) PORCELLANITE CHERT, brownish gray (5YR 4/1) DOLOMITIC SILTSTONE WITH CLAY and light gray (N7) CALCITE-CEMENTED CLAYEY QUARTZ SANDSTONE. PORCELLANITE CHERT occurs at Section 1, 0-7 cm. Laminated fine-grained CALCITE-CEMENTED CLAYEY QUARTZ SANDSTONE is present at Section 1, 7-38 cm. Hummocky structure is visible in CALCITE-CEMENTED CLAYEY QUARTZ SANDSTONE. Laminated DOLOMITIC SILTSTONE WITH CLAY occurs in Core Catcher. Some burrows are filled with light brownish gray siltstone. Numerous fine calcite veins and normal faults are present in DOLOMITIC SILTSTONE WITH CLAY.</p> <p>General Description: The age is late Albian.</p>



## SITE 962 HOLE D CORE 7R

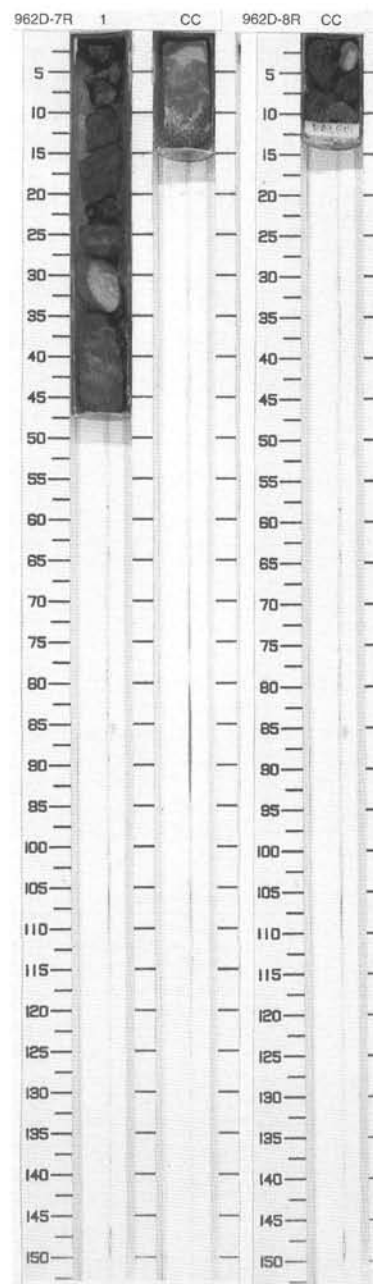
CORED 133.0 - 142.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	late Albian			S T M S	5Y 2/1	<p>PORCELLANITE CHERT, CALCITE-CEMENTED QUARTZ SANDY SILTSTONE and SILTY CLAYSTONE WITH DOLOMITE</p> <p>Major Lithologies: This interval comprises the following fragments: brownish black (5YR 2/1) PORCELLANITE CHERT which may reflect debris collapsed from higher stratigraphic levels; medium light gray (N6) CALCITE-CEMENTED QUARTZ SANDY SILTSTONE; and brownish gray (5YR 4/1) to olive black (5Y 2/1) SILTY CLAYSTONE WITH DOLOMITE. Numerous fine calcite veins and normal faults are developed in CALCITE-CEMENTED QUARTZ SANDY SILTSTONE. SILTY CLAYSTONE WITH DOLOMITE and CALCITE-CEMENTED QUARTZ SANDY SILTSTONE are parallel laminated.</p>

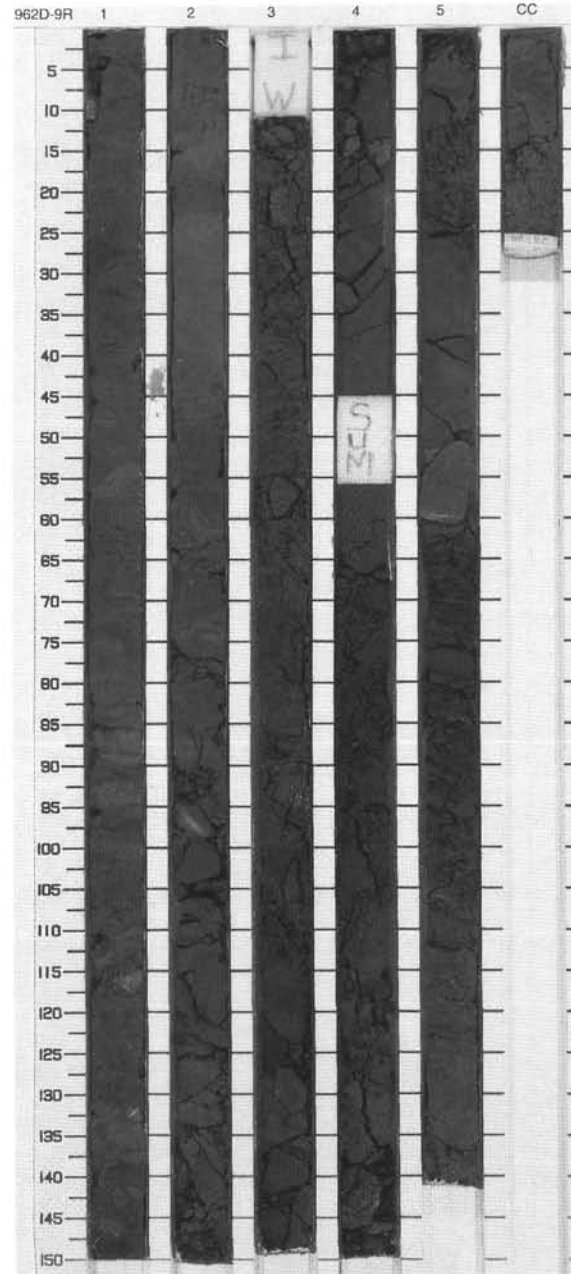
## SITE 962 HOLE D CORE 8R

CORED 142.7 - 152.4 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC						<p>CALCITE-CEMENTED QUARTZ SANDSTONE</p> <p>Major Lithology: Medium gray (N5) CALCITE-CEMENTED QUARTZ SANDSTONE, massive. The core comprises drilling breccia at 0-8 cm, and fine-grained CALCITE-CEMENTED QUARTZ SANDSTONE at 8-11 cm. Pyrite veins occur in CALCITE-CEMENTED QUARTZ SANDSTONE.</p> <p>General Description: The age is late Albian. The core is heavily fractured. A sample was taken for paleontology.</p>

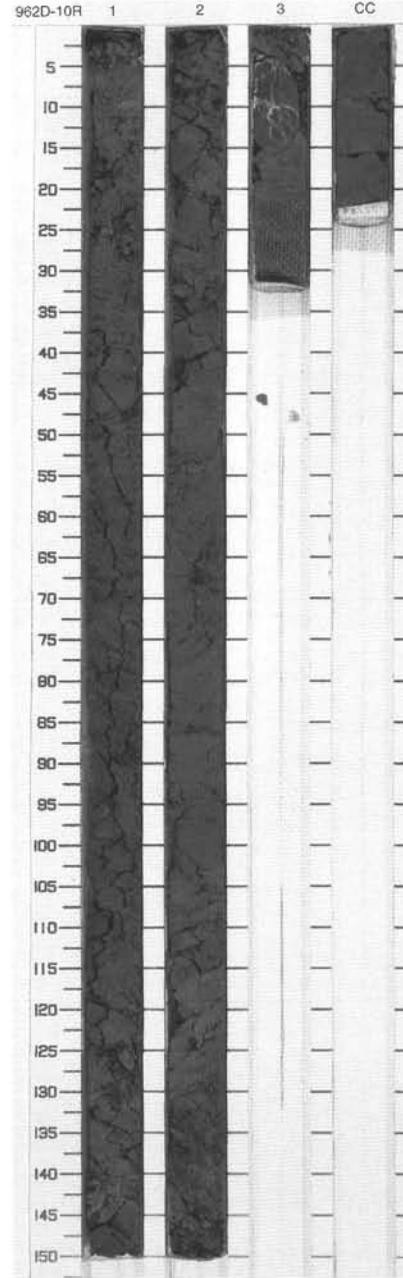


Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Symbol]	1	late Albian	P		S D	5Y 3/2 To 5G 4/1	<p>CLAYEY SANDSTONE, SILTY CLAYSTONE and CLAYSTONE WITH NANNOFOSSILS, MICRITE, AND SPAR CEMENT</p> <p>Major Lithologies: The core consists of an irregular alternation of poorly indurated, dark greenish gray (5G 4/1) CLAYEY SANDSTONE, dark olive gray (5Y 3/2) SILTY CLAYSTONE, and structureless or brecciated, dark olive gray (5Y 2.5/1) CLAYSTONE WITH NANNOFOSSILS, MICRITE, AND SPAR CEMENT. The indurated CLAYEY SANDSTONE in Section 2, 23-44 cm, has a sharp, scoured base, and displays grading above and faint lamination toward the top, which is also sharp. This and most other sandstone beds appear to be the bases of turbidites. The upper parts of the Bouma-sequences have possibly been destroyed by drilling.</p> <p>Minor Lithologies: Very dark gray (5Y 3/1) SILTY CLAYSTONE WITH NANNOFOSSILS occurs scattered as thin laminae in SILTY CLAYSTONE throughout Section 1. Pieces of veined CLAYEY SANDSTONE occur in Sections 1 through 4. A thin, discontinuous layer of black BITUMINOUS CLAYSTONE is intercalated within the graded SILTY CLAYSTONE bed in Section 2, 23-44 cm.</p>
2	[Symbol]	2		P		S S	5G 4/1	
3	[Symbol]	3		P		T I	5Y 2.5/2	
4	[Symbol]	4		P		S D	5Y 2.5/2 To 5Y 3/1	
5	[Symbol]	5				S W	5Y 2.5/2	
CC						M		



