

INITIAL CORE DESCRIPTIONS

DEEP SEA DRILLING PROJECT

LEG 27

EASTERN INDIAN OCEAN



Prepared for the
NATIONAL SCIENCE FOUNDATION
National Ocean Sediment Coring Program
Under Contract C-482

By the
UNIVERSITY OF CALIFORNIA
Scripps Institution of Oceanography
Prime Contractor for the Project



SCRIPPS INSTITUTION OF OCEANOGRAPHY

POST OFFICE BOX 109
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September 14, 1973

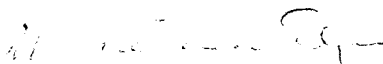
Dear Colleague:

This document has been printed and distributed by the Deep Sea Drilling Project for the purpose of sample selection by interested earth scientists, sample requests being honored one year after completion of the cruise on which the samples were collected. It is an interim and informal document consisting of site data and sedimentologic and paleontologic data as known six (6) months post-cruise. These data, while completely adequate for almost all sample selection needs, will be subject to possible slight change by the time of issue of the formal cruise report, the corresponding volume of the Initial Reports of the Deep Sea Drilling Project.

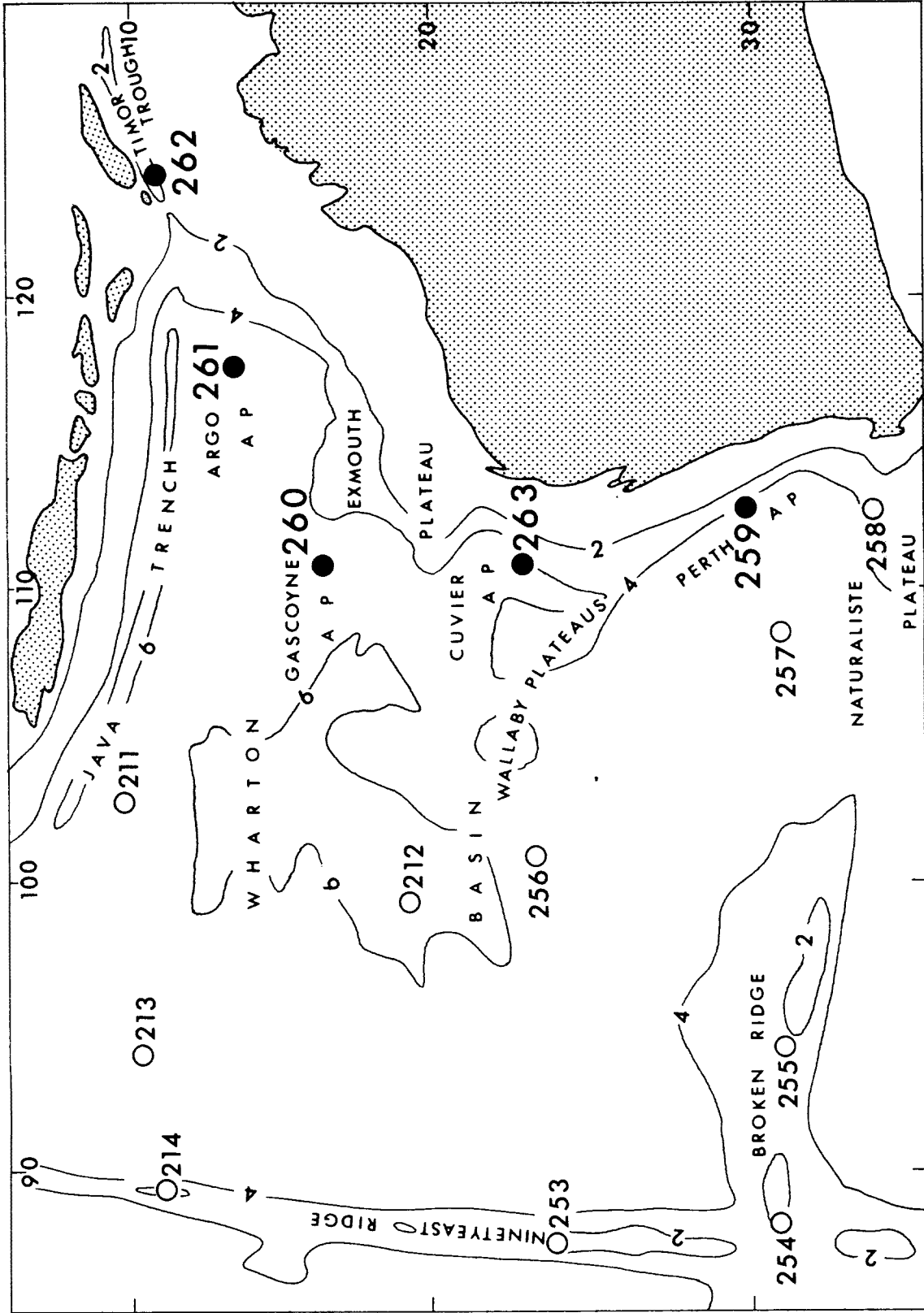
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Thank you for your interest in the Deep Sea Drilling Project.

Sincerely,


N. Terence Edgar
Chief Scientist
Deep Sea Drilling Project

NTE:sk



● Leg 27 Sites DSDP LEG 27 FREMANTLE, AUSTRALIA TO FREMANTLE, AUSTRALIA

○ Previous Legs

November - December 1972

INITIAL CORE DESCRIPTION
(ICD)
DEEP SEA DRILLING PROJECT
LEG 27
NOV. 1, 72 - DEC. 9, 72

A Project Planned by and Carried Out With the Advice of the
JOINT OCEANOGRAPHIC INSTITUTIONS FOR DEEP EARTH SAMPLING (JOIDES)

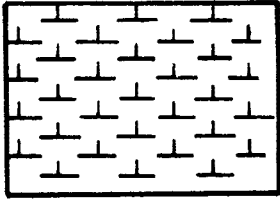
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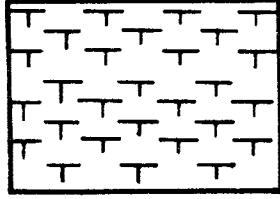
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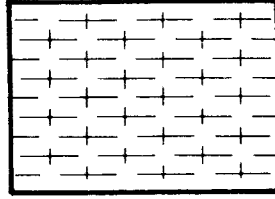
Nannofossil Ooze



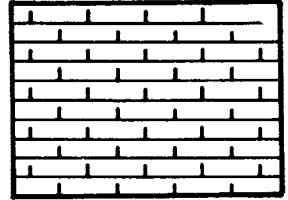
Foraminiferal Ooze



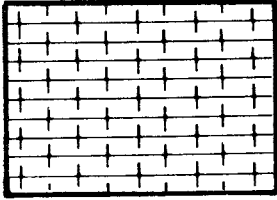
Nanno-Foram or Calcareous Ooze



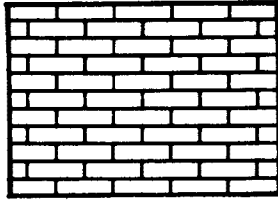
Nannofossil Chalk



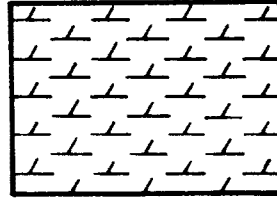
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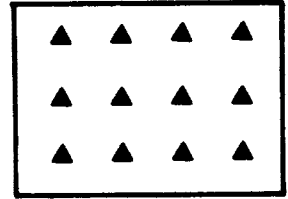
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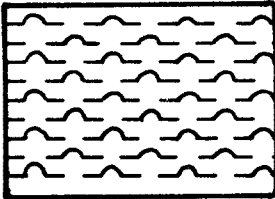
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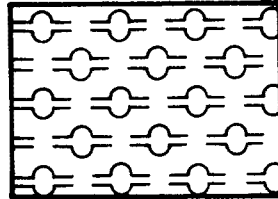
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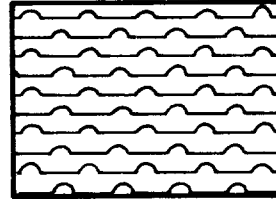
Radiolarian Ooze



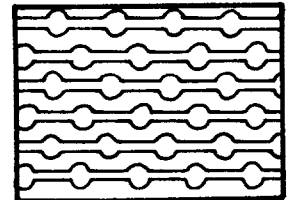
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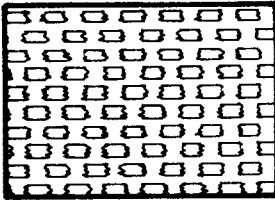
Radiolarite



