SITE 755 HOLE A CORE 1R CORED INTERVAL 0-7.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	*Globorotalia truncatulinoides*	CN13	Barren		not studied	ϕ=68.2 ρ=62.7 ● 1.60 ● 1.67 ● 96.6 ● 96.0		1	0.5				*
	A/G	A/G						1	1.0				
								2					
								3					*
								4					*
								5					
								CC					

LITHOLOGIC DESCRIPTION

FORAMINIFER NANNOFOSSIL OOZE WITH MICRITE, FORAMINIFER NANNOFOSSIL OOZE

The core is moderate to very soupy.

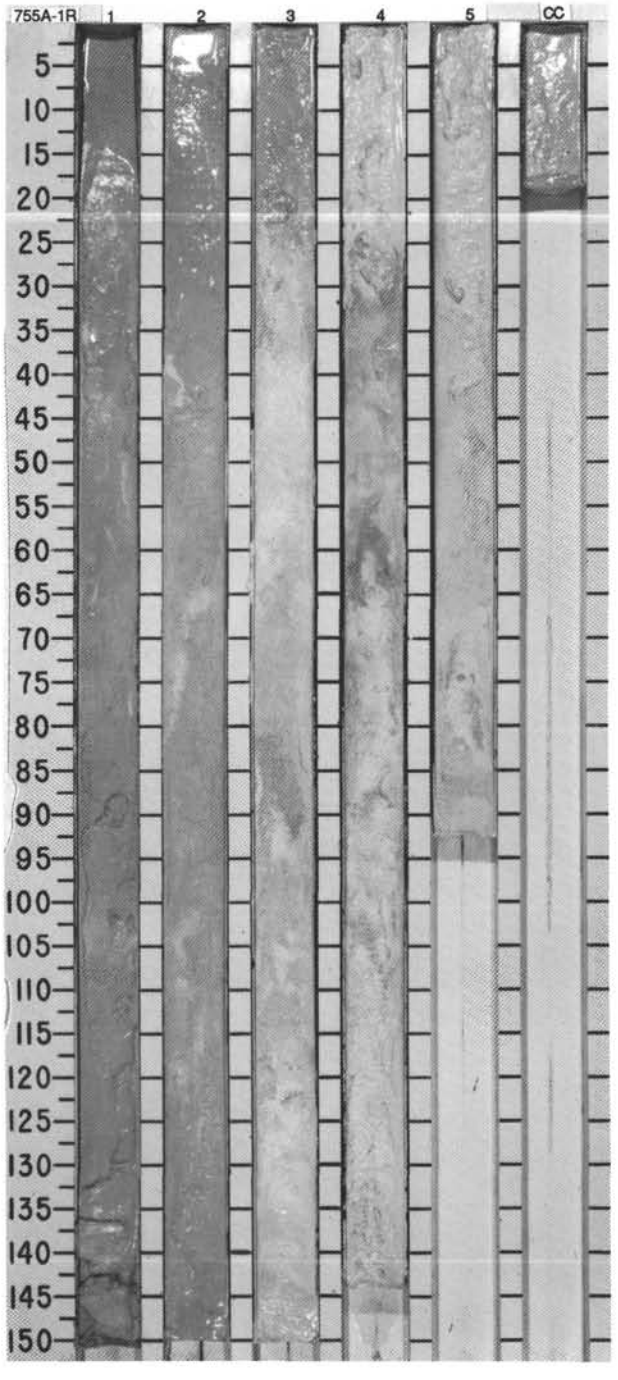
Major lithology: FORAMINIFER NANNOFOSSIL OOZE, FORAMINIFERAL NANNOFOSSIL OOZE with MICRITE. The color grades from light gray (10YR 7/2) in Sections 1 and 2 to white (10YR 8/2) in Section 4 to a very pale brown (10YR 8/3, or 10YR 7/3) in Section 5 and the CC. White (10YR 8/2) and pale brown (10YR 6/3) disturbed and distorted mottles occur throughout core. *The core is otherwise very homogeneous.*

Minor lithology: Nannofossil ooze with foraminifers, light gray (10YR 7/2) with white (10YR 8/2) disturbed and distorted mottles in Section 3, otherwise this section is very homogeneous.

Grain size: The average grain size for Section 1, 60 cm is 79 μm; Section 3, 120 cm, is 38 μm and for Section 4, 40 cm is 88 μm.

SMEAR SLIDE SUMMARY (%);

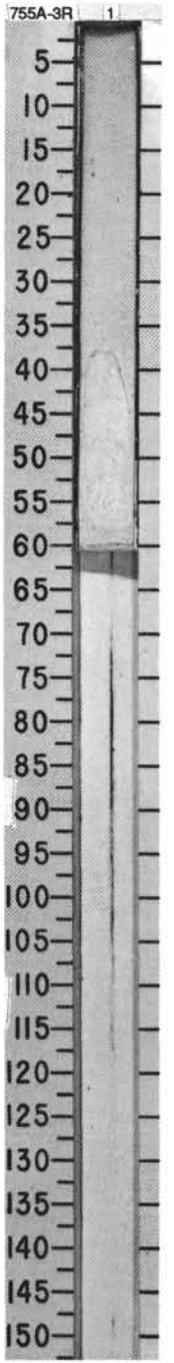
	1, 60 D	3,.120 D	4, 40 D
TEXTURE:			
Sand	25	10	20
Silt	65	80	70
Clay	10	10	10
COMPOSITION:			
Foraminifers	40	25	40
Glass	Tr	Tr	Tr
Micrite	10	5	5
Nannofossils	50	70	55



SITE 755 HOLE A CORE 3R CORED INTERVAL 45.8-55.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	BIOSTRAT. ZONE/ FOSSIL CHARACTER: NANNOFOSSILS	BIOSTRAT. ZONE/ FOSSIL CHARACTER: RADIOLARIANS	BIOSTRAT. ZONE/ FOSSIL CHARACTER: DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE	A/G *Globorotalia mayeri*	A/G CN6		Barren	not studied			1						FORAMINIFER NANNOFOSSIL OOZE Completely disturbed by drilling. Major lithology: FORAMINIFER NANNOFOSSIL OOZE, white (10 YR 8/2).