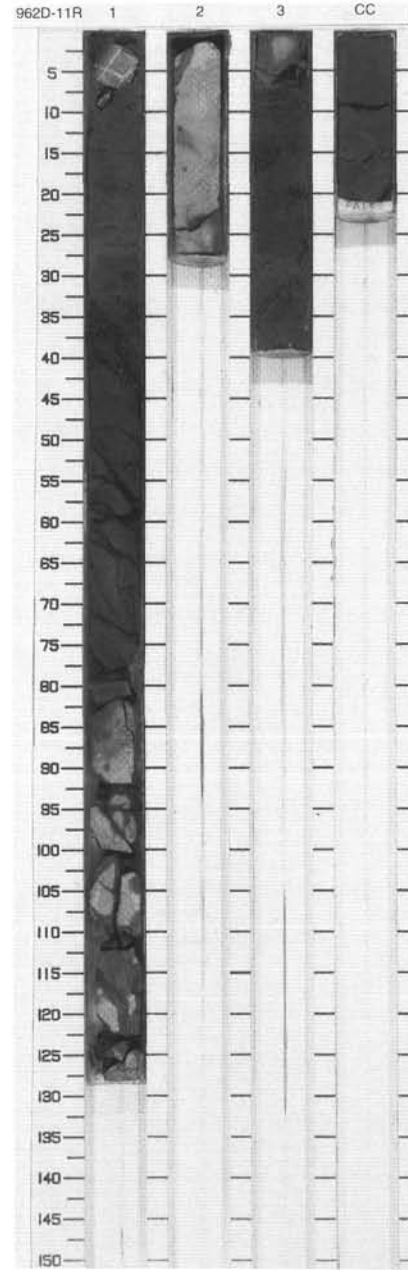
SITE 962 HOLE D CORE 10R CORED 162.0 - 171.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	late Albian	P	XXXX	S	5Y 4/1	CLAYSTONE WITH QUARTZ SILT, MICRITE AND NANNOFOSSILS, CLAYEY SILTSTONE WITH MICRITE AND NANNOFOSSILS and SILTY CLAYSTONE WITH ORGANIC DEBRIS, MICRITE AND NANNOFOSSIL
2	[Pattern]	2		P	XXXX	S S		
3	[Pattern]	3		(P)	Ca	XXXX	S T	5Y 3/1
CC	[Pattern]	CC		P		M		Section 3 and Core Catcher comprise very dark gray (5Y 3/1) SILTY CLAYSTONE WITH ORGANIC DEBRIS, MICRITE, AND NANNOFOSSILS, which is intensely veined. There have been more than one episode of veining, and the veins are filled with calcite. Calcite is also disseminated as a spar cement in the lower part of the core. In addition, all three dominant lithotypes have parallel laminations, which consist of dark gray and very dark gray laminae. They also contain pyrite, which is mostly disseminated, while mud lithoclasts are present in Section 1, 140 cm. Coherent pieces of rocks are steeply dipping in Section 2, where abrupt changes in dip direction occur at intervals 30 cm and 110 cm. There are slickensides in Section 1, and microfaults in Sections 1 to 3.
<p>Major Lithologies:            Sections 1 and 2 consist of dark gray (5Y 4/1) CLAYSTONE WITH QUARTZ SILT, MICRITE, AND NANNOFOSSILS and CLAYEY SILTSTONE WITH MICRITE AND NANNOFOSSILS, respectively.</p> <p>Minor Lithology:            Dark gray laminae comprise CLAYSTONE WITH QUARTZ SILT, ORGANIC DEBRIS, NANNOFOSSILS AND MICRITE. The organic debris content of these laminae is up to 20%.</p>								





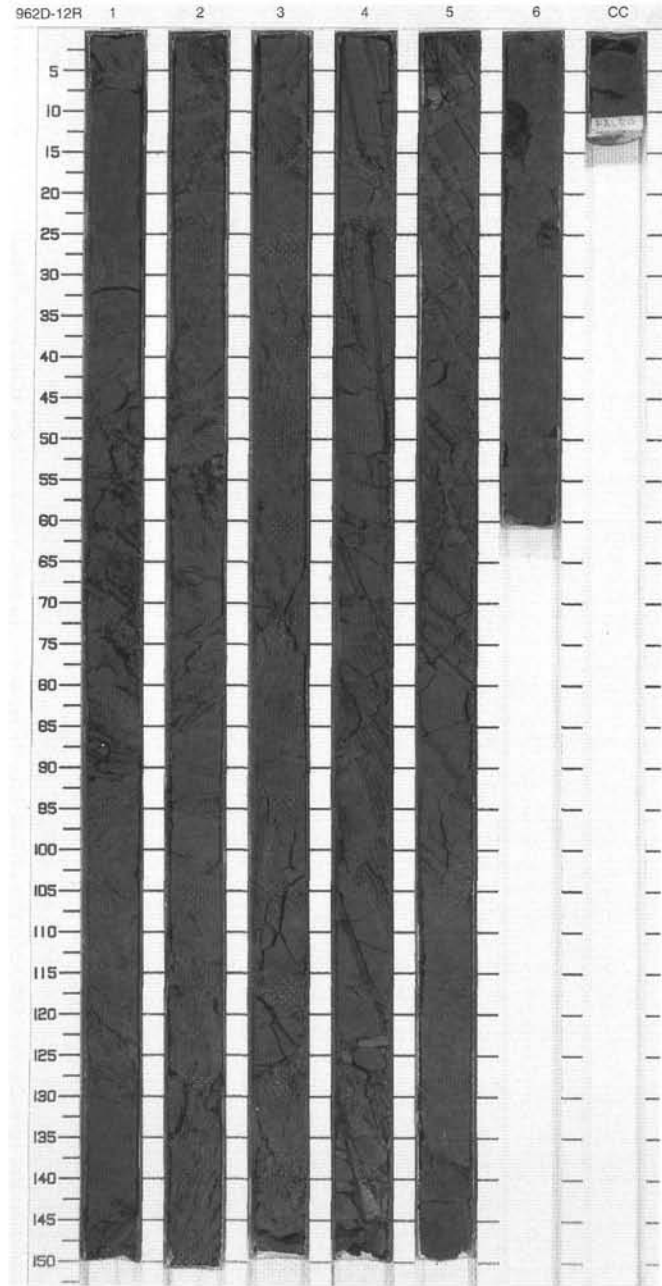
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Albian	Ca P P	X	S S	5Y 3/1	<p>CLAYSTONE WITH FORAMS, NANNOFOSSILS AND MICRITE, CLAYSTONE WITH NANNOFOSSILS AND MICRITE and LIMESTONE</p> <p>Major Lithologies: The dominant sediment is dark brownish gray (5Y 4/1) CLAYSTONE WITH FORAMS, NANNOFOSSILS AND MICRITE grading to slightly darker (5Y 3/1) CLAYSTONE WITH NANNOFOSSILS AND MICRITE. The fine-grained portions are highly disturbed by drilling. Some coherent pieces show soft sedimentary folds and the sediment is overall slightly tectonically sheared. Normal faults are present in Core Catcher. Section 1, 80–130 cm and Sections 2 and 3, 0–7 cm consist of light grayish (5Y 5/1) laminated LIMESTONE. Bedding is nearly vertical.</p> <p>Minor Lithologies: Dark gray (5Y 4/1) laminated SANDSTONE WITH CALCITE AND CLAY and SILTSTONE WITH CLAY, MICRITE AND FORAMS is present in Section 3, 30–35 cm. Calcite fills veins in Section 1, 4–5 and 122–123 cm.</p>
1		2	late Albian	Ca	X	S T	5Y 5/1	
2		3	late Albian	Ca	X	SS M	5Y 4/1	
		CC			X			



SITE 962 HOLE D CORE 12R

CORED 181.3 - 191.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1		D	W	S		<p>CLAYEY DOLOMITE WITH QUARTZ SILT AND PYRITE, MICRITE LIMESTONE WITH NANNOFOSSILS AND CLAY and CLAYEY QUARTZ SILTSTONE WITH MICRITE AND NANNOFOSSILS</p> <p>Major Lithologies: Highly drilling disturbed sediment, with softer, less consolidated or cemented intervals largely churned into drilling induced mud, and more consolidated or cemented intervals highly fractured to brecciated. The softer sediment comprises massive beds of dark olive gray (5Y 3/2) CLAYEY DOLOMITE WITH QUARTZ SILT AND PYRITE, up to 25 cm thick. The partly cemented intervals comprise alternating laminae of dark olive gray MICRITE LIMESTONE WITH NANNOFOSSILS AND CLAY and normally graded, medium gray CLAYEY QUARTZ SILTSTONE WITH MICRITE AND NANNOFOSSILS. Laminae are sub-mm to 8 mm thick. In Sections 4 and 5, these are steeply dipping to vertical. Section 3, 90-126 cm is characterized by fecal pellet-rich beds. Pyrite veins are also present in the core.</p> <p>Minor Lithology: Dark olive gray laminae thicken locally to form beds up to 5 cm thick of MICRITE NANNOFOSSIL LIMESTONE WITH CLAY.</p>
2	[Pattern]	2		Py	W			
3	[Pattern]	3		D	W			
4	[Pattern]	3	late Albian	Py	W	S	5Y 3/2 To N5	
5	[Pattern]	4		...	W	S		
6	[Pattern]	4		...	W	S		
7	[Pattern]	5		...	W			
8	[Pattern]	6		D	W	M		