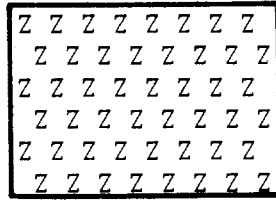
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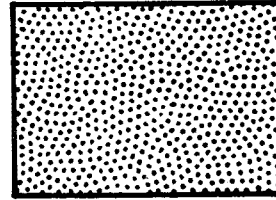
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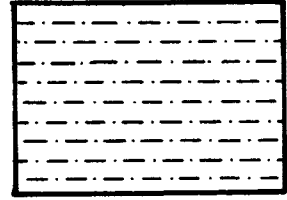
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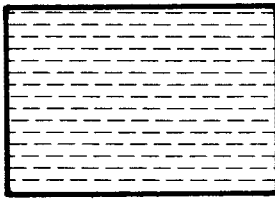
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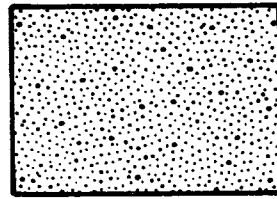
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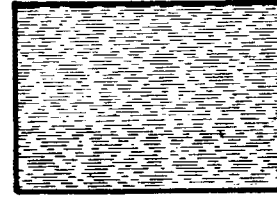
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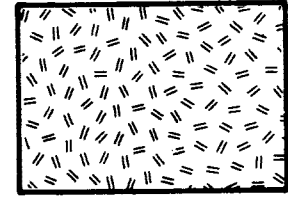
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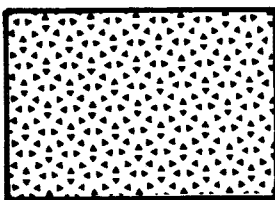
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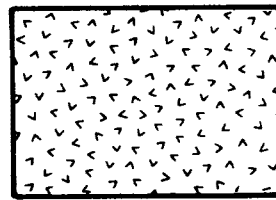
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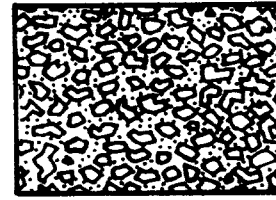
Volcanic Lapilli



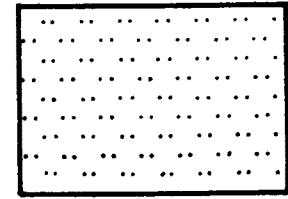
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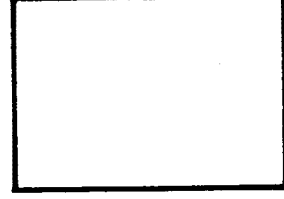
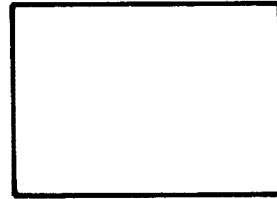
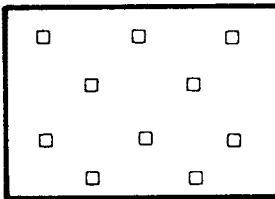
Breccia



Silt



Pyrite



DEEP SEA DRILLING PROJECT

LEG 27 SITE 259

SITE SUMMARY SHEET

POSITION: Latitude: 29°37.05'S Longitude: 112°41.78'E

Water depth (from sea level): 4696 corrected meters (Echo sounding)

Bottom felt at: 4712 meters (drill pipe) Penetration: 346 meters

Number of Holes: 1 Number of Cores: 41

Total length of cored section: 346 meters Total core recovered: 248.75 m

Percentage of core recovery: 71.9%

OLDEST SEDIMENT CORED:

Depth below sea floor: 307.5 meters Nature: Green gray clay

Age: Upper Jurassic to Lower Cretaceous Measured Velocity: 1.0 km/sec

BASEMENT:

Depth below sea floor: 35 seconds DT (seismic profiler)

Depth below sea floor: 307.5 meters (drilled)

Inferred velocity to basement: 1.75 km/sec Nature: Altered basalt

PRINCIPAL RESULTS:

Site 259 is situated in 4706 m of water at the foot of the continental slope near the eastern side of the Perth Abyssal Plain. The site is on a slightly elevated area from which Lamont-Doherty Geological Observatory in 1967 recovered a piston core of Paleocene ooze. The site was cored continuously to basalt basement at 307.5 m sub-bottom, and thence 38.5 m into basement, recovering 20 m of basalt. The oldest datable sediment, immediately above the basalt is Upper Jurassic to Lower Cretaceous. Seventy meters of Quaternary, Lower Eocene, and Upper Paleocene brown clay and ooze overlies Albian zeolitic clay, brown clay, and ooze, and Lower Cretaceous green gray zeolitic clay. These sediments overlie, at a depositional contact, gray basaltic breccia that grades downwards into dark gray fine-grained basalt. Of particular interest are the basement age of Upper Jurassic to Lower Cretaceous and the hiatus of the entire Upper Cretaceous and Lower Paleocene.

AGE	ZONE	FORAMS	NANNOS	RADOLARIA	OTHERS	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
UPPER PALEOCENE	(f) Globolita velascoensis (N) Discosaster multiradatus	CM	CP	RVP	Fd 1	0.5				10YR8/2 10YR7/4	Strongly disturbed stiff clay and ooze. Colors chiefly grayish orange (10YR7/4) with black streaks (M) in upper part and dark yellowish orange (10YR6/6) in lower part. (N) Discosaster multiradatus (10YR4/2) and (N) Globolita velascoensis (10YR4/2) part chiefly moderate yellowish brown.
		AM	CP	RVP	Fd 2	1.0				90	Chiefly zeolite bearing nanno ooze and zeolite rich clay with minor iron oxide.
		CM	CP	RVP	Fd 3					74 75	ZEOLITE BEARING NANNO Ooze Smear slides 1-90, 2-75, 3-75, 5-80 Texture Clay 56% Silt 43% Sand 1% Composition Nannos 90% Zeolite 10% Iron Oxide 1% Feldspar Tr. Quartz Tr.
		CM	CP	RVP	Fd 4					XR 26-28	ZEOLITE RICH CLAY Smear slides 4-75, 5-103, CC Composition Clay 86% Zeolite 19% Feldspar 1% Iron Oxide Tr. Quartz Tr.
		CM	CP	RVP	Fd 5					75 74 95	IRON OXIDE Smear slide 4-95 Composition Iron Oxide 99% Quartz 7% Nannos Tr. Feldspar Tr.
		NONE	CP	RVP	Fd 4					94-96 NI	BULK X-RAY (58.8 m) Calcite 87% Quartz 7% Clinochilolite 3% Mica 2% Montmorillonite 1%
		CM	CP	RVP	Fd 5					67 74 80 103	BULK X-RAY (61.0 m) Quartz 44% Clinochilolite 32% Mica 8% Montmorillonite 6% Phyllosilicate 1% Gypsum 1%
		CM	CP	RVP	Core Catcher					CC	

AGE	ZONE	FORAMS	NANNOS	RADOLARIA	OTHERS	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
UPPER PALEOCENE	(f) Globolita velascoensis (N) Discosaster multiradatus	CM	CP	RVP	Fd 1	0.5				75 74	Highly contorted stiff clay and ooze. Chiefly grayish orange (10YR7/4) in upper and lower parts and pale yellowish orange (10YR6/6) in middle.
		CM	CP	RVP	Fd 2	1.0				67 75	ZEOLITE BEARING NANNO Ooze Smear slides 1-75, 2-75, 3-75, 4-75, 5-75, 6-60, 6-135, CC Texture Clay 58% Silt 42% Sand 0% Composition Nannos 95% Zeolite 5% Dolomite rhombs Tr. Forams Tr.
		CM	CP	RVP	Fd 3					XR 26-28	BULK X-RAY (49.3 m) Calcite 93% Clinochilolite 5% Quartz 2%
		CM	CP	RVP	Fd 4					75	10YR7/4 with streaks of 10YR6/6
		CM	CP	RVP	Fd 5					67 74	
		CM	CP	RVP	Fd 6					60	
		CM	CP	RVP	Core Catcher					135 CC	

Site 259 Hole Core 10 Cored Interval: 04-93.5 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
LOWER CRETACEOUS, LATE ALBIAN					0.5	VOID		Highly contorted stiff clay with some vertical striping. Dark nodules abundant. Chiefly a mixture of moderate yellowish brown and dusky yellowish brown or dark yellowish brown.	
					1.0		10YR5/4 10YR2/2	ZEOLITE CLAY Shear slides 1-95, 2-100, 3-75, 4-74, 5-71, 6-85, 6-114, CC	
					2.0		nodules 512/1	Texture Clay 79% Silt 19% Sand 2% Zeolite Nannos Quartz	
					3.0		10YR5/4 10YR4/2	Composition Clay Zeolite Nannos Quartz	
					4.0		62 74		
					5.0		100	BULK X-RAY (87.3 m)	
					6.0		XR 26-28	40% Clinoptilolite 18% Palygorskite 17% Montmorillonite 12% Mica 11% Quartz 2% Gypsum	
					7.0		10YR5/4 10YR4/2		
					8.0		74		
					9.0		nodules 512/1		
				10.0		10YR5/4 10YR4/2			
				11.0		62 74			
				12.0		85			
				13.0		10YR5/4 NI			
				14.0		114			
				15.0		10YR5/4			
				16.0		Core Catcher			

Site 259 Hole Core 11 Cored Interval: 93.5-103 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
LOWER CRETACEOUS, LATE ALBIAN					0.5	VOID		Highly deformed stiff clay. Chiefly moderate yellowish brown with streaks and patches of dark yellowish brown.	
					1.0		10YR5/4 10YR4/2	ZEOLITE CLAY Shear slides 1-130, 2-75, 3-75, 4-75, 5-75	
					2.0		62 74 10YR5/4	Texture Clay 76% Silt 23% Sand 1% Zeolite Nannos Heavy minerals Quartz, feldspar Iron oxide	
					3.0		10YR5/4 10YR4/2	Composition Clay and cristobalite 68% Zeolite 30% Nannos 1% Heavy minerals 1% Quartz, feldspar Iron oxide	
					4.0		XR 26-28	MAJNO BEARING ZEOLITE CLAY Shear slides 5-145, CC	
					5.0		75	Composition Clay Zeolite Opalines Nannos Feldspar	
					6.0		10YR5/4	BULK X-RAY (96.8 m)	
					7.0		62 75	29% Clinoptilolite 19% Palygorskite 16% Montmorillonite 15% Quartz 4% Mica 2% Pyrophyllite 1% K-feldspar 1%	
					8.0		10YR5/4		
					9.0		145		
				10.0		CC			
				11.0		Core Catcher			