755A-4R No Recovery



SITE 755 HOLE A CORE 5R CORED INTERVAL 65.2-72.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
UPPER SANTONIAN (LOWER MIOCENE)	A/M	CN4											
	P. glomerosa curva												
	R/P	R/P											
		CC15-CC16											
			Barren										
					Normal								

SHELLY FORAMINIFER GRAINSTONE, LIMESTONE WITH ASH, AND TUFF WITH MICRITE

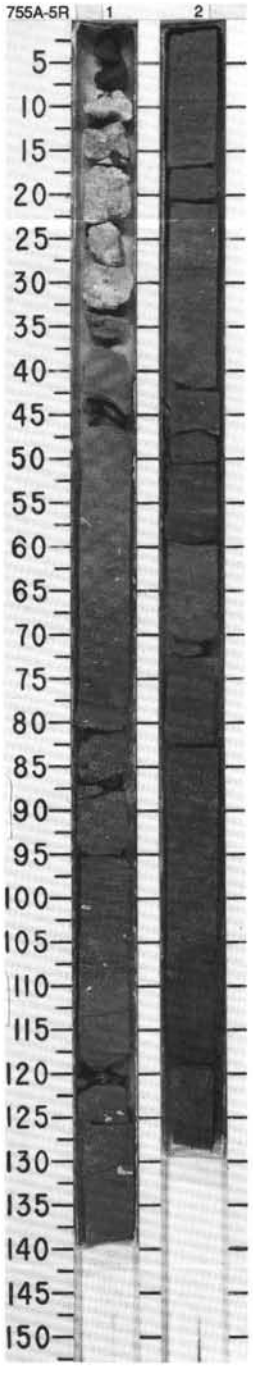
Core is undisturbed.

Major lithologies:
a. SHELLY FORAMINIFER GRAINSTONE extends from 0-37 cm in Section 1, and ranges in color from dark yellow brown (10YR 3/4) to white (10YR 8/2). The sediment, which is almost entirely mega- fossiliferous, like coquina, is sporadically stained a rusty red color by oxidized iron. A bivalve mold, 0.5 cm long, occurs at 15 cm. The lithology changes, abruptly, to a limestone with ash, at Section 1, 37 cm.
b. LIMESTONE with ash, which is olive (5Y 5/6 to 5Y 5/4), mottled, and streaked, extends to Section 2, 42 cm. Iron staining is concentrated in fractures and in bedding planes. Shell fragments and a significant amount of clastics and-sized grains occur throughout the lithology.
c. TUFF with MICRITE begins in Section 2 at 42 cm, with a color change to dark greenish gray (5BG 4/1), and extends to the bottom of Core 5. The sediment contains shell fragments and a considerable fraction of sand-sized clastic grains.

Eight bedding planes are recognized, some separating beds of different grain size. Mottling,which appears throughout, may reflect bioturbation or an occasional rip-up clast. Small fractures occur throughout the lower two lithologies.

SMEAR SLIDE SUMMARY (%):

	1, 80 D	2, 80 D
TEXTURE:		
Sand	10	10
Silt	80	80
Clay	10	10
COMPOSITION:		
Clay	—	50
Feldspar	1	Tr
Foraminifers	1	Tr
Glass	20	35
Glauconite	Tr	Tr
Micrite	70	8
Nannofossils	2	2
Opaques	Tr	2
Quartz	2	3
Spicules	—	Tr



SITE 755 HOLE A CORE 6R CORED INTERVAL 72.1-81.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
UPPER SANTONIAN	C/P *G. concavata* – *G. ventricosa*	R/P CC15-CC16		Barren	Normal	● 0-31.9 V-2438 ● 1-2.18 ● 33.8	● 0-21.9 V-2447 ● 1-2.34 ● 63.9	● 20.2	1	0.5 1.0			#
									2				*
									3				
									4				
									CC				

LITHOLOGIC DESCRIPTION

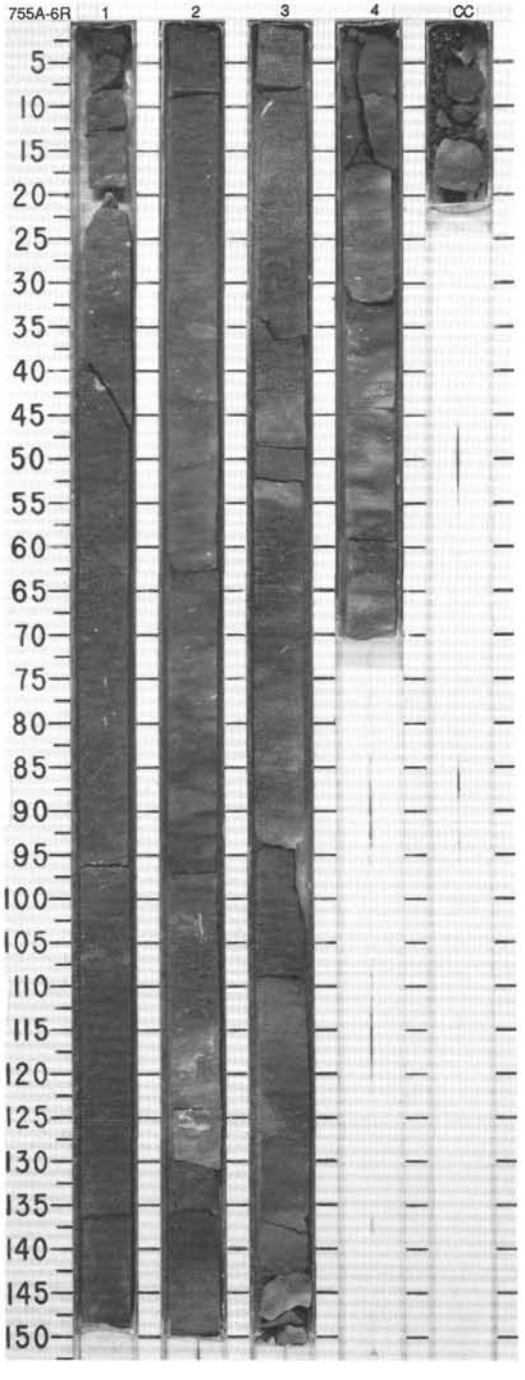
ASHY LIMESTONE, TUFF WITH MICRITE

The core is undisturbed.

Major lithology: TUFF with MICRITE dark greenish gray (5BG 4/1) occurs in Section 1 and 4. Ashy limestone, dark greenish gray (5BG 4/1), with greenish gray (5G 5/1) areas occurs in Section 2 and 3. The core is mottled and weakly laminated. Blacks flecks of volcanic glass speckle the entire core.Microfractures and microfaults are observed, with minerals sometimes filling the veins (calcite?). Shell fragments (*Inoceramus*?) are common. A pyrite bleb occurs in Section 1, 32 cm.The core is moderately bioturbated, with visible burrows. A shelly foraminifer grainstone pebble is seen in Section 1, 18-20 cm.It is concluded that this pebble is out of place, and is the result of drilling disturbance.