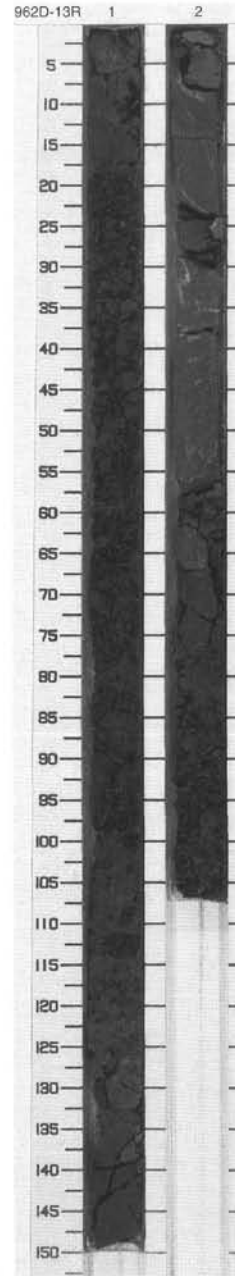


SITE 962 HOLE D CORE 13R

CORED 191.0 - 200.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Albian			S	5GY 2.5/1 To 2.5Y 3/2	<p>NANNOFOSSIL CLAYSTONE WITH DOLOMITE AND PLANT DEBRIS, CLAYEY DOLOMITE WITH NANNOFOSSILS and DOLOMITIC LIMESTONE WITH CLAY</p> <p>Major Lithologies: This interval consists of dark brown (6.2Y 2.5/1), massive NANNOFOSSIL CLAYSTONE WITH DOLOMITE AND PLANT DEBRIS interbedded with medium-gray brown (4Y 3/1) CLAYEY DOLOMITE WITH NANNOFOSSILS and a medium brown (3.8Y 3/1) DOLOMITIC LIMESTONE WITH CLAY. Pyrite and plant debris are distributed throughout the NANNOFOSSIL CLAYSTONE WITH DOLOMITE AND PLANT DEBRIS, which is locally burrowed (e.g., Section 1, 140–150 cm), and is commonly severely brecciated by drilling. Fine parallel laminations are present in the DOLOMITIC LIMESTONE WITH CLAY, which exhibits soft-sediment boudinage (e.g., Section 2, 8–12 cm) and brittle fracturing. Coarse calcite fills fracture veins which, in turn, have been brecciated by deformation and enclosed in NANNOFOSSIL CLAYSTONE WITH DOLOMITE AND PLANT DEBRIS (Section 2, 53 and 75 cm). Beds dip ranges from horizontal (Section 2, 10–22 cm) to vertical (Section 2, 38–55 cm).</p>
2		2						

962D 14R NO RECOVERY



## SITE 962 HOLE D CORE 15R

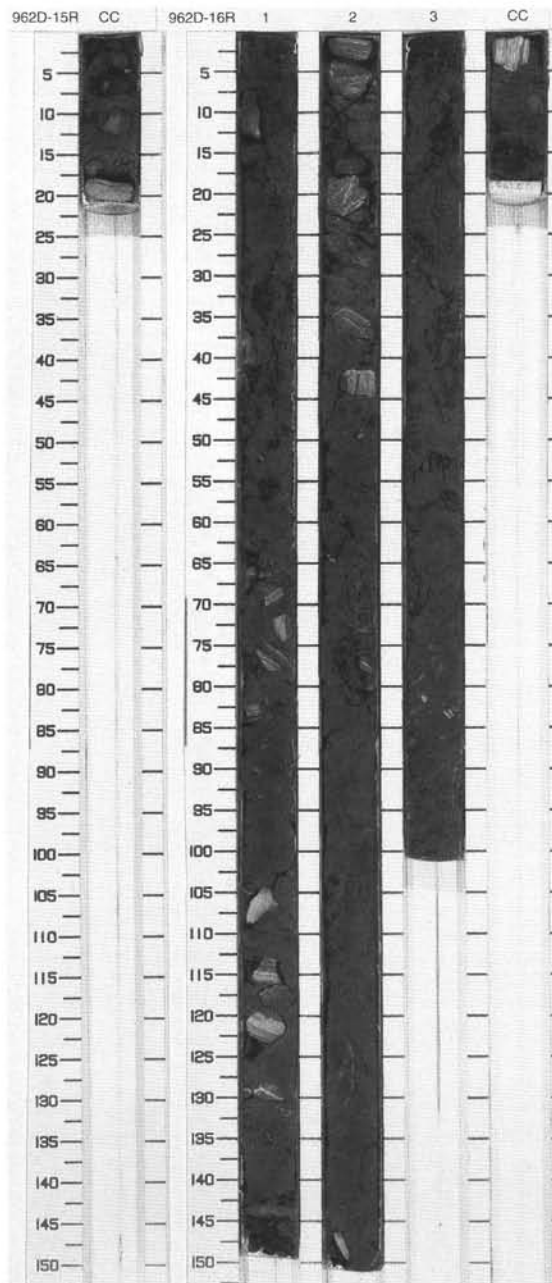
CORED 210.3 - 220.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC				MST		DOLOMITIC LIMESTONE WITH CLAY and SILTY QUARTZ SANDSTONE WITH CALCITE CEMENT  Major Lithology: This interval is represented by isolated fragments of brown DOLOMITIC LIMESTONE WITH CLAY and gray-brown SILTY QUARTZ SANDSTONE WITH CALCITE CEMENT. The SILTY QUARTZ SANDSTONE WITH CALCITE CEMENT contains fine angular grains of metamorphic and igneous quartz and exhibits slight lamination. The age of this interval is late Albian.

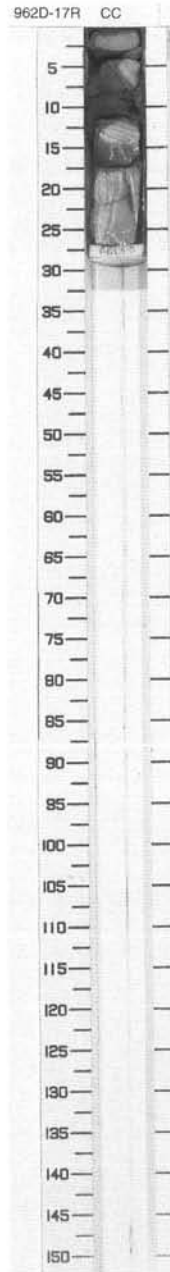
## SITE 962 HOLE D CORE 16R

CORED 220.0 - 229.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1			X	S	N4	SILTSTONE WITH QUARTZ SAND, CLAY AND MICRITE and SANDY SILTSTONE WITH CLAY AND PYRITE  Major Lithologies: Light gray (N7) SILTSTONE WITH QUARTZ SAND, CLAY AND MICRITE and brownish black (5YR 2/1) SANDY SILTSTONE WITH CLAY AND PYRITE are parallel laminated at a mm-scale. Cross laminae are present at Section 2, 40-43 cm and at Core Catcher, 0-5 cm, and are probably due to wave rippling. Both lithologies contain 3%-5% nannofossils and/or micrite.
2		2	late Albian		X	S	5YR 4/1 To N7	
3		3			X	S	N7	Minor Lithology: Brownish gray (5YR 4/1) QUARTZ SILTSTONE WITH DOLOMITE is structureless and contains 20% dolomite rhombs.
4		CC				M		



Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC				M		<p>MICRITIC QUARTZ SANDSTONE and MICRITIC QUARTZ SANDY SILTSTONE</p> <p>Major Lithologies: This interval comprises gray MICRITIC QUARTZ SANDSTONE which grades upwards from cross-stratified sandstone into brown, laminated MICRITIC QUARTZ SANDY SILTSTONE. These sediments occur in normally graded units above a sharp lower contact (Section CC, 17-27 cm). Two generations of fracturing are present, with the first generation of coarse, white prismatic calcite cut by a second generation of sediment and spar filled fractures (Core Catcher, 12-17 cm).</p> <p>General Description: The age of this interval is late Albian.</p>