CRETACEOUS (based on Radiolaria)

AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
LOWER CRETACEOUS, LATE ALBIAN	(F) late Albian (N) Prediscosphaera cretacea	FORAMS NANNOS RADIOLARIA OTHERS	SECTION	0.5 1.0	0.4 m zero section			Highly deformed and brecciated stiff nano ooze. Chiefly light brown in upper half and olive gray and greenish gray in lower half. ZEOLITE RICH CLAY BEARING NANNALOOZE Smear slides 1-75, 2-75, 3-75, 4-75, 6-75, 6-119, CC Composition Texture Clay 75% Silt 25% Nannos 72% Zeolite 15% Clay and cristobalite 10% Forams 2% Dolomite rhombs 1% Feldspar 1%
		CM	2	2	2		75	
		AM	3	3	3		67, 74, 75	
		AM	4	4	4		75	
		AM	5	5	5		67, 74, 75	
		RM	6	6	6		75	
		RM	7	7	7		119	
		RM	8	8	8		CC	

AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
LOWER CRETACEOUS, LATE ALBIAN	(F) late Albian (N) Prediscosphaera cretacea	FORAMS NANNOS RADIOLARIA OTHERS	SECTION	0.5 1.0	0.4 m zero section			Greatly disturbed stiff clay. Chiefly moderate yellowish brown to 1.5 meters then chiefly greenish gray with some admixed moderate yellowish brown. ZEOLITE AND CLAY RICH NANNALOOZE Smear slides 1-75, 2-75, 3-75, 4-75, 5-75, CC Composition Texture Clay 73% Silt 26% Sand 1% Nannos 50% Clay and cristobalite 30% Zeolite 20% Dolomite rhombs 1% Reevey fragments 1% Corp. frags. 1%
		RM	2	2	2		74, 75	
		RM	3	3	3		67, 74, 75	
		RM	4	4	4		75	
		RM	5	5	5		67, 74, 75	
		RM	6	6	6		75	
		CG	7	7	7		CC	

Site 259 Hole Core 22 Cored Interval: 198-207.5 m

AGE	ZONE	FORAMS	NANNOS	PD/OLARIA	OTHERS	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
LOWER CRETACEOUS		FP				1	0.5	VOID		60	Weakly to strongly deformed mixture of greenish gray and olive black stiff clay. A few dolomite-rich nodules are dusky yellow in color. CRISTOBALITE CLAY Smear slides 1-60, 2-80 Texture Clay 82% Silt 18% Composition Clay and Cristobalite 94% Zeolite 2% Quartz 1% Feldspar, heavy minerals, chlorite Tr.
		FP				2	1.0	200		67 60	504/1 & 502/1 nodule 516/4 74

Site 259 Hole Core 23 Cored Interval: 207.5-217 m

AGE	ZONE	FORAMS	NANNOS	PD/OLARIA	OTHERS	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
LOWER CRETACEOUS		FP				1	0.5			75	Weakly to strongly deformed stiff clay. Soupy from 6-77 to 6-121. Chiefly dark greenish gray and olive black layers with specks and nodules of yellowish gray. CRISTOBALITE SILTY CLAY Smear slides 1-75, 2-75, 3-75, 4-75, 5-75, 6-70 Texture Clay 69% Silt 31% Composition Clay and Cristobalite 98% Zeolite 1% Heavy minerals 1% Quartz, Feldspar, chlorite, dolomite Tr.
		FP				2	1.0			39 67 75	BULK X-RAY (210.8 m) Montmorillonite 42% Cristobalite 25% Quartz 14% Mica 8% K-Feldspar 5% Aggluclase 2% Oxide 2% Pyrite 1%
		FP				3	1.0			26-28	517/2 specks
		FP				4	1.0			75	517/2 specks
		FP				5	1.0			39 67 75	517/2 nodule 517/2 nodule 516/4 specks 517/2 specks
		FP				6	1.0			70	

Site 259 Hole Core 23 Cored Interval: 207.5-217 m

Site 259 Hole Core 24 Cored Interval: 217-226.5 m

AGE	ZONE	FORMAS	NANNOS	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
LOWER CRETACEOUS	CM	poor arenaceous			1	0.5			18	5Y7/2 nodules
	NONE				2	1.0			75	5Y7/2 specks
	CP				3				74	74
	CP				4				75	5Y7/2 specks
	Core Catcher				5				75	5Y7/2 nodule
										5Y7/2

LITHOLOGIC DESCRIPTION

Moderately to strongly disturbed stiff clay. Chiefly dark greenish gray and olive black with yellowish gray nodules and specks. Nodules are dominantly cemented clay.

CRISTOBALITE CLAY
 Shear slides 1-75, 2-78, 3-75, CC
 Composition
 Clay 85%
 Silt 15%
 Zeolite 1%
 Heavy minerals 1%
 Feldspar, chlorite Tr.

BULK X-RAY (270.3 m)
 Montmorillonite 38%
 Cristobalite 34%
 Quartz 11%
 Mica 6%
 K-feldspar 4%
 Plagioclase 4%
 Kaolinite 3%

Site 259 Hole Core 25 Cored Interval: 226.5-246 m

AGE	ZONE	FORMAS	NANNOS	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
LOWER CRETACEOUS	CM	poor arenaceous			1	0.5			75	5Y6/4 nodule
	NONE				2	1.0			75	5Y7/2 specks
	CP				3				74	74
	CP				4				75	5Y6/4/1 & 5Y2/1
	Core Catcher				5				90	5Y6/4/1 & 5Y2/1
										5Y6/4/1 & 5Y2/1

LITHOLOGIC DESCRIPTION

Weakly to strongly deformed stiff clay. Locally soapy in lower parts. Chiefly dark greenish gray and olive black with specks and nodules of yellowish gray.

CRISTOBALITE CLAY
 Shear slides 1-75, 2-75, 2-125, 3-90, 4-60
 Composition
 Clay 86%
 Silt 14%
 Heavy minerals 1%
 Quartz, feldspar, zeolite Tr.

BULK X-RAY (228.8 m)
 Montmorillonite 38%
 Cristobalite 38%
 Quartz 9%
 Mica 5%
 K-feldspar 4%
 Gypsum 3%
 Plagioclase 2%
 Kaolinite 1%
 Halite Tr.

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
LOWER CRETACEOUS		poor arenaceous	NONE	RVP	1	VOID	-70	GZ 74	Moderately to strongly deformed stiff clay. Colors chiefly dark greenish gray and olive black with dolomite cemented nodules of yellowish gray. Some specks and patches of dusky yellow clay. CRISTOBALITE CLAY Smear slides 1-10, 2-75, 3-70, 5-80, CC Texture Composition Clay 79% Clay and cristobalite 99% Silt 19% Quartz 1% Sand 2% Heavy minerals 1% Feldspar, chlorite, dolomite rhombs, zeolites Tr.
					2				
					3				
					4				
					5				
					Core Catcher				

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
LOWER CRETACEOUS		poor arenaceous	NONE	RVP	1	VOID	-78	GZ 74	Weakly to strongly deformed stiff clay. Locally soupy near base. Chiefly dark greenish gray and olive black with yellowish gray nodules of dolomite cemented clay. CRISTOBALITE SILTY CLAY Smear slides 1-9, 2-43, 3-78, 4-105, 5-75, CC Texture Composition Clay 74% Clay and cristobalite 99% Silt 25% Heavy minerals 1% Quartz, Feldspar, chlorite, zeolite Tr.
					2				
					3				
					4				
					5				
					Core Catcher				

Site 259 Hole Core 27 Cored Interval: 245.5-255 m

Site 259 Hole Core 26 Cored Interval: 236-245.5 m

Site 259 Hole Core 31 Cored Interval: 283.5-293 m

AGE	ZONE	FORMS	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
			NANNOS	RADIOLARIA	OTHERS					
LOWER CRETACEOUS, lower part (based on pollen)	(Pm) Crybelosporites stylus	poor arenaceous	NONE	NONE						
					1	VOID			Weakly to moderately deformed stiff to very stiff clay. Color chiefly dark greenish gray and olive black with nodules of moderate yellowish brown and light gray.	
					2	VOID			QUARTZ CLAY Smear slides 1-75, 2-75, 3-75, 4-75, CC Composition Texture 93% Clay and micro-clay Silt 7% Crystalline quartz 97% Quartz grains 1% Feldspar 1% Heavy minerals 1% Chlorite, dolomite Rhomb, zeolite Tr.	
					3	VOID			10VRS/4 nodules	
					4	VOID			BULK X-RAY (286.8 m) Quartz 52% Montmorillonite 40% Mica 4% K-feldspar 4%	
					5	VOID				
					6	VOID				
					Core Catcher					

Site 259 Hole Core 30 Cored Interval: 274-283.5 m

AGE	ZONE	FORMS	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
			NANNOS	RADIOLARIA	OTHERS					
LOWER CRETACEOUS		poor arenaceous	NONE	NONE						
					1	VOID			Weakly to moderately disturbed stiff clay with dolomite-cemented nodules. Colors chiefly dark greenish gray and olive black with moderate yellowish brown nodules.	
					2	VOID			QUARTZ CLAY Smear slides 1-70, 2-95, 3-83, 4-75, 5-75, 6-75, CC Composition Texture 90% Clay and micro-clay Silt 10% Crystalline quartz 98% Quartz grains 1% Heavy minerals 1% Feldspar, chlorite, dolomite Rhomb, zeolite Tr.	
					3	VOID			BULK X-RAY (277.6 m) Quartz 50% Montmorillonite 42% Mica 4% K-feldspar 4%	
					4	VOID				
					5	VOID				
					6	VOID				
					Core Catcher					