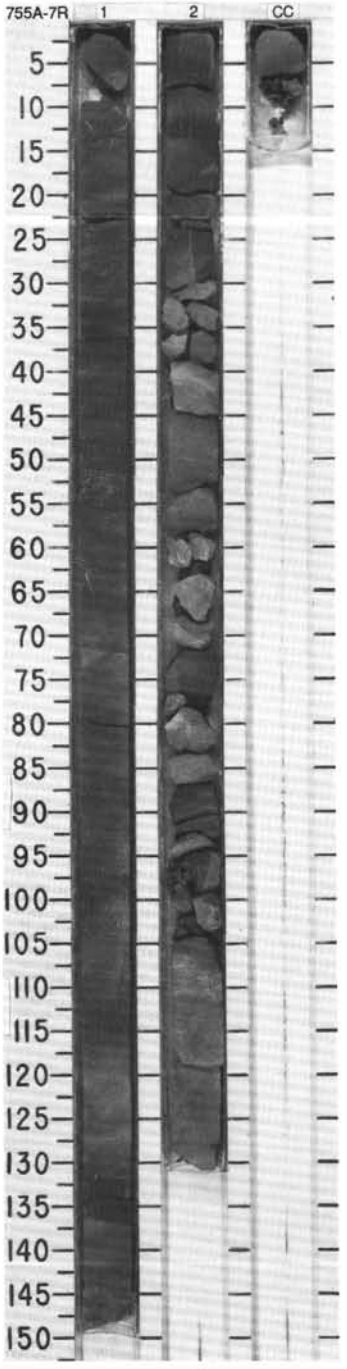
SMEAR SLIDE SUMMARY (%):

	1, 55 D	2, 90 D
TEXTURE:		
Sand	—	9
Silt	—	81
Clay	—	10
COMPOSITION:		
Bioclast	10	—
Clay	35	—
Dolomite	—	Tr
Glass	—	37
Micrite	30	60
Nannofossils	—	Tr
Opaques	—	3
Quartz	—	Tr
Rock Fragment	25	—



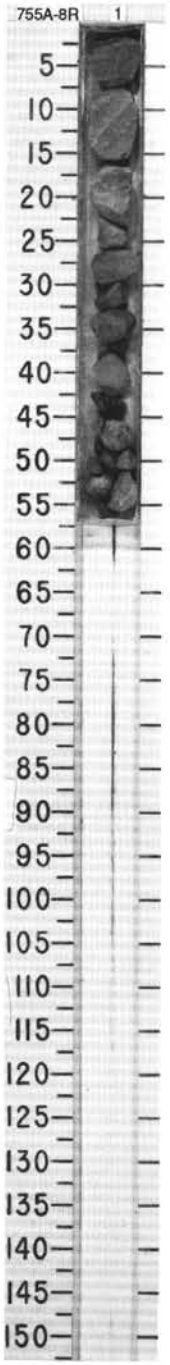
SITE 755 HOLE A CORE 7R CORED INTERVAL 1150.6-1160.3 mbsl; 81.8-91.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
UPPER SANTONIAN	R/P *G. concavata* - *G. ventricosa* Zones	R/P CC15-CC16		Barren	Normal	v=3917 ● ρ=36.7 ● ρ=2.15	14.1 ●● 13.1	1 2 CC	0.5 1.0		//			TUFF WITH MICRITE The core is undisturbed. Major lithology: TUFF with MICRITE. Greenish gray to dark greenish gray (5 GY 5/1 to 4/1, 5 GY 5/1). Horizontally smeared mottles and streaks are common. Microfaults occur, along with calcite-filled veinlets. Induration increases in Section 2, where porcellanite occurs. Minor lithology: Porcellanite, gray (5 GY 5/1), at Section 2, 57-72 cm.



SITE 755 HOLE A CORE 8R CORED INTERVAL 91.5-101.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
SANTONIAN-CONIACIAN	*G. concavata - G. ventricosa*	CC14		Barren	not studied	ρ=1.3.8 ● 1-2.47	5.8 ●	1						TUFF WITH MICRITE Recovery is in the form of smaller pieces. Major lithology: TUFF with MICRITE, dark greenish gray (5 BG 4/1), and faintly mottled. Minor lithology: Porcellanite, greenish gray (5 GY 6/1), at 16-20 cm, pebbles at 41-50 cm. Two pieces contain chert.



SITE 755 HOLE A CORE 9R CORED INTERVAL 101.2-110.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
SANTONIAN-CONIACIAN	R/P G. concavata - G. ventricosa	R/P CC14		Barren	Normal	● 25.8 ● 2.26 V=3068	● 16.6 ● 20.2	1 2 CC	0.5 1.0				* *

LITHOLOGIC DESCRIPTION

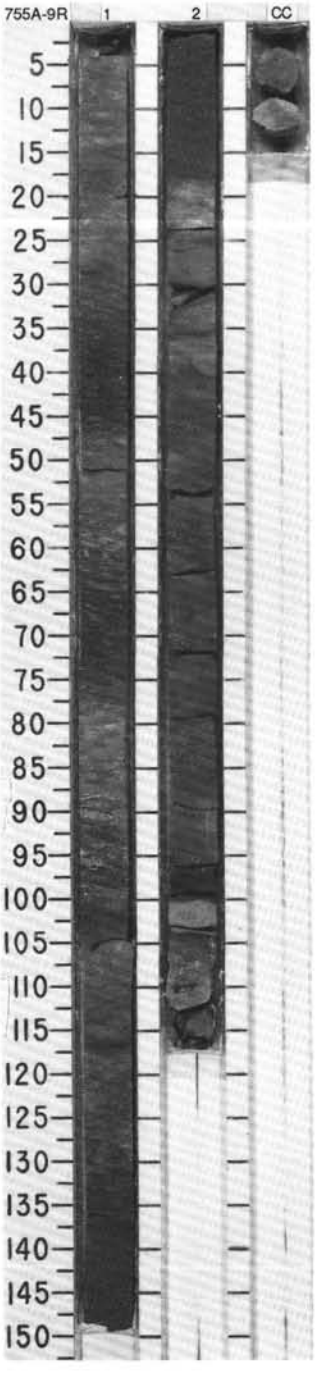
TUFF WITH MICRITE

The core is slightly fractured.