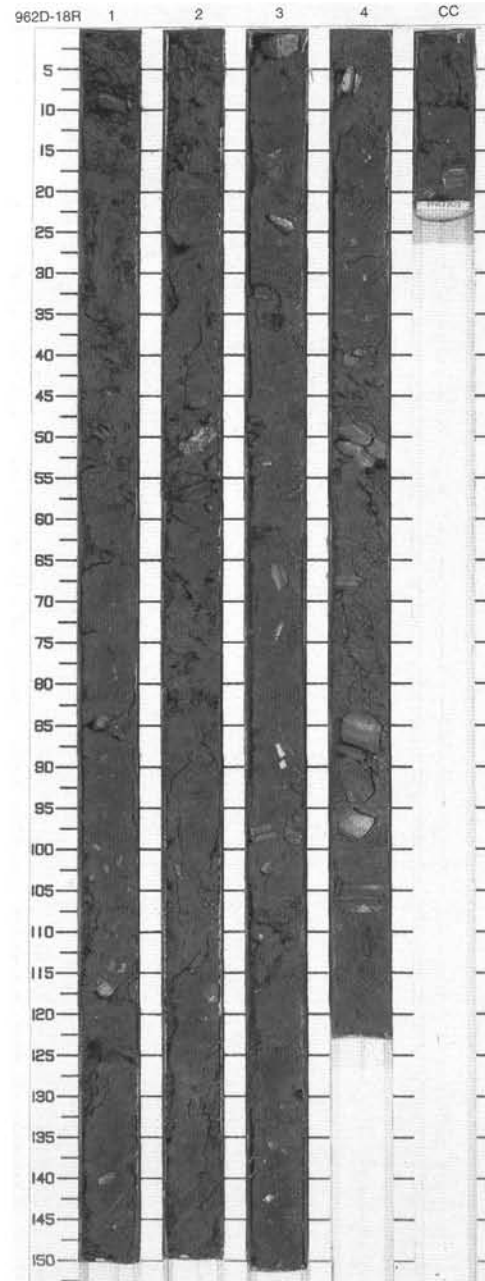




SITE 962 HOLE D CORE 18R

CORED 239.1 - 248.8 mbsf

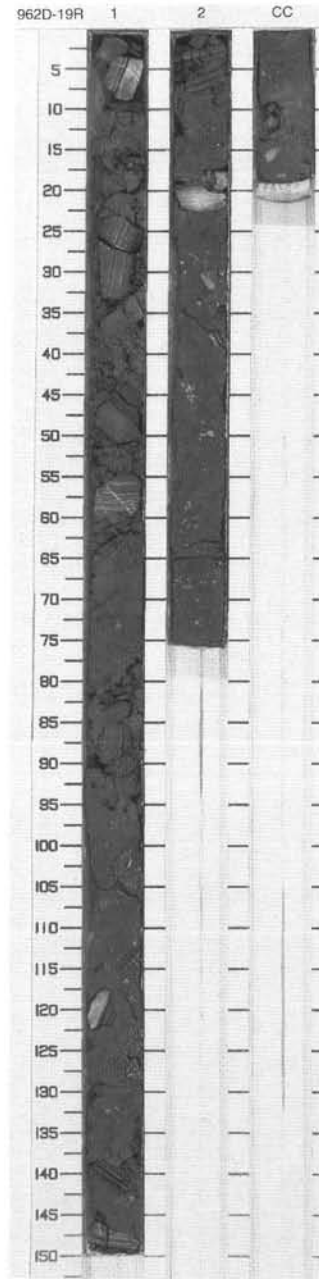
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	late Albian	[Symbol]	[Symbol]	S	5Y 3/2 To 5Y 6/1	<p>CALCITE-CEMENTED CLAYSTONE WITH QUARTZ SILT AND MICRITE and CALCITE-CEMENTED SANDSTONE WITH MICRITE</p> <p>Major Lithologies: The core consists of drilling breccia with coherent pieces of laminated olive gray (5Y 3/2) CALCITE-CEMENTED CLAYSTONE WITH QUARTZ SILT AND MICRITE and horizontally laminated to ripple laminated, fine-grained, light gray (5Y 6/1 to 5GY 6/1) CALCITE-CEMENTED SANDSTONE WITH MICRITE. Section 2, 130-150 cm is more clayey and in Section 4, 90-115 cm and Core Catcher, the sandstone shows small-scale cross-bedding and lenticular bedding seen as isolated ripples. One piece in this interval shows syn-sedimentary brecciation. Calcite veins are present in Section 1, 82-84 cm, Section 2, 50-53 cm, Section 3, 85-90 and 130-132 cm, and in the Core Catcher.</p>
2	[Pattern]	2		[Symbol]	[Symbol]	D		
3	[Pattern]	3		[Symbol]	[Symbol]	D		
4	[Pattern]	4		[Symbol]	[Symbol]	S		
5	[Pattern]	CC		[Symbol]	[Symbol]	M	5Y 6/1 To 5GY 6/1	



SITE 962 HOLE D CORE 19R

CORED 248.8 - 256.4 mbsf

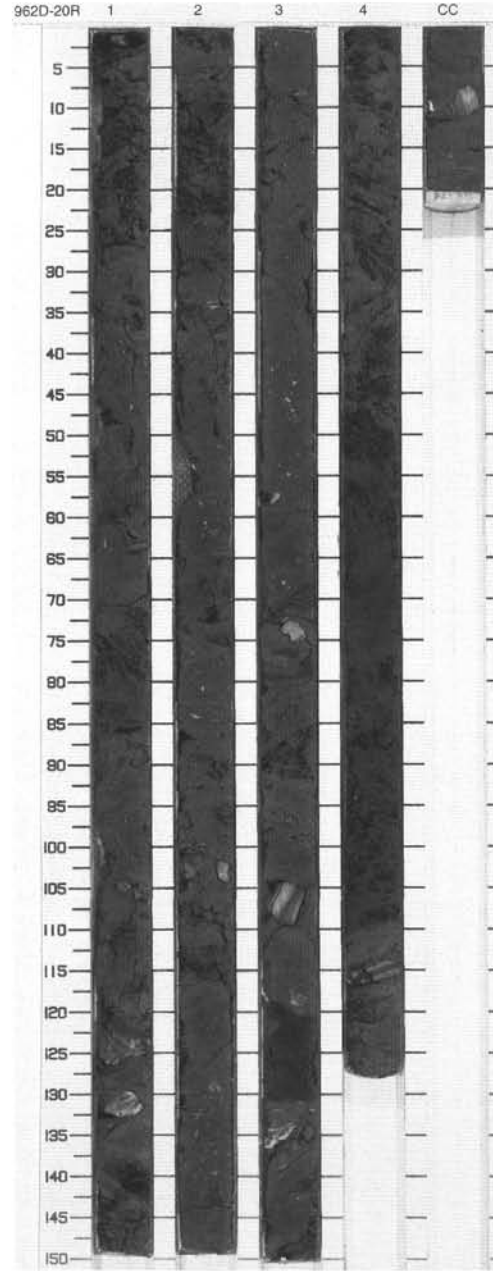
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Albian	(P)                 C <sub>a</sub>                 C <sub>a</sub>		ST D S S S	5Y 6/1 To 5Y 3/2	<p>QUARTZ SANDY LIMESTONE, LIMESTONE WITH CLAY AND DOLOMITE, LIMESTONE and QUARTZ SILTY CLAYSTONE WITH CALCITE</p> <p>Major Lithologies: Light gray (5Y 6/1 to 5GY 6/1) QUARTZ SANDY LIMESTONE alternates with dark brownish gray (5Y 4/1 to 5Y 3/2) LIMESTONE WITH CLAY AND DOLOMITE. The coherent pieces show horizontal lamination and lenticular bedding. In Section 2, 15–22 cm light gray (5Y 6/1) LIMESTONE shows small-scale cross-lamination. The core is slightly brecciated by drilling and fine-grained portions consist of fragments of major lithologies and loose silt and clay with calcite, described as QUARTZ SILTY CLAYSTONE WITH CALCITE according to smear slide.</p> <p>Minor Lithology: DOLOMITE is concentrated along fault plane in Section 1, 50 cm. Calcite fills veins in Section 1, 18–22 and 55–62 cm.</p>
2		2		F                 	XXXXX	S D M		
		CC						



SITE 962 HOLE D CORE 20R

CORED 258.4 - 268.0 mbsf

Meter	Graphic Lith.	Section Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1		~	S		<p>NANNOFOSSIL CLAYSTONE WITH QUARTZ SILT, QUARTZ SILTSTONE WITH CLAY AND OPAQUES, CLAYSTONE WITH QUARTZ SILT, NANNOFOSSILS AND OPAQUES and CALCITE-CEMENTED QUARTZ SILTY SANDSTONE</p> <p>Major Lithologies: This interval comprises medium to dark gray-brown NANNOFOSSIL CLAYSTONE WITH QUARTZ SILT interbedded with medium gray CALCITE-CEMENTED QUARTZ SILTY SANDSTONE, QUARTZ SILTSTONE WITH CLAY AND OPAQUES, and CLAYSTONE WITH QUARTZ SILT, NANNOFOSSILS AND OPAQUES. These lithologies, occurring in graded units, include structureless to rippled coarse sandstones overlain by finely laminated to massive siltstones and claystones. Calcite-filled veins occur locally in this interval. Organic debris and pyrite, concentrated in the silt- and clay-rich lithologies, imparts a darker, brown coloration. Drilling has severely brecciated this interval. A clast of chert, most likely due to downhole contamination, occurs at the top of this core.</p>
2	[Dotted pattern]	2		~	S		
3	[Dotted pattern]	3		~	S	10YR 2/2 To 7.5R N5/0	
4	[Dotted pattern]	4		~	S		
5	[Dotted pattern]	4		~	S		
	[Dotted pattern]	CC		~	M		