Site 259 Hole Core 37 Cored Interval: 326.5-331 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
						1	0.5	VOID		128	Gray basalt (N3) with some patches of grayish red (10R4/2). Numerous veinlets of calcite.
						2	1.0	VOID			

Site 259 Hole Core 38 Cored Interval: 331-335.5 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
						4	0.5			117	Basalt - dark greenish gray with veinlets of calcite. Non-vesicular, slightly porphyritic, fine-grained. Slightly brecciated.
						2	1.0			118	562/2 patches
						5				119	

Site 259 Hole Core 35 Cored Interval: 315-321.5 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
						1	0.5	VOID			Basalt breccia. Fragments have gray (N7) cores and rims of greenish gray (56Y6/1). Freshest glass is black (N1). Some zones of dark reddish brown (10R2/4). Veinlets of calcite.
						2	1.0			10R3/4	
								Core Catcher			

Site 259 Hole Core 36 Cored Interval: 321.5-326.5 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
						1	0.5	VOID			Basalt breccia. Chiefly dark gray (N3) with rims of grayish green (10G5/2). Some zones of dark reddish brown (10R3/4). Veinlets and patches of calcite and anal. Alteration decreases with depth.
						2	1.0			562/1	
						3					
						4				N3	

Site 259 Hole Core 39 Cored Interval: 335.5-337 m

AGE	ZONE	FOSSIL CHARACTER				METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA	OTHERS					
						0.5 1.0			336	Basalt - dark greenish gray (5G94/1) with veinlets of calcite. Fine-grained, non-porphyrific. Rare pyrite crystals in cavities. A few reddish zones (5G4/2).

Site 259 Hole Core 41 Cored Interval: 340.5-346 m

AGE	ZONE	FOSSIL CHARACTER				METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA	OTHERS					
						0.5 1.0	VOID			Basalt. Medium light gray (5G6) medium grained, with a few porphyritic phenocrysts. Veinlets of calcite and chlorite(?) veinlets. A few red zones (5G4/2).

Site 259 Hole Core 40 Cored Interval: 337-340.5 m

AGE	ZONE	FOSSIL CHARACTER				METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA	OTHERS					
						0.5 1.0	VOID			Basalt. Dark greenish gray (5G94/1) with veinlets of carbonate. Non-vesicular, fine-grained, non-porphyrific.
							VOID			

DEEP SEA DRILLING PROJECT

LEG 27 SITE 260

SITE SUMMARY SHEET

POSITION: Latitude: 16°8.67'S Longitude: 110°17.92'E

Water depth (from sea level): 5702 corrected meters (Echo sounding)

Bottom felt at: 5709 meters (drill pipe) Penetration: 331 meters

Number of Holes: 1 Number of Cores: 20

Total length of cored section: 169.5 meters Total core recovered: 56.7 m

Percentage of core recovery: 33.5%

OLDEST SEDIMENT CORED:

Depth below sea floor: 323 meters Nature: Gray olive clay

Age: Lower Cretaceous Measured Velocity: 1.6 km/sec

BASEMENT:

Depth below sea floor: 0.38 seconds DT (seismic profiler)

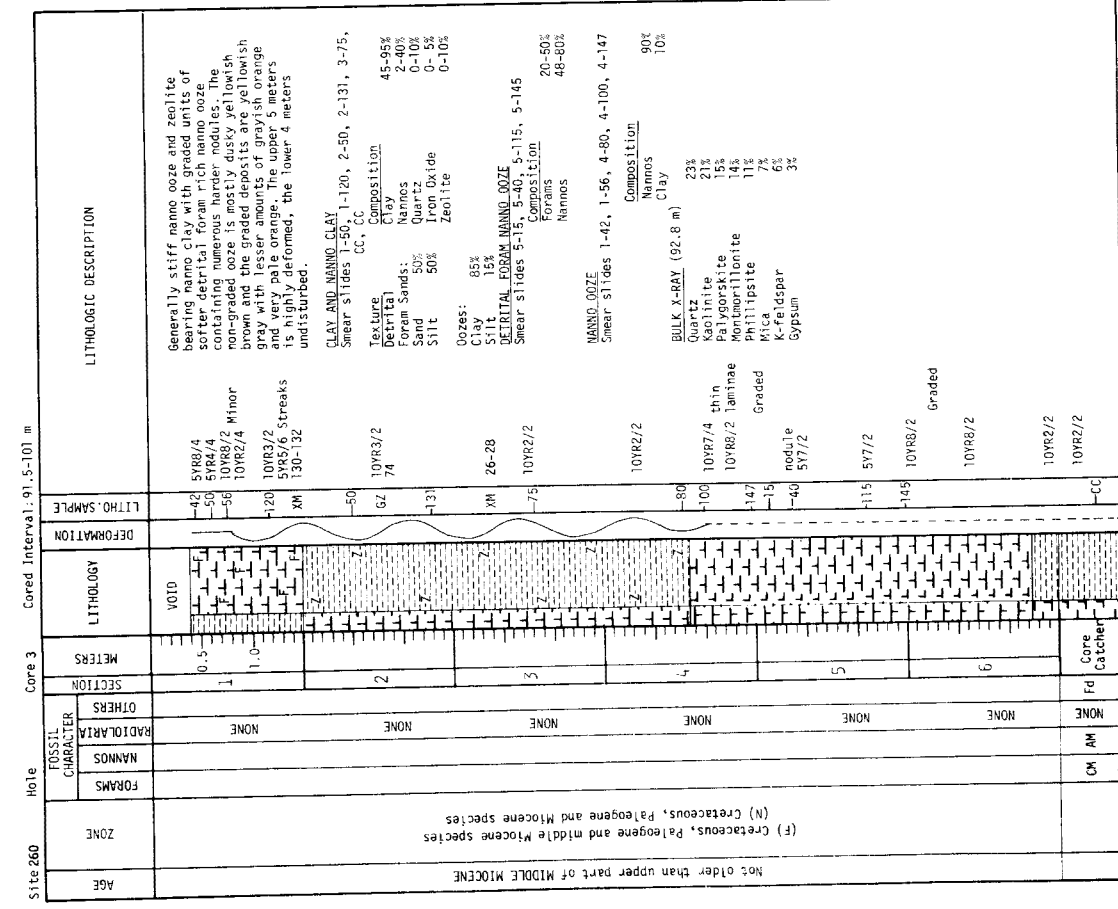
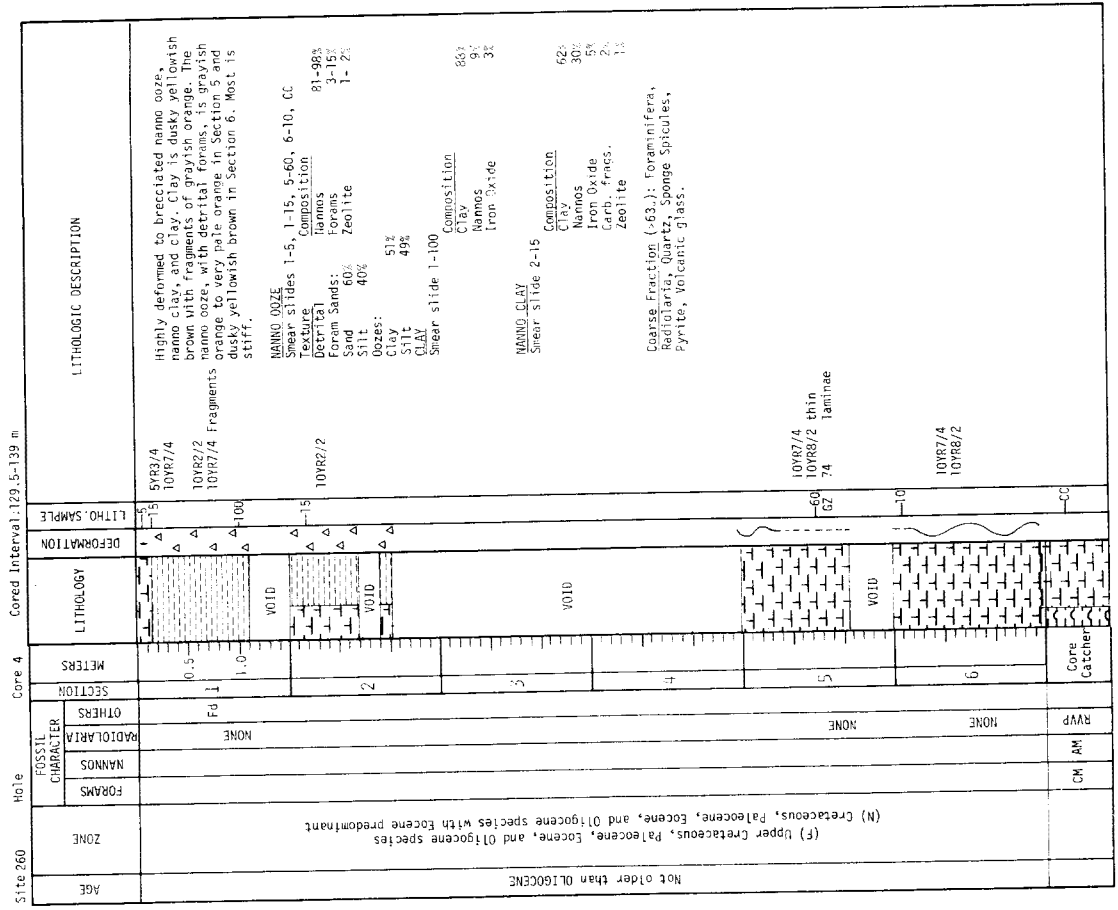
Depth below sea floor: 323 meters (drilled)

Inferred velocity to basement: 1.7 km/sec Nature: Basalt

PRINCIPAL RESULTS:

Site 260 is situated at a depth of 5709 m in the Gascoyne Abyssal Plain at the foot of the Exmouth Plateau. Quaternary to Upper Paleocene well-stratified brown nannoplankton foraminiferal and radiolarian ooze with clay, most of which has been redeposited by turbidity currents, unconformably overlies an acoustically transparent layer of Upper Cretaceous and Albian brown zeolitic clay, Albian nannoplankton ooze and clay, and basal Lower Cretaceous radiolarian and nannoplankton ooze. Acoustic basement, 9 m of which was penetrated and only 1 m recovered, before drilling difficulties intervened, is a fresh coarse-grained basalt, suggesting a sill, but absence of any sign of baking in the immediately overlying sediment makes this suggestion uncertain.