Major lithology: TUFF with MICRITE, dark greenish gray (5 G 4/1) to grayish olive green (5 GY 3/2). Darker sections are strongly mottled with sand-sized dark grains in the darkest patches. Lighter sections are faintly mottled and streaked. Dark intervals often have fairly sharp lower contacts.

SMEAR SLIDE SUMMARY (%):

	1, 90 D	2, 103 D
TEXTURE:		
Sand	5	1
Silt	80	79
Clay	15	20
COMPOSITION:		
Amphibole	Tr	Tr
Apatite	1	Tr
Clay	40	50
Dolomite	1	3
Feldspar	Tr	Tr
Foraminifers	—	Tr
Glass	30	20
Glauconite	Tr	Tr
Micrite	15	17
Nannofossils	5	5
Opaques	—	1
Plagioclase	—	1
Quartz	4	2
Silicoflagellates	Tr	—



SITE 755 HOLE A CORE 10R CORED INTERVAL 110.9-120.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
SANTONIAN-CONIACIAN	R/P *G. sigali - G. primitiva*	R/P CC14	Barren		Normal	V-2566 ϕ=38.8 ρ=2.12 ● ϕ=31.9 ρ=2.17 ● V-2604 ϕ=40.6 ρ=2.00 ● 19.7 ● 36.8 ● 4.1 ●		1 2 3 CC	0.5 1.0			Ⓟ	*

LITHOLOGIC DESCRIPTION

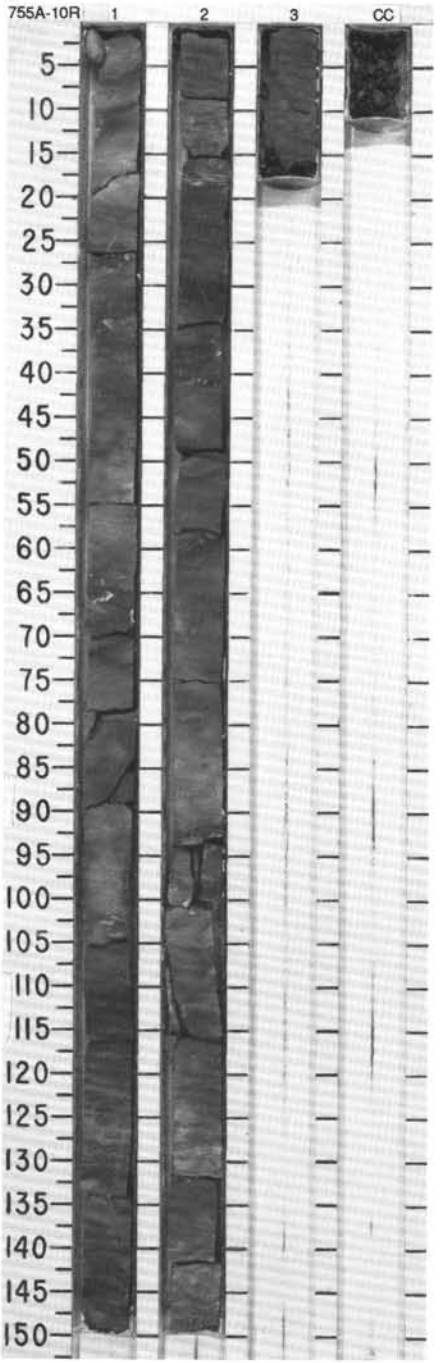
TUFF WITH MICRITE

The core is slightly fractured.

Major lithology: TUFF with MICRITE, dark greenish gray (5G 4/1 to 5BG 4/1)) to grayish olive green (5GY 3/2). Darker sections are strongly mottled with sand-sized dark grains in the darkest patches. Lighter sections are faintly mottled and streaked. Dark intervals often have fairly sharp lower contacts. A pyrite bed occurs in Section 2, 13-14 cm. Shell fragments occur throughout but are concentrated in Sections 1, 102-106 cm, and 2, 10-13, and 15-18 cm. Small fractures are filled with secondary vein minerals, probably calcite.

SMEAR SLIDE SUMMARY (%):

	2, 90 D
TEXTURE:	
Sand	2
Silt	78
Clay	20
COMPOSITION:	
Apatite	Tr
	5
Clay	50
Dolomite	2
Feldspar	1
Foraminifers	5
Glass	20
Micrite	5
Nannofossils	3
Opaques	1
Quartz	5



SITE 755 HOLE A CORE 11R CORED INTERVAL 120.5-130.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
CONIACIAN-TURONIAN	*G. sigali - G. primitiva*	CC12	Barren		Normal	0-33.3 ●2.23 0-36.1 V=4067 ●2.11	10.2 ●●14.2	1 CC			X			TUFF WITH MICRITE The core is moderately fractured, with drilling breccia in the CC. Major lithology:TUFF with MICRITE.Interspersed dark greenish gray (5GY4/1) and light greenish gray (5G 7/1) intervals throughout. Slight to moderate bioturbation and mottling throughout.Small fractures are filled with secondary minerals, including calcite.

SITE 755 HOLE A CORE 12R CORED INTERVAL 131.1-140.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
CONIACIAN-TURONIAN	*G. sigali - G. primitiva*	CC12	R/P R/P R/P	Barren (V-2978)	Normal	V-3758 ● (V-2535)	● 14.2 18.7	1	0.5 1.0					TUFF WITH MICRITE The core is slightly fractured. Major lithology: TUFF with MICRITE. Interspersed dark greenish gray (5BG 4/1) and dark greenish gray intervals throughout.The core is faintly mottled and bioturbated. Small fractures are filled with secondary minerals, presumably calcite.

SITE 755 HOLE A CORE 13R CORED INTERVAL 140.8-150.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
CONIACIAN-TURONIAN	C/M	F/P	Barren		Normal	V=2842 ● ϕ=35.6 ρ=2.26 V=2502 ● ϕ=34.6 ρ=2.31 V=2664 ● V=2384	6.1 ●● 20.7 ● 11.1 ● 3.2	1 2 3 4 CC	0.5 1.0	VOID			* * #

LITHOLOGIC DESCRIPTION

GLAUCONITIC TUFFS, TUFFS WITH GLAUCONITE AND MICRITE.