SITE 962 HOLE D CORE 21R

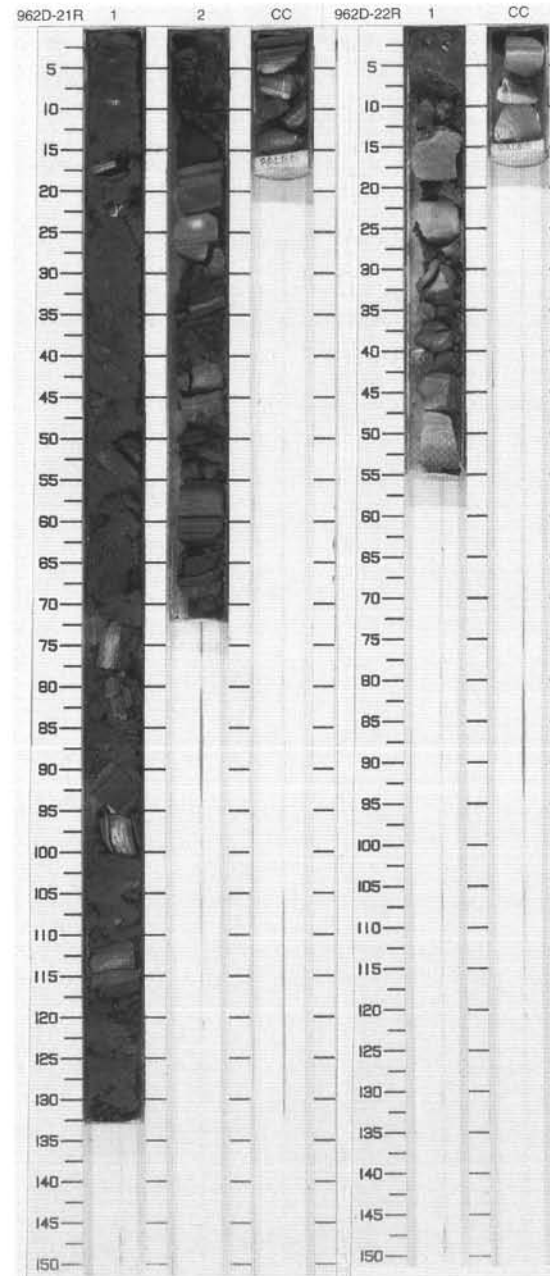
CORED 268.0 - 277.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Albian				10YR 2/2 To 7.5YR N5/0	<p>NANNOFOSSIL QUARTZ SILTY CLAYSTONE and CALCITE-CEMENTED QUARTZ SILTY SANDSTONE</p> <p>Major Lithologies: This interval comprises beds of gray CALCITE-CEMENTED QUARTZ SILTY SANDSTONE which grade upwards to dark brown NANNOFOSSIL QUARTZ SILTY CLAYSTONE. The CALCITE-CEMENTED QUARTZ SILTY SANDSTONE is locally rippled and contains fine-grained angular quartz (Section 2, 22–26 cm). These grade into laminated NANNOFOSSIL QUARTZ SILTY CLAYSTONE which contains abundant planktonic foraminifers. Drilling has severely disturbed this interval with lithified fragments floating in a breccia of claystone.</p>
2		2				MT		

SITE 962 HOLE D CORE 22R

CORED 277.7 - 287.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1				D MT	10YR 4/2	<p>MICRITIC SILTY QUARTZ SANDSTONE and DOLOMITIC SILTY CLAYSTONE WITH MICRITE</p> <p>Major Lithologies: This interval comprises normally graded sequences of medium gray MICRITIC SILTY QUARTZ SANDSTONE which fine upward into finely laminated, brown-gray DOLOMITIC SILTY CLAYSTONE WITH MICRITE. A typical sequence is present in Section 1, 47–54 cm. Coarse sand beds also contain small brown-tan intraclasts of carbonate. Load casts are also present.</p> <p>General Description: The age of this interval is late Albian.</p>



SITE 962 HOLE D CORE 23R

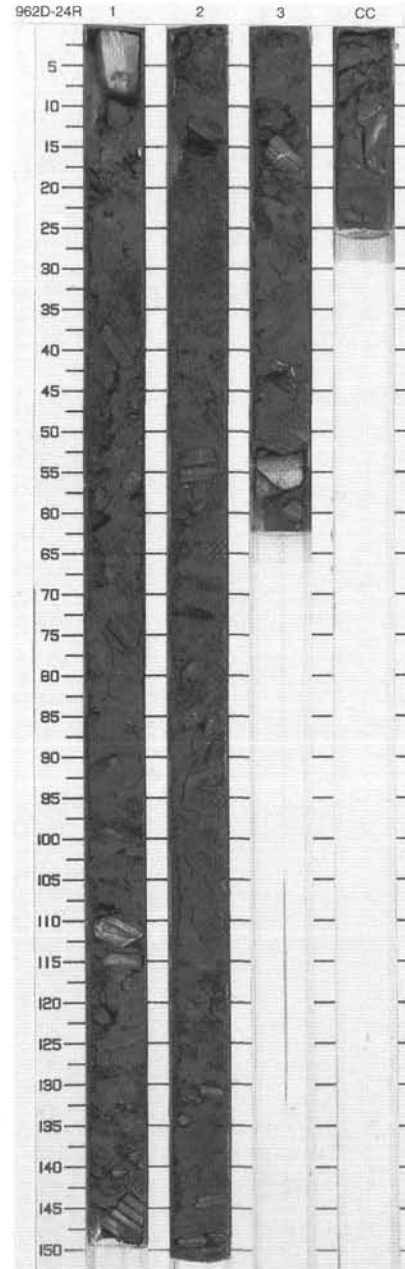
CORED 287.3 - 297.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Albian			S S S S M	5YR 4/1 To N5	<p>LIMESTONE and QUARTZ SILTY LIMESTONE</p> <p>Major Lithologies: The core consists of interbeds of medium gray to brownish gray (N5 to 5YR 4/1 ) LIMESTONE and brownish gray (5YR 4/1) QUARTZ SILTY LIMESTONE. Although both lithotypes are laminated, QUARTZ SILTY LIMESTONE is slightly more massive. LIMESTONE is characterized by an alternation between medium gray and brownish gray laminae, with the latter being richer in quartz and organic matter. Beds are steeply dipping at some horizons, e.g., Section 1, 78–84 and 122–129 cm, and the Core Catcher. There is usually an upward gradation from parallel laminated beds to cross-laminated beds. Numerous, thin veins are filled with calcite, while slickensides occur in Section 1, 62–65 cm.</p> <p>Minor Lithology: In Section 1, 52–59 cm, limestone with undulose bedding is cut by a 5-mm-wide fracture, which is filled with MICRITIC LIMESTONE.</p>



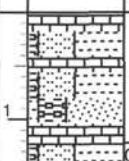




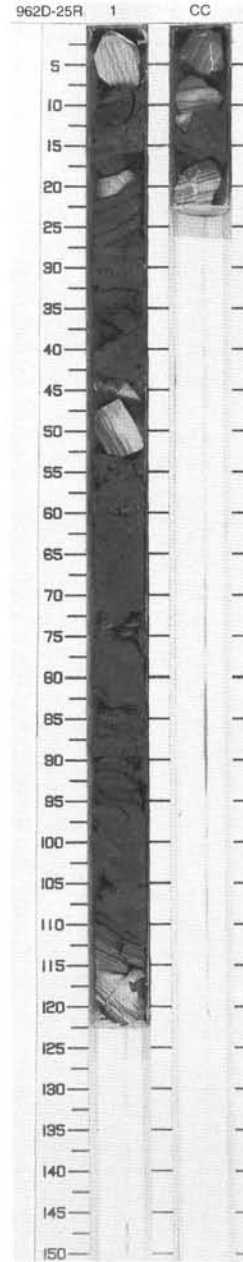
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Graphic Lithology]	1	late Albian	[Structure]	[Disturb]	S	5Y 4/1	<p>CLAYEY LIMESTONE and CLAYSTONE WITH QUARTZ SILT</p> <p>Major Lithologies: The core consists of two dominant lithologies: finer grained CLAYSTONE WITH QUARTZ SILT and coarser, often laminated CLAYEY LIMESTONE. Both are dark olive gray (5Y 4/1). The contact between the two lithologies is obscured by severe drilling disturbance.</p> <p>Minor Lithologies: Pieces of medium gray (N5) cross-bedded CALCITE-CEMENTED CLAYEY SILTSTONE are scattered throughout the core. Pieces of very dark olive gray to black CLAYSTONE WITH ORGANIC DEBRIS occur in Section 2, 71-73 cm and in the Core Catcher, 7-9 cm.</p>
2	[Graphic Lithology]	2		[Structure]	[Disturb]	S		
3	[Graphic Lithology]	3		[Structure]	[Disturb]	S		
		CC				D		
						M		



SITE 962 HOLE D CORE 25R

CORED 302.0 - 306.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Albian			S S S M	5Y 4/1 To 5Y 6/1	<p>QUARTZ SILTY CLAYSTONE and CALCITE-CEMENTED SANDSTONE WITH CLAY AND MICRITE</p> <p>Major Lithologies: The dominant lithology is dark gray (5Y 4/1) massive to laminated QUARTZ SILTY CLAYSTONE interbedded with laminated to lenticular-bedded medium dark gray (N4) to slightly brownish (5Y 3/2) CALCITE-CEMENTED SANDSTONE WITH CLAY AND MICRITE.</p> <p>Minor Lithology: The major lithologies are interbedded with light gray (5Y 6/1) LIMESTONE seen as coherent pieces in Section 1, 1-6 cm, 47-53 cm, 111-123 cm, and Core Catcher, 6-11 cm, 18-22 cm. Limestones show lenticular bedding and horizontal lamination. Individual, 12-cm-thick, fining-upward sequence is present in lower part of the Section 2 showing a transition from lenticular and laminated limestones to finely laminated dark gray claystones. Calcite fills veins in Section 1, 0-5 cm and Core Catcher, 18-22 cm.</p>