Of particular interest at this site are the basement age of Lower Cretaceous and the Upper Paleocene age of the calcareous turbidites. Since the transparent (Cretaceous) layer is structurally high at this site, older calcareous turbidites must be expected in the area.



Site 260 Hole Core 5 Cored Interval: 156-167.5 m

AGE	ZONE	FOSSIL CHARACTER	METERS	LITHOLOGY	DEFORMATION	LITHOLOGIC DESCRIPTION
Not older than UPPER PALEOCENE	(F) Cretaceous and Paleocene species	CM	1			<p>Mostly disturbed to brecciated clay with minor nanno clay and nanno bearing clay. The clay is moderate brown to dark yellowish brown and the nanno-rich parts are grayish orange. Mostly stiff.</p> <p>NANNO BEARING CLAY Smear slides 6-87, 6-112, CC</p> <p>Texture Territe Clay Composition</p> <p>Foram Sands: Nannos 86-97% Sand 90-100% Quartz 2% Silt 0-10% Iron Oxide 1-5% Clay 90-100% Feldspar Tr. - 5% Silt 0-10%</p> <p>CLAY Smear slide 1-20</p> <p>Composition Clay 93% Quartz 5% Iron Oxide 2%</p> <p>NANNO OOZE Smear slide 1-29 (clast of ooze in clay)</p> <p>Composition Nannos 94% Forams 5% Quartz 1%</p> <p>Coarse Fraction (>63μ): Radiolaria, Silicoflag., Opaque Sphenulites, Iron Oxide Aggregates.</p>
		CM	2			
		CM	3	VOID		
		CM	4			
		CM	5			
		CM	6			
		CM	7			
		CM	8			
		CM	9			
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		CM	24			

Site 260 Hole Core 11 Cored Interval: 253-262.5 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
LOWER CRETACEOUS, ALBIAN	(BF) Middle to Upper Albian	**	AG		0.5	VOID	55	Stiff nanno ooze and clay rich nanno ooze. Chiefly orange pink with lesser amounts of light brown, grayish brown, and dark yellow brown. Laminations observed but are indistinct. Upper ooze is brecciated, lower one is undisturbed.	
			AG	AM	1.0	VOID	90		
			AG	AM	Core Catcher				

MANNO OOZE
Smear slides 1-90, CC
Composition
Nannos 88-90%
Clays 2-2%
Zeolites 1-2%
Forams Tr. - 5%

CLAY RICH MANNO OOZE
Smear slide 1-55
Composition
Nannos 77%
Clay 20%
Zeolites 2%

Coarse Fraction (>63µ): Quartz, Gypsum, Radiolaria, Foraminifera, Gyssum, Storage Spicules, Silicoflag.

Site 260 Hole Core 12 Cored Interval: 262.5-272 m

* (N) Middle to Upper Albian - Prediscosphaera cretacea?
** Hedbergella and benthonic species

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
LOWER CRETACEOUS	(F) Upper Aptian? to Lower Albian (N) Middle to Upper Albian Prediscosphaera cretacea?				0.5		23	Mostly semi-lithified to lithified material including: chert, chalk, clay, nanno ooze. Section 1 contains mostly lithified material that has broken into sections averaging 8-10 cm long. Lower in the core, the material is complete.	
			CS		1.0		65		
			AM		Core Catcher		100		
			FM		2		110		
			AM		2		114		
			FP		Core Catcher		CC		

MANNO OOZE
Smear slides 1-65, 2-40
Texture
Clay 78%
Silt 21%
Zeolites 97%
Tr. - 2%

CLAY
Smear slides 2-70, 2-110, 2-114
Composition
Clay 40-75%
Zeolites 0-25%
Iron Oxides 0-57%
Nannos 0-2%
Felspar 0-2%

MANNO CHALK
Smear slide CC
Composition
Nannos 99%

CHERT
Smear slides 1-23, 1-100
Composition
Siliceous matrix 64-75%
Nannos 2-20%
Clay 10-20%

Site 260 Hole Core 9 Cored Interval: 234-243.5 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
LOWER CRETACEOUS, ALBIAN	(BF) Middle to Upper Albian		AG		0.5	VOID	95	Stiff, dark yellowish brown nanno ooze with two prominent moderate orange pink concretions at 95 and 105 cm. Thin laminations present in some samples.	
			AG	AM	1.0		120		
			AG	AM	Core Catcher		CC		

MANNO OOZE
Smear slides 1-95, 1-120
Composition
Nannos 95-99%
Clays 0-2%
Zeolites 0-2%

Site 260 Hole Core 10 Cored Interval: 243.5-253 m

* (N) Middle to Upper Albian - Prediscosphaera cretacea?

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
LOWER CRETACEOUS, ALBIAN	(BF) Middle to Upper Albian Prediscosphaera cretacea?		AG		0.5		35	Stiff and semi-lithified nanno ooze with minor chalk. The pinkish mottles in the core catcher may be silicified. Chert is present at 22-28 cm in Section 2. Zeolites are present in significant amounts. Chiefly dark yellowish brown with thin lamina, mottles, and nodules of moderate orange pink, dusky yellow brown, and light brown.	
			AG	AM	1.0		60		
			AM		Core Catcher		132		
			RM		2		133		
			AG	AM	Core Catcher		CC		

MANNO OOZE
Smear slides 1-35, 1-80, 1-127, 1-128, 2-60, 2-132, 2-133, CC
Texture
Clay 62%
Silt 33%
Sand 5%
Nannos 75-98%
Zeolites 1-15%
Forams 0-10%
0-1%

Coarse Fraction (>63µ): Gyssum, Foraminifera, Radiolaria

Site 260 Hole Core 12 Cored Interval: 262.5-272 m

* Hedbergella and benthonic species

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
LOWER CRETACEOUS	(F) Upper Aptian? to Lower Albian (N) Middle to Upper Albian Prediscosphaera cretacea?				0.5		23	Mostly semi-lithified to lithified material including: chert, chalk, clay, nanno ooze. Section 1 contains mostly lithified material that has broken into sections averaging 8-10 cm long. Lower in the core, the material is complete.	
			CS		1.0		65		
			AM		Core Catcher		100		
			FM		2		110		
			AM		2		114		
			FP		Core Catcher		CC		

AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
LOWER CRETACEOUS	(F) Upper Aptian? to Lower Albian	FORAMS NONE	OTHERS Cs	0.5 1.0	Indurated nanno ooze (chalk) and stiff nanno rad ooze. Colors generally greenish but browns and yellowish browns present. Disturbance is slight. NANNO RAD. OOZE Shear slide 1-70	5R3/4 10R6/2 565/2 5V5/2 56V5/2	Composition Radiolaria Nannos Clay 50% 30% 20%
		FORAMS NONE	OTHERS Core Catcher		CHALK		Composition Nannos Zeolites 9% 7%

Site 260 Hole Core 13 Cored Interval: 272-281.5 m

AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
LOWER CRETACEOUS	(F) Upper Aptian? to Lower Albian	FORAMS CM	OTHERS Pd 2 FVP	0.5 1.0	Stiff to semi-lithified greenish gray nanno ooze and rad ooze. Colors generally greenish but browns and yellowish browns present locally. Micro scale mottles and cross laminations are present in Section 2. Section 4 has numerous well-laminated nodules with lamina traceable into the matrix. NANNO OOZE Shear slides 2-45, 2-85, 2-132, 4-30, 4-130 Composition Clay Nannos Zeolites 82-90% 0-10% 1-2%	115 45 62 74 85 566/1 132 26-28 566/1 30 564/1 minor 100 566/1 30 566/1 130 CC 595/1	Stiff to semi-lithified greenish gray nanno ooze and rad ooze. Colors generally greenish but browns and yellowish browns present locally. Micro scale mottles and cross laminations are present in Section 2. Section 4 has numerous well-laminated nodules with lamina traceable into the matrix. NANNO OOZE Shear slides 2-45, 2-85, 2-132, 4-30, 4-130 Composition Clay Nannos Zeolites 82-90% 0-10% 1-2%
		FORAMS CM AP Cs	OTHERS Core Catcher				Composition Nannos Clay Zeolites 5-20% 77-90% 2%
		FORAMS AYVP	OTHERS AYVP				Coarse Fraction (>63 μ): Gypsum, Foraminifera, Radiolaria, Iron Oxide Aggregates BULK X-RAY (294.3 m) Quartz 74% Montmorillonite 14% Mica 6% K-feldspar 3% Calcite 3%

Site 260 Hole Core 15 Cored Interval: 291-300.5 m

AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
LOWER CRETACEOUS		FORAMS NONE	OTHERS NONE	0.5 1.0	Greenish gray lithified nodules set in a matrix of semi-lithified material of the same color. Laminations in nodules traced into matrix in one sample indicating they have not been disturbed. RAD. OOZE Shear slide 1-118	82 118	Composition Radiolaria Nannos Clay 92% 2% 5%
		FORAMS RVP AP	OTHERS Core Catcher		ZEOLITE AND NANNO RICH CLAY Shear slide 1-82		73% 10% 10% 5% 5%
		FORAMS NONE	OTHERS Core Catcher		NANNO CHALK Shear slide CC		96% 3% 2%
		FORAMS NONE	OTHERS Core Catcher		Coarse Fraction (>63 μ): Gypsum, Iron Oxide Aggregates.		