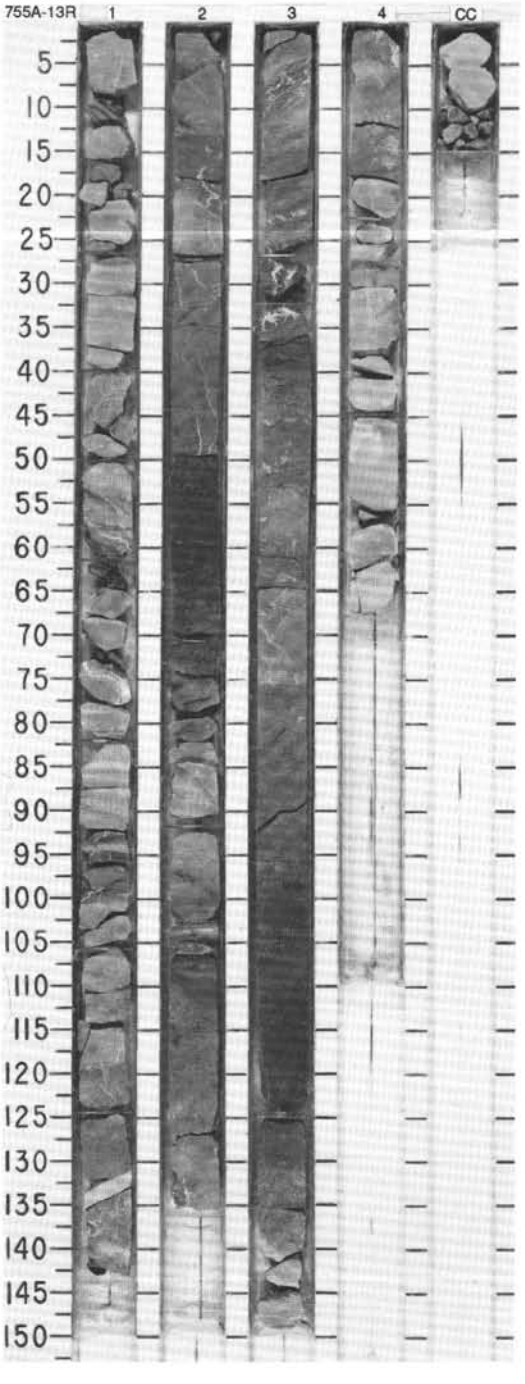
The core is slightly to moderately fractured, with drilling breccia in the CC.

Major lithology: GLAUCONITIC TUFFS, TUFF with GLAUCONITE and MICRITE. Dark blue gray (5B 4/1), dark gray (N 4/), and gray (5Y 5/1) color are interspersed in a greenish gray colored matrix (5G 5/1, or 5GY 5/1). Slightly to moderately bioturbated and mottled throughout. Small fractures and burrows are filled with secondary minerals, presumably calcite. Calcite laminae occur in Section 2, 115 -125 cm. A 2 to 3 cm thick gypsum layer occurs in Section 1, 133-135 cm. Zones of well developed pyrite crystals occur throughout core. The surface was strongly pitted in the darker intervals.

Minor lithology: Porcenallite. Greenish gray (5BG 5/1) and occurs in Section 4, 30-68 cm. More lustrous than the remainder of the core.

SMEAR SLIDE SUMMARY (%):

	2, 60 D	3, 85 D	3, 104 D
TEXTURE:			
Sand	5	—	30
Silt	85	90	10
Clay	10	10	60
COMPOSITION:			
Bioclast	—	—	5
Clay	20	40	—
Glass	37	20	—
Glauconite	30	20	30
Micrite	10	10	62
Nannofossils	Tr	Tr	—
Opaques	3	5	—
Quartz	Tr	Tr	—
Rock Fragment	—	—	3



SITE 755 HOLE A CORE 14R CORED INTERVAL 150.4-160.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
CONIACIAN-TURONIAN	R/P *G. sigali - G. primitiva*	R/P CC12 ?	Barren		Normal	● Φ=21.5 V=3232 ● V=3455 ● Φ=32.6 V=2228 ● Φ=30.6 V=2795 ●	5.2 ● 12.0 ● 7.8 ● 8.2 26.0 ● 18.8	1 2 3 4 CC	0.5 1.0	VOID	X		* *

LITHOLOGIC DESCRIPTION

TUFF WITH GLAUCONITE AND MICRITE.

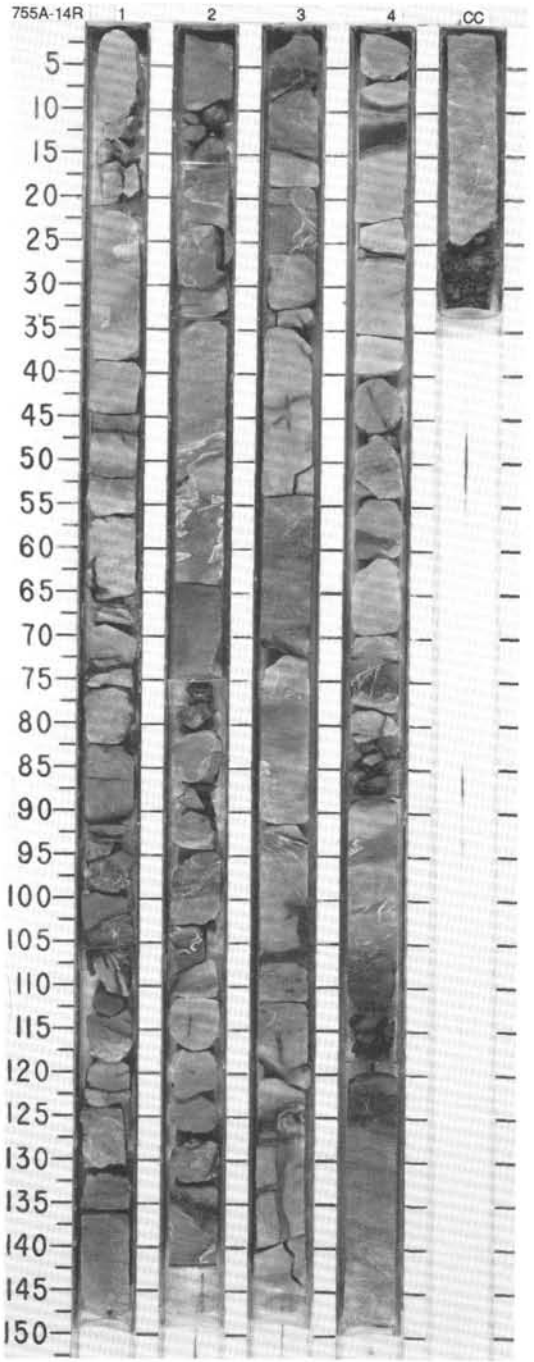
The core is moderately fractured.