SITE 962 HOLE D CORE 26R

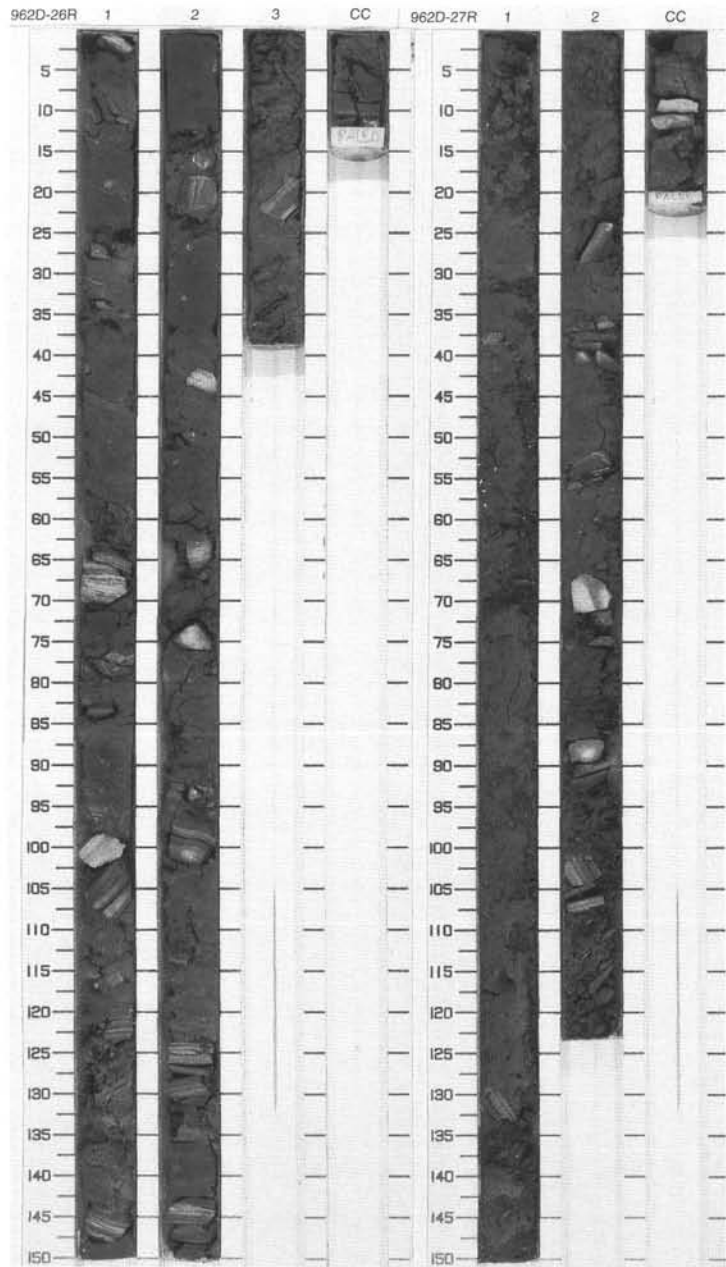
CORED 306.6 - 311.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Albian	↑ F     	XXX	S	10YR 3/2 To N5	<p>CLAYEY SILTSTONE WITH CALCITE CEMENT, CALCITE-CEMENTED CLAYEY SILTSTONE and SILTY CLAYSTONE WITH CALCITE CEMENT</p> <p>Major Lithologies: The core consists of interbeds of three major lithologies: 1) finely laminated to massive, dark grayish brown (10YR 3/2) CLAYEY SILTSTONE WITH CALCITE CEMENT; 2) finely laminated to rippled, dark gray to medium gray (N4 to N5) CALCITE-CEMENTED CLAYEY SILTSTONE; and 3) massive, dark gray (5Y 4/1) SILTY CLAYSTONE WITH CALCITE CEMENT. Fining-upward units occur in some horizons. Numerous, thin calcite-filled veins are present.</p> <p>Minor Lithologies: The major lithologies are sometimes interbedded with gray (N6) LIMESTONE, which is also finely laminated. Massive, grayish brown (10YR 3/2) CLAYEY DOLOMITE is present at the base of Section 2.</p>
2		2	late Albian	↑ F     	XXX	S D S T		
3		3	late Albian	↑ F     	XXX	S M		

SITE 962 HOLE D CORE 27R

CORED 311.3 - 316.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Albian	..         	XXX	S	5Y 3/2	<p>SILTY SANDSTONE WITH MICRITE, CLAYSTONE WITH MICRITE AND NANNOFOSSILS and DOLOMITIC CLAYEY SILTSTONE WITH MICRITE</p> <p>Major Lithologies: Olive gray (5Y 3/2) to medium gray (N5), massive to graded, rippled, and finely laminated SILTY SANDSTONE WITH MICRITE, alternate with olive gray, laminated MICRITE CLAYSTONE WITH NANNOFOSSILS and DOLOMITIC CLAYEY SILTSTONE WITH MICRITE. Drilling disturbance is severe, with solid clasts of the first dominant lithology in a drilling induced matrix of the latter two lithologies.</p>
2		2	late Albian	..         	XXX	MS		



## SITE 962 HOLE D CORE 28R

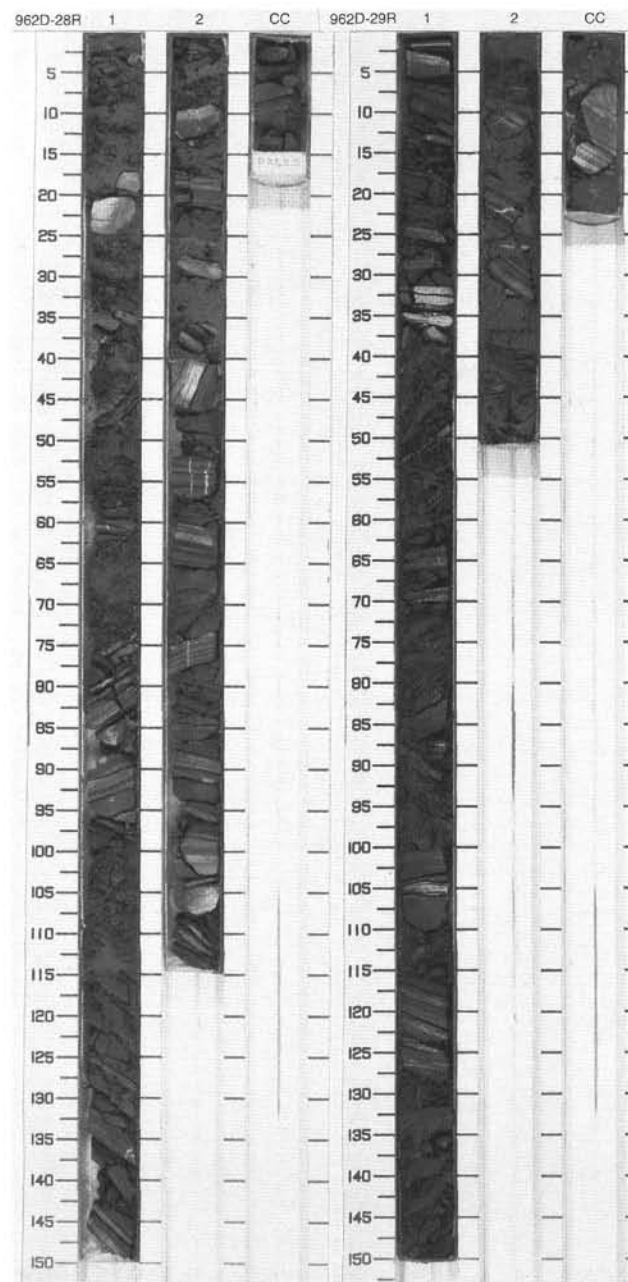
CORED 316.3 - 326.0 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Albian			S S	5YR 2/1	<p>MICRITIC QUARTZ SANDY SILTSTONE and QUARTZ SILTY CLAYSTONE WITH NANNOFOSSILS AND DOLOMITE</p> <p>Major Lithologies: Brownish black (5YR 2/1) MICRITIC QUARTZ SANDY SILTSTONE and QUARTZ SILTY CLAYSTONE WITH NANNOFOSSILS AND DOLOMITE are parallel laminated (mm scale). Cross lamination, due to wave ripple, is visible at Section 1, 90 and 140 cm and Section 2, 40, 51, and 61 cm. Small-scaled load casts are present at Section 2, 27 and 97 cm. Some burrows occur at Section 1, 87 cm and Section 2, 70 and 89 cm.</p>
2		2						

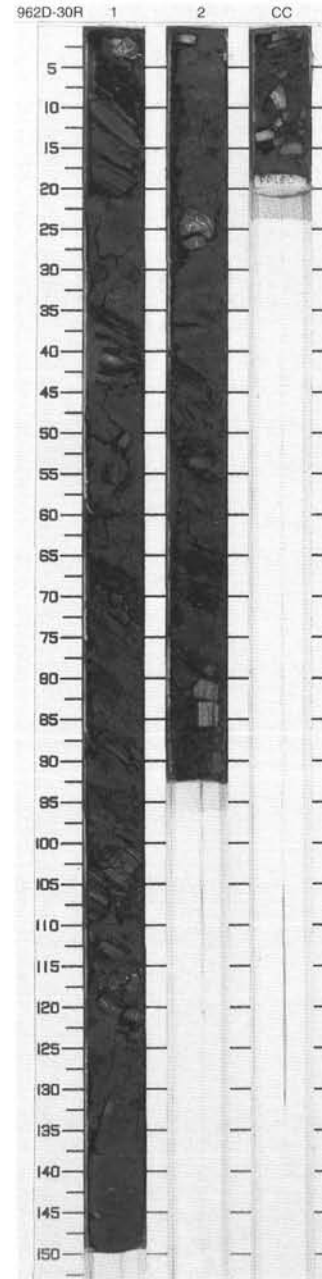
## SITE 962 HOLE D CORE 29R

CORED 326.0 - 335.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Albian			S S	10YR 2/2 To 7.5R N2.5/0	<p>LIMESTONE WITH QUARTZ SAND and QUARTZ SILTY CLAYSTONE WITH MICRITE</p> <p>Major Lithologies: This interval comprises medium gray LIMESTONE WITH QUARTZ SAND to brown gray QUARTZ SILTY CLAYSTONE WITH MICRITE which occur in graded and laminated sequences. The LIMESTONE WITH QUARTZ SAND contains small scale ripples which are underlain and overlain by laminated QUARTZ SILTY CLAYSTONE WITH MICRITE. Pyrite is disseminated throughout both lithologies; however, it is more abundant in the QUARTZ SILTY CLAYSTONE WITH MICRITE which also contains some authigenic dolomite. Planktonic foraminifers are present within the finer grained, QUARTZ SILTY CLAYSTONE WITH MICRITE. The upper part of the Core Catcher is slumped.</p>
2		2						