Site 260 Hole Core 14 Cored Interval: 281.5-291 m

AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
LOWER CRETACEOUS		FORAMS NONE	OTHERS AYVP	0.5 1.0	Greenish gray clay, semi-lithified and nodular in upper part and stiff in lower part. Two thin zones of rad rich clay and rad ooze at 16 and 150 cm of Section 2. CLAY Shear slides 1-70, 2-40, 2-109, 2-142.	70 9 40 62 74 109 143 149 CC	Composition Clay Radiolaria Iron Oxide Chlorite 88-97% 1-3% 0-10%
		FORAMS NONE	OTHERS Core Catcher				Composition Radiolaria 100%

Site 260 Hole Core 16 Cored Interval: 300.5-310 m

DEEP SEA DRILLING PROJECT

LEG 27 SITE 261

SITE SUMMARY SHEET

POSITION: Latitude: 12°56.83'S Longitude: 117°53.56'EWater depth (from sea level): 5667 corrected meters (Echo sounding)Bottom felt at: 5687 meters (drill pipe) Penetration: 579.5 metersNumber of Holes: 1 Number of Cores: 39Total length of cored section: 342 meters Total core recovered: 125.8 mPercentage of core recovery: 36.78%

OLDEST SEDIMENT CORED:

Depth below sea floor: 532 meters Nature: Nanno claystoneAge: Upper Jurassic (Oxfordian) Measured Velocity: 1.7 to 2.0 km/sec

BASEMENT:

Depth below sea floor: 0.61 seconds DT (seismic profiler)Depth below sea floor: 47 meters (drilled)Inferred velocity to basement: 1.74 km/sec Nature: Top 10 m a sill,
the rest oceanic pillow
basalt

PRINCIPAL RESULTS:

Site 261 is situated at a depth of 5667 m in the northeast Argo Abyssal Plain, about 200 km distant from the foot of the Scott Plateau. Seismic profiles of Lamont-Doherty Geological Observatory show, as at Site 260, two principal layers: a flat-lying well-stratified surface sequence, unconformably overlying a transparent layer that is draped over acoustic basement. Only the upper part of the well-stratified layer is present at this site, and it consists of Quaternary radiolarian clay and Lower Pliocene to Upper Miocene displaced carbonate oozes. The transparent layer comprises Upper Cretaceous brown and gray claystone, and basal Jurassic (Oxfordian) brown nannoplankton claystone. Beneath baked and discolored sediments is a 10 m thick sill of fresh coarse-grained basalt, which overlies a complex of finer-grained and highly altered basalt and pillow basalt breccia. Altogether 47.5 m of basalt was penetrated for a recovery of 29 m. The most important result is the age of the basal sediment of Oxfordian, which makes this the oldest dated sediment in the Indian Ocean.

Site 261 Core 1 Cored Interval: 0 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA				
QUATERNARY	(N) <i>Emiliania</i> ?	RM	RG	AG	Core Catcher	CC	56V4/1 Soft, dark greenish gray clay, rich in diatoms and radiolaria RADIOLARIA AND DIATOM RICH CLAY Smear Slide CC Composition Clay 60% Radiolaria 20% Diatoms 14% Silt/coflag. 3% Sponge Spicules 2% Fe Oxides 1% Nannos Tr. Quartz; Carb. Tr. Volcanic Glass Tr.	