Major lithology: TUFF with GLAUCONITE and MICRITE. Interspersed greenish gray (5G 4/1) and dark gray (5Y 4/1) colored intervals, that grade into dark greenish gray (5G 4/1) in Section 4. Slight to moderate bioturbation and mottling throughout core. Small fractures and burrows are filled with secondary minerals, presumably calcite and pyrite.

Minor lithology: Glauconitic tuff. Greenish gray color (5G 4/1), and occurs in Section 2, between 112-120 cm, and in Section 3, 24-30 cm and 59-68 cm.

SMEAR SLIDE SUMMARY (%):

	2, 40 D	3, 60 D
TEXTURE:		
Sand	—	10
Silt	80	80
Clay	20	10
COMPOSITION:		
Apatite	Tr	Tr
Clay	67	50
Foraminifers	3	—
Glass	10	7
Glauconite	10	30
Micrite	10	10
Nannofossils	Tr	Tr
Opaques	Tr	3
Quartz	Tr	Tr



SITE 755 HOLE A CORE 15R CORED INTERVAL 160.0-169.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
CONIACIAN-TURONIAN	*G. sigali - G. primitiva*	CC12 ?	Barren		Normal	ϕ=29.2 I=2.33 V=2773 ϕ=28.4 I=2.31 V=3144 ϕ=28.0 I=2.28 V=2961 V=2604	●9.4 ●36.2 ●2.8	1 2 3 4 5 6 CC	0.5 1.0	VOID VOID VOID			* *

LITHOLOGIC DESCRIPTION

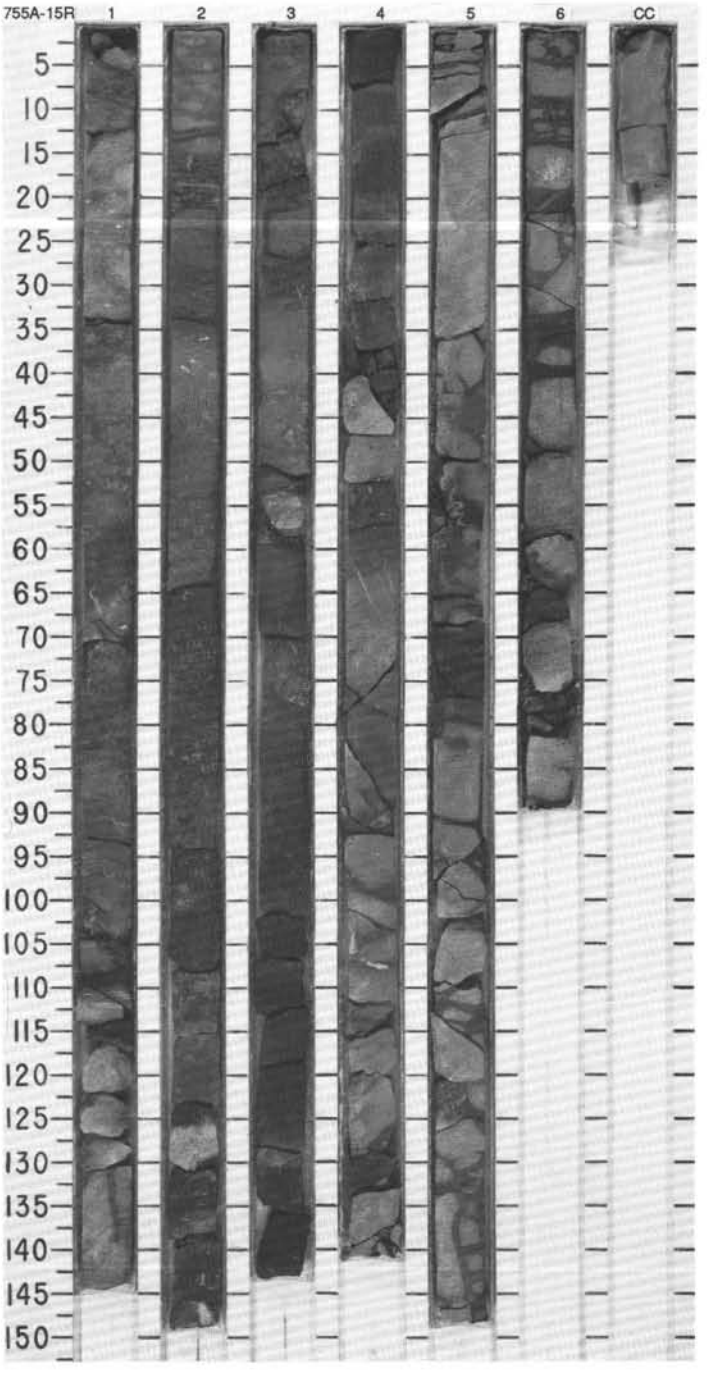
TUFF WITH MICRITE

The core is moderately fractured.

Major lithology: TUFF with MICRITE. Dark greenish gray (5G 4/1) with grayish brown (2.5Y 5/2), light greenish gray (5G 7/1), and grayish green (5G 4/2), mottles. A dark bluish gray (5B 4/1) zone in Section 5, 60-70 cm results from sand sized glauconite grains. Slightly to moderately bioturbated and mottled throughout core. Small fractures and burrows are filled with secondary minerals, presumably calcite and pyrite.

SMEAR SLIDE SUMMARY (%):

	1, 40 D	5, 20 D
TEXTURE:		
Sand	5	—
Silt	83	90
Clay	12	10
COMPOSITION:		
Apatite	1	—
Clay	50	40
Foraminifers	—	2
Glass	20	20
Glauconite	8	20
Micrite	15	10
Nannofossils	Tr	Tr
Opaques	3	4
Quartz	—	Tr
Spicules	Tr	—



SITE 755 HOLE A CORE 16R CORED INTERVAL 169.7-179.3 mbsf

TIME-ROCK UNIT: CONIACIAN-TURONIAN

BIOSTRAT. ZONE/FOSSIL CHARACTER: B; FORAMINIFERS: C/P; NANNOFOSSILS: CC12 ?; RADIOLARIANS: R/P; DIATOMS: Barren

PALEOMAGNETICS: Normal

PHYS. PROPERTIES: ρ 30.9, V 2524, 2.20; ρ 30.5, V 2489, 2.20; ρ 24.7, V 2678, 2.33

CHEMISTRY: ● 3.2; V 4100 ● γ 2.55; ● 3.8; ● 4.0

SECTION: 1, 2, 3, 4, 5, 6

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID

DRILLING DISTURB.