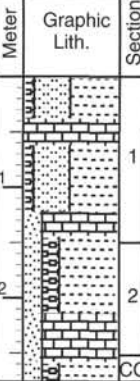
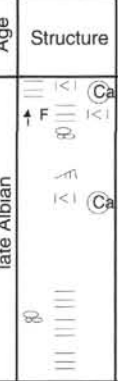






Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Dotted pattern]	1	late Albian	[Horizontal lines]	[X pattern]	S	N5	QUARTZ DOLOMITE SILTSTONE WITH NANNOFOSSILS and MICRITE QUARTZ SILTSTONE  Major Lithologies: Brownish black (5YR 2/1) QUARTZ DOLOMITE SILTSTONE WITH NANNOFOSSILS is structureless, and medium gray (N5) MICRITE QUARTZ SILTSTONE is parallel laminated (mm-scale). Cross-lamination, probably due to wave ripple, is visible at Section 1, 12-19 cm. Small-scale load casts are present at Section 2, 80-92 cm. Calcite veins occur at Section 2, 22-25 cm. MICRITE QUARTZ SILTSTONE becomes sandy at Section 2, 22-25 cm and at Core Catcher, 0-20 cm. MICRITE QUARTZ SILTSTONE is interbedded with QUARTZ DOLOMITE SILTSTONE WITH NANNOFOSSILS.
2	[Dotted pattern]	2				S		
		CC				M	N7	



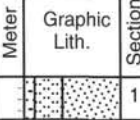
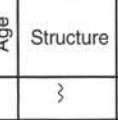

## SITE 962 HOLE D CORE 31R

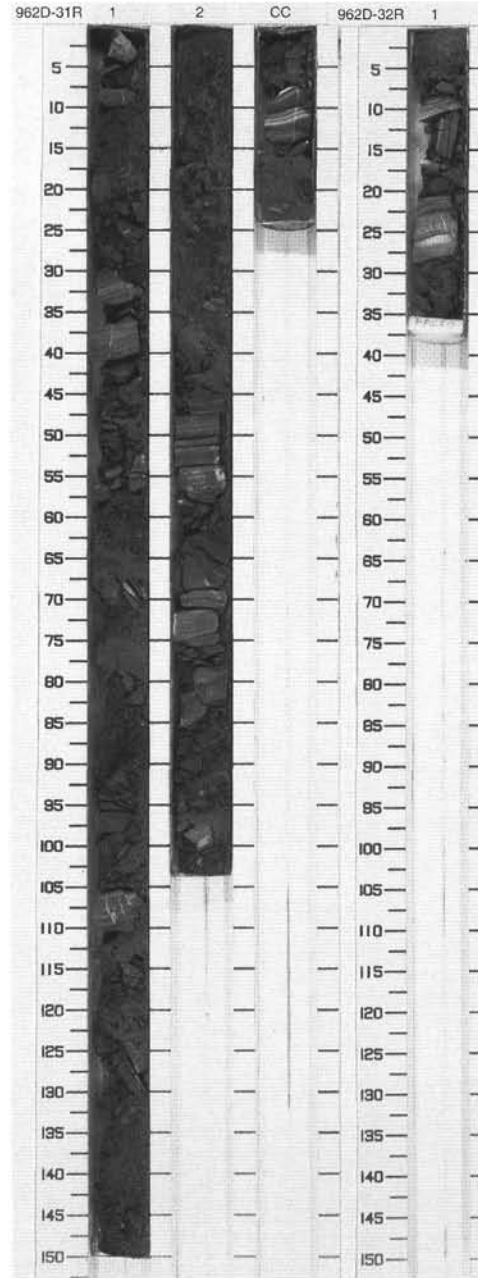
CORED 345.3 - 354.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Albian			S	10YR 3/1 To 5Y 6/1	<p>QUARTZ SILTY CLAYSTONE WITH MICRITE, CLAYSTONE WITH QUARTZ SILT AND MICRITE LIMESTONE and LIMESTONE WITH QUARTZ</p> <p>Major Lithologies: The dominant lithology is massive to laminated brownish gray (10YR 3/1) QUARTZ SILTY CLAYSTONE WITH MICRITE which grades into CLAYSTONE WITH QUARTZ SILT AND MICRITE that is highly disturbed by drilling. These are interbedded with coherent pieces of laminated to lenticular-bedded gray (5Y 6/1) LIMESTONE to LIMESTONE WITH QUARTZ. Fining-upward succession is present in Section 1, 35–45 cm.</p> <p>Minor Lithologies: Grayish (N4) laminated CALCITE-CEMENTED SANDSTONE and CALCITE-CEMENTED SILTSTONE occur as thin intercalations in Section 1, 21–23 and 125–13 cm, and Section 2, 85–90 cm. Calcite fills veins in Section 1, 5–8, 35–42, and 105–110 cm.</p>
2		2				S		
CC		CC				M		

## SITE 962 HOLE D CORE 32R

CORED 354.9 - 364.6 mbsf

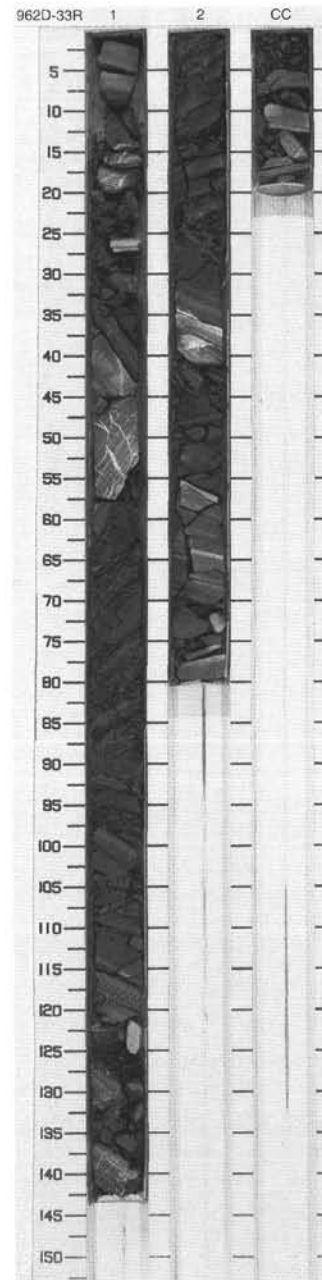
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1				M	5Y 3/2	<p>SILTY SANDSTONE WITH MICRITE and SILTY CLAYSTONE WITH MICRITE</p> <p>Major Lithologies: Alternately laminated and rippled, olive gray (5Y 3/2) to medium gray (N5) SILTY SANDSTONE WITH MICRITE to SILTY CLAYSTONE WITH MICRITE fines upward. Calcite veins throughout.</p> <p>General Description: The age is late Albian.</p>



Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	late Albian		T		5Y 4/1 To 10Y 4/1	LIMESTONE WITH QUARTZ SAND, CLAYSTONE WITH MICRITE, SILTY LIMESTONE and DOLOMITIC CLAYSTONE WITH NANNOFOSSILS
2		2			S			
		CC			M			

Major Lithologies:  
 This interval comprises graded sequences of: 1) gray LIMESTONE WITH QUARTZ SAND overlain by; 2) gray to brown LIMESTONE; and then 3) a dark brown, massive DOLOMITIC CLAYSTONE WITH MICRITE.

Sequences range in thickness from 10 to 50 cm, and may not contain all of these lithologies. Cross-laminated, rippled beds are present only within the LIMESTONE WITH QUARTZ SAND. Fine laminations are present within the LIMESTONE, which mark slight variations in the abundance of carbonate versus sand. Scoured bases to these sequences are present at Section 1, 52 cm and Section 2, 15 and 60 cm, but are not always visible, with transitions sometimes indicated by thin beds of LIMESTONE WITH QUARTZ SAND. Rippled, cross-laminated coarser lithologies occasionally exhibit syn-sedimentary convolution of bedding, such as at Section 1, 40-45 cm. The calcareous, micritic component of these lithologies includes nannofossils and structureless microcrystalline carbonate. Dolomite appears to be diagenetic with silt-sized rhombs distributed within claystones. Calcite-filled veins are locally present. Section 1, 15 and 130 cm. A massive to laminated SILTY CLAYSTONE WITH NANNOFOSSILS is present at Section 1, 65-100 cm, which contains a minor amount of zeolite. Drilling has produced significant fracturing of this interval, but the sequence of lithologies is still well represented.