Site 261 Core 3 Cored Interval: 47.5-57 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION	
		FORAMS	NANNOS	RADIOLARIA					
Not older than LOWER PLIOCENE	(F) <i>Globorotalia margaritae</i> (lower Pliocene) (N) <i>Reticulofusa pseudumbilica</i> (lower Pliocene)	AP	AY	NONE	Core Catcher	CC	56V6/1 BULK X-RAY (50.8 m) Calcite 68% Mica 10% Muscovite 10% Koolinite 7% Quartz 5%		
		AP	AY	NONE	Core Catcher	CC	56V6/1 BULK X-RAY (50.8 m) Calcite 68% Mica 10% Muscovite 10% Koolinite 7% Quartz 5%		
Not older than LOWER PLIOCENE	(F) <i>Globorotalia margaritae</i> (lower Pliocene) (N) <i>Reticulofusa pseudumbilica</i> (lower Pliocene)	NONE	NONE	NONE	1	VOID	106 56V2/1 113 56V3/1 115 56V4/1 149 56V5/1 56V6/1	Predominantly stiff greenish gray clay, rich in nannos and also foraminifera in one sample. However, some samples, e.g. at 115, 116, 118, 119, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	
		NONE	NONE	NONE	2		67 74	Texture Clay 84% Silt 16% Composition Nannos 85-90% Clay 10-15% Quartz 2-3% Feldspar Tr.-3% Heavy Minerals, Fe Oxides, Dolomite, and Carb. Frag. Tr.	
		NONE	NONE	NONE	3			116 56V1/1 118 56V2/1 119 56V3/1 148 56V6/1 56V7/1 26-28 56V6/1 48 56V6/1 56V7/1 56V8/1 56V9/1 56V10/1 56V11/1 56V12/1 56V13/1 56V14/1 56V15/1 56V16/1 56V17/1 56V18/1 56V19/1 56V20/1 56V21/1 56V22/1 56V23/1 56V24/1 56V25/1 56V26/1 56V27/1 56V28/1 56V29/1 56V30/1 56V31/1 56V32/1 56V33/1 56V34/1 56V35/1 56V36/1 56V37/1 56V38/1 56V39/1 56V40/1 56V41/1 56V42/1 56V43/1 56V44/1 56V45/1 56V46/1 56V47/1 56V48/1 56V49/1 56V50/1 56V51/1 56V52/1 56V53/1 56V54/1 56V55/1 56V56/1 56V57/1 56V58/1 56V59/1 56V60/1 56V61/1 56V62/1 56V63/1 56V64/1 56V65/1 56V66/1 56V67/1 56V68/1 56V69/1 56V70/1 56V71/1 56V72/1 56V73/1 56V74/1 56V75/1 56V76/1 56V77/1 56V78/1 56V79/1 56V80/1 56V81/1 56V82/1 56V83/1 56V84/1 56V85/1 56V86/1 56V87/1 56V88/1 56V89/1 56V90/1 56V91/1 56V92/1 56V93/1 56V94/1 56V95/1 56V96/1 56V97/1 56V98/1 56V99/1 56V100/1	NANNO RICH TO NANNO BEARING CLAY Smear slides 2-115, 3-90 Composition Clay 85-90% Nannos 5-15%
		NONE	NONE	NONE	4			49 56V1/1 67 56V1/1 69 56V1/1 90 56V1/1 106 56V1/1 128 56V1/1 134 56V1/1 137 56V1/1 140 56V1/1 141 56V1/1 142 56V1/1 143 56V1/1 144 56V1/1 145 56V1/1 146 56V1/1 147 56V1/1 148 56V1/1 149 56V1/1 150 56V1/1 151 56V1/1 152 56V1/1 153 56V1/1 154 56V1/1 155 56V1/1 156 56V1/1 157 56V1/1 158 56V1/1 159 56V1/1 160 56V1/1 161 56V1/1 162 56V1/1 163 56V1/1 164 56V1/1 165 56V1/1 166 56V1/1 167 56V1/1 168 56V1/1 169 56V1/1 170 56V1/1 171 56V1/1 172 56V1/1 173 56V1/1 174 56V1/1 175 56V1/1 176 56V1/1 177 56V1/1 178 56V1/1 179 56V1/1 180 56V1/1 181 56V1/1 182 56V1/1 183 56V1/1 184 56V1/1 185 56V1/1 186 56V1/1 187 56V1/1 188 56V1/1 189 56V1/1 190 56V1/1 191 56V1/1 192 56V1/1 193 56V1/1 194 56V1/1 195 56V1/1 196 56V1/1 197 56V1/1 198 56V1/1 199 56V1/1 200 56V1/1 201 56V1/1 202 56V1/1 203 56V1/1 204 56V1/1 205 56V1/1 206 56V1/1 207 56V1/1 208 56V1/1 209 56V1/1 210 56V1/1 211 56V1/1 212 56V1/1 213 56V1/1 214 56V1/1 215 56V1/1 216 56V1/1 217 56V1/1 218 56V1/1 219 56V1/1 220 56V1/1 221 56V1/1 222 56V1/1 223 56V1/1 224 56V1/1 225 56V1/1 226 56V1/1 227 56V1/1 228 56V1/1 229 56V1/1 230 56V1/1 231 56V1/1 232 56V1/1 233 56V1/1 234 56V1/1 235 56V1/1 236 56V1/1 237 56V1/1 238 56V1/1 239 56V1/1 240 56V1/1 241 56V1/1 242 56V1/1 243 56V1/1 244 56V1/1 245 56V1/1 246 56V1/1 247 56V1/1 248 56V1/1 249 56V1/1 250 56V1/1 251 56V1/1 252 56V1/1 253 56V1/1 254 56V1/1 255 56V1/1 256 56V1/1 257 56V1/1 258 56V1/1 259 56V1/1 260 56V1/1 261 56V1/1 262 56V1/1 263 56V1/1 264 56V1/1 265 56V1/1 266 56V1/1 267 56V1/1 268 56V1/1 269 56V1/1 270 56V1/1 271 56V1/1 272 56V1/1 273 56V1/1 274 56V1/1 275 56V1/1 276 56V1/1 277 56V1/1 278 56V1/1 279 56V1/1 280 56V1/1 281 56V1/1 282 56V1/1 283 56V1/1 284 56V1/1 285 56V1/1 286 56V1/1 287 56V1/1 288 56V1/1 289 56V1/1 290 56V1/1 291 56V1/1 292 56V1/1 293 56V1/1 294 56V1/1 295 56V1/1 296 56V1/1 297 56V1/1 298 56V1/1 299 56V1/1 300 56V1/1 301 56V1/1 302 56V1/1 303 56V1/1 304 56V1/1 305 56V1/1 306 56V1/1 307 56V1/1 308 56V1/1 309 56V1/1 310 56V1/1 311 56V1/1 312 56V1/1 313 56V1/1 314 56V1/1 315 56V1/1 316 56V1/1 317 56V1/1 318 56V1/1 319 56V1/1 320 56V1/1 321 56V1/1 322 56V1/1 323 56V1/1 324 56V1/1 325 56V1/1 326 56V1/1 327 56V1/1 328 56V1/1 329 56V1/1 330 56V1/1 331 56V1/1 332 56V1/1 333 56V1/1 334 56V1/1 335 56V1/1 336 56V1/1 337 56V1/1 338 56V1/1 339 56V1/1 340 56V1/1 341 56V1/1 342 56V1/1 343 56V1/1 344 56V1/1 345 56V1/1 346 56V1/1 347 56V1/1 348 56V1/1 349 56V1/1 350 56V1/1 351 56V1/1 352 56V1/1 353 56V1/1 354 56V1/1 355 56V1/1 356 56V1/1 357 56V1/1 358 56V1/1 359 56V1/1 360 56V1/1 361 56V1/1 362 56V1/1 363 56V1/1 364 56V1/1 365 56V1/1 366 56V1/1 367 56V1/1 368 56V1/1 369 56V1/1 370 56V1/1 371 56V1/1 372 56V1/1 373 56V1/1 374 56V1/1 375 56V1/1 376 56V1/1 377 56V1/1 378 56V1/1 379 56V1/1 380 56V1/1 381 56V1/1 382 56V1/1 383 56V1/1 384 56V1/1 385 56V1/1 386 56V1/1 387 56V1/1 388 56V1/1 389 56V1/1 390 56V1/1 391 56V1/1 392 56V1/1 393 56V1/1 394 56V1/1 395 56V1/1 396 56V1/1 397 56V1/1 398 56V1/1 399 56V1/1 400 56V1/1 401 56V1/1 402 56V1/1 403 56V1/1 404 56V1/1 405 56V1/1 406 56V1/1 407 56V1/1 408 56V1/1 409 56V1/1 410 56V1/1 411 56V1/1 412 56V1/1 413 56V1/1 414 56V1/1 415 56V1/1 416 56V1/1 417 56V1/1 418 56V1/1 419 56V1/1 420 56V1/1 421 56V1/1 422 56V1/1 423 56V1/1 424 56V1/1 425 56V1/1 426 56V1/1 427 56V1/1 428 56V1/1 429 56V1/1 430 56V1/1 431 56V1/1 432 56V1/1 433 56V1/1 434 56V1/1 435 56V1/1 436 56V1/1 437 56V1/1 438 56V1/1 439 56V1/1 440 56V1/1 441 56V1/1 442 56V1/1 443 56V1/1 444 56V1/1 445 56V1/1 446 56V1/1 447 56V1/1 448 56V1/1 449 56V1/1 450 56V1/1 451 56V1/1 452 56V1/1 453 56V1/1 454 56V1/1 455 56V1/1 456 56V1/1 457 56V1/1 458 56V1/1 459 56V1/1 460 56V1/1 461 56V1/1 462 56V1/1 463 56V1/1 464 56V1/1 465 56V1/1 466 56V1/1 467 56V1/1 468 56V1/1 469 56V1/1 470 56V1/1 471 56V1/1 472 56V1/1 473 56V1/1 474 56V1/1 475 56V1/1 476 56V1/1 477 56V1/1 478 56V1/1 479 56V1/1 480 56V1/1 481 56V1/1 482 56V1/1 483 56V1/1 484 56V1/1 485 56V1/1 486 56V1/1 487 56V1/1 488 56V1/1 489 56V1/1 490 56V1/1 491 56V1/1 492 56V1/1 493 56V1/1 494 56V1/1 495 56V1/1 496 56V1/1 497 56V1/1 498 56V1/1 499 56V1/1 500 56V1/1	DETRITAL FORAM NANNO OOZE Smear slides 4-123, 4-124 Composition Nannos 60-60% Forams 40-50%
NONE	NONE	NONE	5			116 56V1/1 118 56V2/1 119 56V3/1 148 56V6/1 56V7/1 26-28 56V6/1 48 56V6/1 56V7/1 56V8/1 56V9/1 56V10/1 56V11/1 56V12/1 56V13/1 56V14/1 56V15/1 56V16/1 56V17/1 56V18/1 56V19/1 56V20/1 56V21/1 56V22/1 56V23/1 56V24/1 56V25/1 56V26/1 56V27/1 56V28/1 56V29/1 56V30/1 56V31/1 56V32/1 56V33/1 56V34/1 56V35/1 56V36/1 56V37/1 56V38/1 56V39/1 56V40/1 56V41/1 56V42/1 56V43/1 56V44/1 56V45/1 56V46/1 56V47/1 56V48/1 56V49/1 56V50/1 56V51/1 56V52/1 56V53/1 56V54/1 56V55/1 56V56/1 56V57/1 56V58/1 56V59/1 56V60/1 56V61/1 56V62/1 56V63/1 56V64/1 56V65/1 56V66/1 56V67/1 56V68/1 56V69/1 56V70/1 56V71/1 56V72/1 56V73/1 56V74/1 56V75/1 56V76/1 56V77/1 56V78/1 56V79/1 56V80/1 56V81/1 56V82/1 56V83/1 56V84/1 56V85/1 56V86/1 56V87/1 56V88/1 56V89/1 56V90/1 56V91/1 56V92/1 56V93/1 56V94/1 56V95/1 56V96/1 56V97/1 56V98/1 56V99/1 56V100/1	CLAY Smear slides 3-140, 4-137 Composition Clay 98% Nannos 1%		

Site 261 Core 2 Cored Interval: 9.5-19.0 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY
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Site 261 Hole Core 11 Cored Interval: 218.5-228 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
UPPER CRETACEOUS		Primitive arenaceous				1	VOID		6N6 3N3 2N2 7N7 4N4 567/1 567/2 1094/2	Dark gray claystone. Thin (1 mm) alternations of light gray and dark gray clay in rapidly tensing beds. Transverse burrows, about 0.8 cm in diameter and filled with limonitic siltstone, color dark yellowish orange (10YR6/6) occur in core catcher.
		RP	NONE			Core Catcher				CLAYSTONE Shear siltde CC Composition Clay 99% Heavy Minerals 1%

Site 261 Hole Core 12 Cored Interval: 228-237.5 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
UPPER CRETACEOUS (based on Radiolaria)		Primitive arenaceous species				1	VOID		567/1 2N2 3N3 26-28 3N3 567/1 567/2 567/1 6N6 4N4 567/1 567/2 567/2 3N3	Dark gray, semi-lithified claystone. In the bottom 18 cm of Section 2, the dark gray claystone is speckled and laminated with light colored inclusions.
		RP	NONE			Core Catcher				CLAYSTONE Shear siltde 2-10, CC Composition Clay 96-99% Feldspar 0-2% Quartz 0-1% Nannos 0-1% BULK X-RAY (232.7 m) Rhodnite 59% Cristobalite 25% Montmorillonite 8% Gypsum 3% Mica 3% Quartz 2%

Site 261 Hole Core 13 Cored Interval: 234.5-247 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
*		RP	NONE			Core Catcher			567/1	Dark greenish gray, semi-lithified claystone.
		**	NONE			Core Catcher				CLAYSTONE Shear siltde CC Composition Clay 99% Carbonate 1% Heavy Minerals 1%

*UPPER CRETACEOUS (based on Radiolaria)
**Primitive arenaceous species

Site 261 Hole Core 14 Cored Interval: 247-256.5 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
CRETACEOUS		NONE				1			567/1 567/1 567/1 567/1 4N4 3N3	Semi-lithified claystone, generally dark greenish gray in color. Drilling breccia occurs 50-70 cm.
						Core Catcher				CLAYSTONE Shear siltde 1-70, 1-71, CC Composition Clay 90-99% Feldspar 0-10% Heavy Minerals Tr.-2% Zeolite, Quartz, and Carbonate Tr.