SED. STRUCTURES: Ⓟ

SAMPLES: *

LITHOLOGIC DESCRIPTION

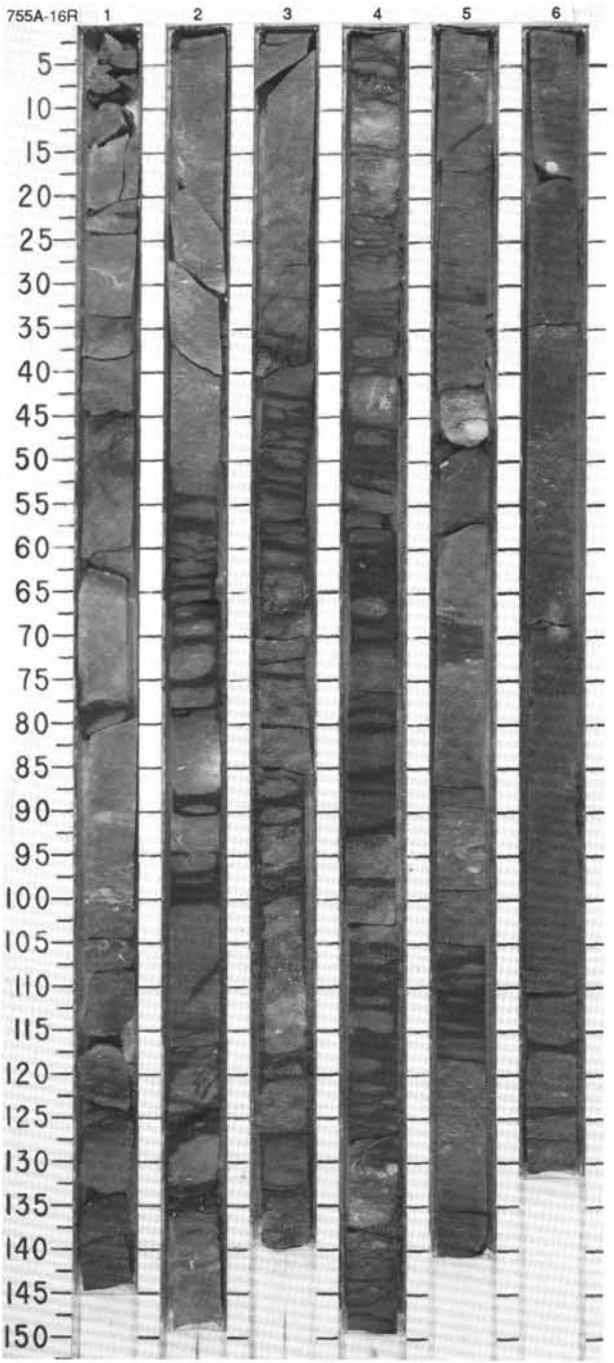
TUFF AND TUFF WITH GLAUCONITE.

The core is slightly to moderately fractured.

Major lithology: TUFF, and TUFF with GLAUCONITE. The tuff with low concentrations of glauconite are predominantly black (5Y 2.5/2), dark olive gray (5Y 3/2), and dark gray (5G 4/1). The glauconite-rich intervals are dark greenish gray (5BG 4/1) to greenish gray (5G 4/2), and the grains are large and granular, up to large sand size. Small white shell fragments, including a bivalve, occur throughout the core. Slight to moderate mottling and bioturbation occur in only Sections 1, 2 and 6. Small fractures and vugs are filled with secondary minerals, including gypsum, calcite and pyrite. An iron sulfide, probably pyrite, occurs as blebs and vein fillings in Sections 1, 93 and 123 cm; 2, 126 cm; and 5, 42 cm. Thin fractures, which appear to be clay partings, occur in the glauconite poor intervals. A nodule occurs in Section 5 at 45-47 cm.

SMEAR SLIDE SUMMARY (%):

	2, 90 D	6, 80 D
TEXTURE:		
Sand	5	10
Silt	70	65
Clay	25	25
COMPOSITION:		
Apatite	3	1
Clay	60	60
Dolomite	Tr	—
Feldspar	—	Tr
Foraminifers	Tr	2
Glass	10	8
Glauconite	5	15
Gypsum	5	—
Micrite	5	5
Nannofossils	5	5
Opaques	2	2
Quartz	3	1
Spicules	Tr	1



SITE 755 HOLE A CORE 17R CORED INTERVAL 179.3-189.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
CONIACIAN-TURONIAN	B	CC12 ?	Barren		Normal	● 2.18 V=2821 ● 2.6		1 2 3 4	0.5 1.0	VOID			*

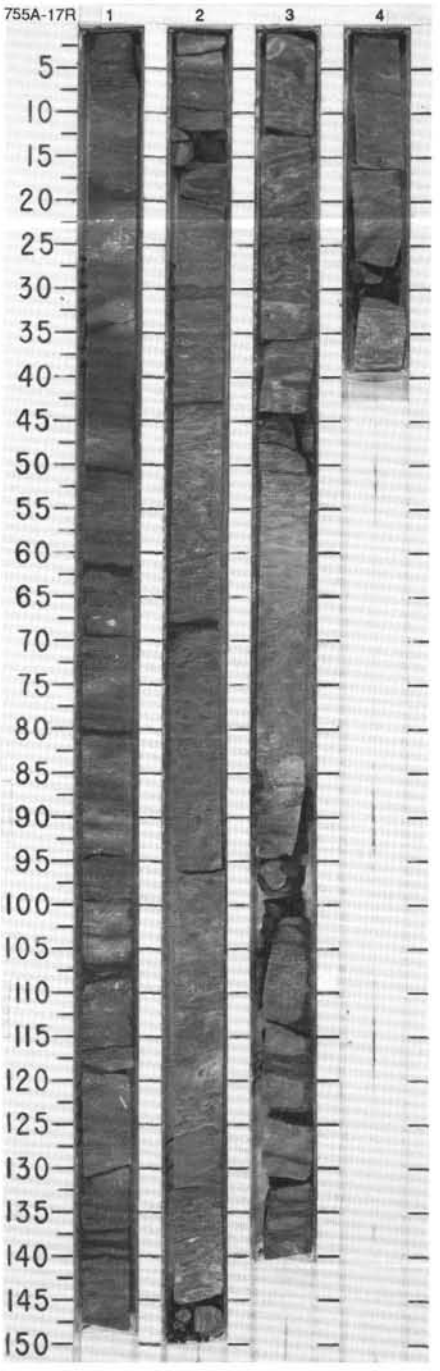
TUFF, TUFF WITH GLAUCONITE.