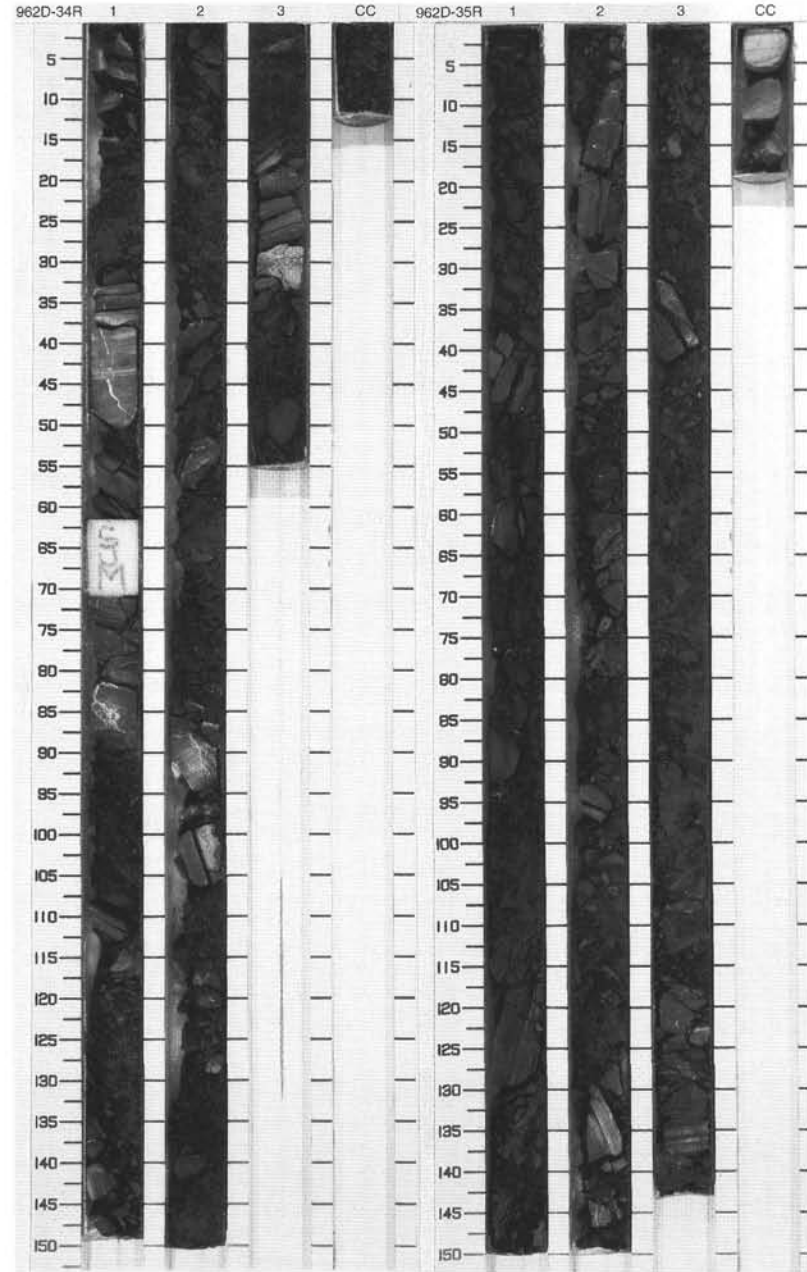


SITE 962 HOLE D CORE 34R CORED 369.3 - 374.3 mbsf

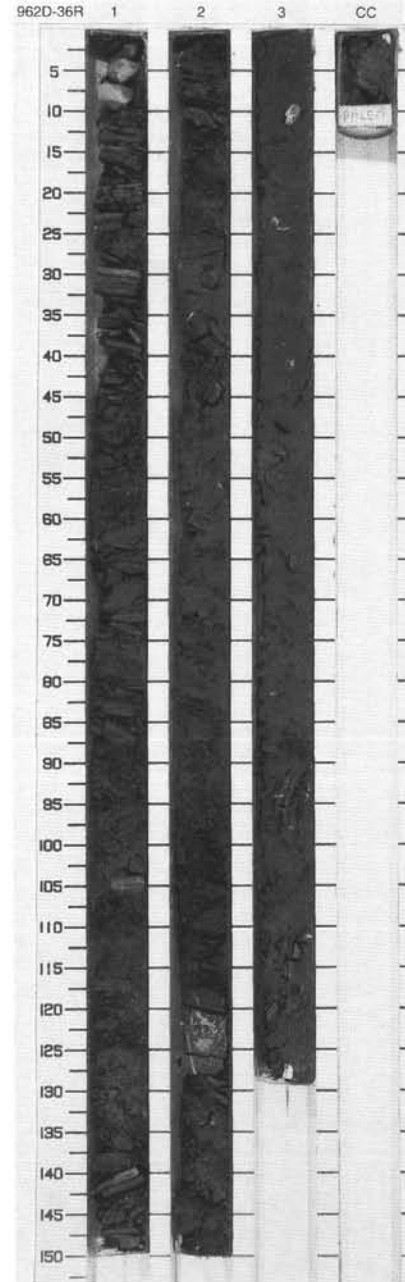
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	late Albian	[Symbol]	[Symbol]		5Y 4/2 To N5	<p>DOLOMITIC MICRITIC LIMESTONE WITH CLAY and CLAYEY MICRITIC DOLOMITIC SILTSTONE WITH NANNOFOSSILS</p> <p>Major Lithologies: This core comprises fining-upward sequences composed of coarser rippled DOLOMITIC MICRITIC LIMESTONE WITH CLAY and finer laminated CLAYEY MICRITIC SILTSTONE WITH NANNOFOSSILS. The dolomite does not appear detrital (i.e., rounded or abraded) in smear slides, and is presumably authigenic. Brecciated zone occurs in Section 1, and is cemented by calcite. Calcite-filled veins occur throughout the core.</p>
2	[Pattern]	2		[Symbol]	[Symbol]	S		
3	[Pattern]	3		[Symbol]	[Symbol]	M S		

SITE 962 HOLE D CORE 35R CORED 374.3 - 383.9 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Pattern]	1	late Albian	[Symbol]	[Symbol]		5Y 2.5/1 To 10Y 5/1	<p>CLAYEY LIMESTONE and CALCITE-CEMENTED CLAYSTONE</p> <p>Major Lithologies: This core comprises very dark olive gray (5Y 3/1), sometimes faintly laminated, CLAYEY LIMESTONE with some pieces displaying a transition into slightly darker (5Y 2.5/1), structureless CALCITE-CEMENTED CLAYSTONE.</p> <p>Minor Lithologies: Several larger pieces of fine-grained, olive gray to gray (5Y 5/1 to N5), CLAYEY SANDSTONE WITH CALCITE CEMENT display parallel, cross, and wavy lamination throughout the core. The coarsest parts of this lithology are faintly graded. Calcite-filled veins are common in these pieces. Grayish black (N2), structureless CLAYSTONE WITH CALCITE CEMENT rarely occurs, but might constitute a significant part of the drilling flour.</p>
2	[Pattern]	2		[Symbol]	[Symbol]	S		
3	[Pattern]	3		[Symbol]	[Symbol]	D		
4	[Pattern]	3		[Symbol]	[Symbol]	M		



Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Lithology symbol]	1	late Albian	[Lithology symbol]	[Disturb symbol]	S	10YR 3/1 To 5Y 5/1	<p>CLAYSTONE WITH QUARTZ SILT AND MICRITE and LIMESTONE WITH QUARTZ SILT</p> <p>Major Lithologies:                      Massive to laminated dark gray (10YR 3/1) CLAYSTONE WITH QUARTZ SILT AND MICRITE alternates with more coherent, thin intervals of laminated to lenticular bedded gray (5Y 5/1) to dark gray (5Y 4/1) LIMESTONE WITH QUARTZ SILT. Massive claystones are abundant especially in Section 2. Fining-upward interval is present in Section 2, 110–120 cm.</p> <p>Minor Lithology:                      Thin interbeds of laminated grayish (N4) CALCITE-CEMENTED SANDSTONE occur in Section 1, 22–24, 140–143, and 145–149 cm. Calcite fills veins in Section 1, 30–35 and 103–105 and Section 2, 120–127 cm.</p>
2	[Lithology symbol]	2		[Lithology symbol]	[Disturb symbol]	S	10YR 3/1	
3	[Lithology symbol]	3		[Lithology symbol]	[Disturb symbol]	D	5Y 5/1	
4	[Lithology symbol]	3		[Lithology symbol]	[Disturb symbol]	M	10YR 3/1	



SITE 962 HOLE D CORE 37R CORED 388.5 - 393.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	[Graphic Lith. 1]	1	late Albian	[Structure 1]	[Disturb 1]	S S D S M	10YR 3/1 To 10YR 4/1	<p>CLAYEY LIMESTONE WITH ORGANIC DEBRIS, DOLOMITIC LIMESTONE WITH QUARTZ SILT and CLAYEY DOLOMITE WITH MICRITE</p> <p>Major Lithologies: This core consists chiefly of well-laminated, very dark gray (10YR 3/1) CLAYEY LIMESTONE WITH ORGANIC DEBRIS, with thin interbeds of massive to faintly laminated, gray (N5) DOLOMITIC LIMESTONE WITH QUARTZ SILT. These horizons are steeply dipping. Massive, dark gray (10YR 4/1) CLAYEY DOLOMITE WITH MICRITE occurs in Section 1, and Section 2, 80–90 cm. Calcite-filled fractures and veins are common in the core. In Section 1, 116–130 cm and Section 3, 130–136, there is intense fracturing and slight brecciation. Undulose lamination due to soft-sedimentary deformation is present mainly in the steeply dipping horizons of the core.</p> <p>Minor Lithology: A piece of BRECCIA is present in Section 1, 0–15 cm. It consists of clasts of the three major lithologies in a calcite matrix. It is characterized by many veins and fractures.</p>
2	[Graphic Lith. 2]	2		[Structure 2]	[Disturb 2]			
3	[Graphic Lith. 3]	3		[Structure 3]	[Disturb 3]			
4	[Graphic Lith. 4]	4		[Structure 4]	[Disturb 4]			
5	[Graphic Lith. 5]	5		[Structure 5]	[Disturb 5]			