Section 3 is moderately fractured.

Major lithology: TUFF, and TUFF with GLAUCONITE.The tuff with low concentrations of glauconite are predominantly black (5Y 2.5/2), while the glauconite rich intervals are greener, dark greenish gray (5BG 4/1) to very dark greenish gray (10Y 3/). In the glauconite rich layers the grains are large and granular, up to large sand size but poorly sorted. Small white shell fragments occur infrequently throughout the core. Well developed, horizontally oriented (or deformed/smeared) mottles are common throughout. Small fractures and vugs are filled with secondary minerals, including gypsum, calcite and pyrite. Thin fractures, apparently clay partings, occur in the glauconite poor intervals. Soft sediment deformation structures occur in Section 1 at 110-113 cm.

SMEAR SLIDE SUMMARY (%):

	2, 113 D
TEXTURE:	
Sand	5
Silt	70
Clay	25
COMPOSITION:	
Apatite	Tr
Clay	58
Feldspar	Tr
Foraminifers	2
Glass	20
Glauconite	10
Gypsum	2
Micrite	5
Nannofossils	3
Quartz	Tr
Spicules	Tr



SITE 755 HOLE A CORE 18R CORED INTERVAL 189.0-198.7 mbsf

TIME-ROCK UNIT: CONIACIAN-TURONIAN

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: F/P; NANNOFOSSILS: CC12 ?; RADIOLARIANS: Barren; DIATOMS:

PALEOMAGNETICS: Normal

PHYS. PROPERTIES: 1.8 ● 3.2; ● 25.9 2.17 V-2603; ● 30.9 2.20 V-2677; ● 4.4; ● 25.3 2.37 V-2601; ● 21.0

CHEMISTRY:

SECTION: 1, 2, 3, 4, 5, 6

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID

DRILLING DISTURB.:

SED. STRUCTURES:

SAMPLES:

LITHOLOGIC DESCRIPTION

TUFF WITH MICRITE, AND TUFF

The core is moderately fractured in Section 3, and highly fractured to drilling breccia in Sections 6, 7 and 8.

Major lithology: TUFF with MICRITE, and TUFF, dark greenish gray (5BG 4/1) with light gray (N7) to dark greenish gray (5BG 4/1) mottles. The core is speckled with volcanic glass and glauconite. Each fleck is less than 1 mm in diameter. Sharp contacts are seen in Section 1, 7, 19, 30, and 47 cm, Section 3, 124 cm, and Section 5, 119 cm with fining upward particle size. Microfractures filled with secondary and authigenic minerals (calcite, gypsum?) are common, specifically in Sections 6, 7, and 8. Clear soft sediment deformation structures were seen in Section 4. Pyrite blebs are seen in Section 1, 41 cm, Section 2, 80cm, and Section 5, 87, and 91-93 cm.

SMEAR SLIDE SUMMARY (%):

	2, 120 D	5, 9 D	5, 113 D	5, 118 D	6, 106 D
TEXTURE:					
Sand	7	—	—	—	10
Silt	83	—	—	—	80
Clay	10	—	—	—	10
COMPOSITION:					
Apatite	Tr	—	—	—	—
	—	—	10	Tr	—
Clay	50	33	30	40	20
Feldspar	1	—	Tr	—	Tr
Foraminifers	Tr	—	—	—	—
Glass	30	30	30	30	65
Glauconite	—	—	—	—	Tr
Inorganic Calcite	—	—	—	1	—
Micrite	15	2	5	5	10
Nannofossils	2	—	—	—	Tr
Opaques	—	Tr	—	3	—
Plagioclase	—	—	—	1	—
Quartz	2	30	25	15	5
Siderite	—	5	Tr	5	—
Spicules	—	—	—	—	Tr
Zeolite	—	—	Tr	—	—

Cont.

SITE 755 HOLE A CORE 18R CORED INTERVAL 189.0-198.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
CONIACIAN-TURONIAN	B	B	Barren					7 8 CC	0.5 1.0		X			Cont.

SITE 755 HOLE A CORE 19R CORED INTERVAL 198.7-208.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
LOWER TURONION	B	F/P	Barren		Normal	V-4128 ρ=2.46 V-2608 ρ=2.22 ρ=29.0 V-2410 ρ=2.18 ρ=33.1 V-2298 ρ=2.15 ρ=35.2	2.7 ● 1.0 ● 3.3 ● 0.3	1 2 3 4 5 6 7 CC	0.5 1.0				

LITHOLOGIC DESCRIPTION

TUFF

The core is moderately disturbed in Sections 1-3 and 7.

Major lithology: TUFF, dark greenish gray (5BG 4/1), with faint to moderate mottling throughout. Mostly silt grainsize, although a few intervals of sand occur. Minor occurrences of microfractures filled with secondary minerals, and pale olive (5Y 6/3) shell fragments throughout.
Two nodules of essentially pure recrystallized sparry limestone, gray (N7) occur in Section 6, 140-142 cm, and Section 7, 16-20 cm.

SMEAR SLIDE SUMMARY (%):

	2, 123 D	2, 124 D	4, 95 D	6, 103 D	7, 66 D
TEXTURE:					
Sand	9	—	—	—	9
Silt	81	—	—	—	81
Clay	10	—	—	—	10
COMPOSITION:					
Accessory Minerals	—	—	1	Tr	—
Apatite	—	2	3	7	—
	—	—	—	10	—
Clay	—	40	40	40	—
Feldspar	Tr	1	Tr	Tr	Tr
Glass	80	20	20	20	90
Glauconite	7	30	25	20	2
Inorganic Calcite	—	—	Tr	Tr	—
Micrite	8	2	Tr	Tr	5
Nannofossils	Tr	—	—	—	Tr
Opaques	2	3	2	3	3
Plagioclase	—	—	—	Tr	—
Pyroxene	—	Tr	—	Tr	—
Quartz	3	1	2	Tr	Tr
Zeolite	—	—	5	Tr	—