Site 261 Hole Core 15 Cored Interval: 256.5-266.0 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
CRETACEOUS		NONE				1			3N3 2N2 3N3 2N2 567/1 3-3	Semi-lithified claystone, predominantly dark gray in color with light gray speckles and streaks. Some sections of the core are brecciated.
						Core Catcher				CLAYSTONE Shear siltde 1-33, CC Composition Clay 100% Feldspar, Carbonate, Heavy Minerals, and Micro nodules Tr. CALCAREOUS CLAYSTONE Shear siltde CC Composition Clay 50% Calc. Frag. 50%

Site 261 Hole Core 16 Cored Interval: 266-275.5 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
CRETACEOUS		NONE				1	VOID		3N3 2N2 3N3 4N4 567/1 567/1 2N2	Semi-lithified claystone, predominantly dark gray in color. Some of the core is brecciated.
						Core Catcher				CLAYSTONE Shear siltde 1-100, CC Composition Clay 88-98% Frag. Carb. Frag. 0-10% Heavy Minerals 1-2% Feldspar 0-1%

Site 261 Hole Core 19 Cored Interval: 304-313.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
UPPER? CRETACEOUS		NONE	NONE		1	VOID			
				2			4N4-3N3	<p>QUARTZ CLAYSTONE</p> <p>Semi-lithified claystone, predominantly medium dark gray in color, with intercalated dark laminations. Darker color probably due to greater content of organic carbon. In section 1 (117-122) there is a dense mineralized nodule, possibly barite.</p> <p>Smear slides 2-75, 3-75, 4-75, 5-39, 5-75.</p> <p>Texture Clay 87% Silt 13%</p> <p>Composition Quartz 98-99% Feldspar 1% Heavy Minerals 1% Carbonate, and Nannos Tr.</p>	
				3			33-35 4N4	<p>DETRITAL CALcareous CLAYEY SAND</p> <p>Smear slide 4-64</p> <p>Composition Carbonate 60% Clay 40% Heavy Minerals Tr.</p>	
				4			90 56A/1	<p>BUK X-RAY (307.3 m)</p> <p>Quartz 56% Montmorillonite 28% Mica 9% K-feldspar 4% Gypsum 3%</p>	
				5			4N4-3N3 8N8 GZ 74 75		
				6			64 75		
				Core Catcher			4N4		

Site 261 Hole Core 17 Cored Interval: 275.5-285 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
CRETA-CEOUS		NONE	NONE		Core Catcher		4N4 1N1	<p>Semi-stiff clay; dark gray and black in color.</p> <p>CLAYSTONE</p>	

Site 261 Hole Core 18 Cored Interval: 285.0-294.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
UPPER CRETACEOUS (based on Radiolaria)		NONE	NONE		Core Catcher		22-3 1726 126-9 4N4 5N3 5N3/1	<p>Stiff clay, dark greenish gray and medium gray in color. Slightly calcareous.</p> <p>CLAY</p> <p>Smear slides 1-122, 1-123, 1-126, 1-128, 1-129, CC</p> <p>Composition Clay 90-100% Carb. Frag. 0-10% Heavy Minerals Tr. 1% Feldspar 0-1% Quartz, Dolomite, Nannos, Zopal, and Forisoballite Tr.</p>	

Site 261 Hole Core 23 Cored Interval: 361.0-370.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA				
CRETACEOUS	UPPER CRETACEOUS (based on Radiolaria)	NONE	NONE	AVP	Core Catcher	CC 10R3/6		
		NONE	NONE	CP	2	6Z 74 5N5 75 4N4	<p>Semi-lithified claystone, predominantly dark gray, though Section 1 has brown tints. Dark reddish brown claystone in the core catcher.</p> <p>QUARTZ SILTY CLAYSTONE Smear slides 1-85, 2-75, CC Composition Texture: 66% Clay and Micro-clay Silt 32% Quartz 99-100% Heavy Minerals 0- Tr. Feldspar, Carbonate, Chlorite Tr.</p> <p>LIMESTONE Smear slide 1-14 Composition Carb. Frag. 100%</p> <p>BULK X-RAY (364.3 m) Quartz 42% Montmorillonite 21% Mica 12% Palygorskite 9% Barite 9% K-feldspar 6% Pyrite 1%</p>	
		NONE	NONE	OTHERS	1	5N6/1 5R6/1 6N6 5R4/1 5R4/1 5N5 4N4		

Site 261 Hole Core 25 Cored Interval: 399.0-408.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA				
CRETACEOUS		NONE	NONE	NONE	Core Catcher	CC 3N3		
		No sample taken	No sample taken	RYP	3	4N4		
		No sample taken	No sample taken	OTHERS	2	6N6 4N4		
VOID					1	5N6/1 5N5	<p>Semi-lithified claystone, predominantly dark gray, with darker gray and black horizontal streaks throughout.</p> <p>QUARTZ CLAYSTONE Smear slide CC Composition Clay and Micro-crystalline 100% Quartz Chlorite, Feldspar, Heavy Minerals Tr.</p> <p>BULK X-RAY (401.0 m) Quartz 86% Montmorillonite 5% Mica 4% K-feldspar 4% Barite 1%</p>	
					0.5	XR 45-47		

Site 261 Hole Core 24 Cored Interval: 380.0-389.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA				
CRETACEOUS		NONE	NONE	CVP	Core Catcher	CC 4N4 CC 3N3		
		NONE	NONE	RYP Pm	2	6Z 68 4N4		
		NONE	NONE	OTHERS	1	4N4 5N5	<p>Semi-lithified claystone, predominantly dark gray in color. The rock is uniformly streaked with black throughout. Sticker-sided areas within the core occur at 2 (90-100) and 2 (115-122).</p> <p>QUARTZ CLAYSTONE Smear slides CCT, CC2 Composition Texture: 94% Clay and Micro-clay Silt 6% Quartz 99-100% Heavy Minerals Tr. 1% Feldspar, Carbonate 0- Tr.</p>	
VOID					0.5			
					1.0			

Site 261 Hole Core 26 Cored Interval: 418.0-427.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA				
CRETACEOUS		NONE	NONE	FVP	Core Catcher	CC 3N3		
		No sample taken	No sample taken	CVP	2	5N5 4N4		
		No sample taken	No sample taken	OTHERS	1	XR 28-30 6N6 5N5	<p>Lithified claystone, predominantly dark gray and black horizontal streaks. Light at 1-56 (dark in color) several light gray nodules at 2 (53-67). The carbonate rich clay and the chalk are not distinguishable megascopically.</p> <p>QUARTZ CLAYSTONE Smear slide CC Composition Clay and Micro-crystalline 98% Quartz 2% Heavy Minerals Tr. Fe Oxide Tr.</p> <p>CARBONATE RICH CLAY Smear slide 2-1 Composition Clay 78% Carbonate 20% Heavy Minerals 1% Feldspar Tr.</p> <p>CHALK Smear slide 2 - (100-115) Composition Carbonate 100%</p> <p>BULK X-RAY (418.3 m) Quartz 91% Montmorillonite 2% Mica 1% Barite 1% Pyrite 1%</p>	
VOID					0.5			
					1.0			

Site 261 Hole Core 36 Cored Interval: 551.0-552.5 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
						1	0.5	VOID		10Y4/2 calcite 10R3/4	Fourteen pieces of basalt, dark greenish gray in color. <u>BASALT</u>
						1	1.0				

Site 261 Hole Core 37 Cored Interval: 552.5-560.5 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
						1	0.5	VOID		10Y4/2 10YR4/2 10G4/2	Eight pieces of basalt and decomposed basalt in Section 1. Eleven pieces in Section 2 and seventeen pieces in Section 3. The basalt is weathered to a fine grained hard yellowish brown rock, and also to a grayish green mineral. There are numerous calcite-filled cracks in the basalt. <u>BASALT</u> <u>DECOMPOSED BASALT</u>
						2					
						3					

Site 261 Hole Core 35 Cored Interval: 541.5-551.0 m

AGE	ZONE	FORAMS	NANNOS	RADIOLARIA	OTHERS	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
						1	0.5			10Y4/2 calcite vein 5R3/4	Basalt, containing calcite veins. The surface texture of the rock suggests slight decomposition and possibly a grain size coarser than that occurring elsewhere in the basalt. A finer-textured and seemingly fresher basalt occurs in Section 2 (117-150). In Section 3 the basalt contains dusky red calcite and white calcite veins and some limestone breccia in the lower part of this core - below 111 m. The core consists of soft breccia, which is almost certainly drilling breccia, containing fresh chips of basalt and pink clay and fragments of calcite in a brown clay matrix. <u>BASALT</u> <u>LIMESTONE</u> <u>BRECCIA</u>
						2					
						3					
						4				10Y4/2	
						5				5YR3/4	
						5				5YR3/4	
						Core Catcher					

Site 261 Hole Core 39 Cored Interval: 570.0-579.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
					1				Fresh and decomposed basalt, containing inclusions of green secondary mineral and veins of calcite. BASALT

Site 261 Hole Core 38 Cored Interval: 560.5-570.0 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
					1	VOID			The basalt in this core is largely decomposed to a yellowish brown fine grained rock and a green waxy mineral. Numerous calcite veins are present. BASALT DECOMPOSED BASALT.
					2		10YR4/2 10YR3/2 10G4/2 10Y4/2		
					3		5R3/4		
					4		colors repeat		
					5				

DEEP SEA DRILLING PROJECT

LEG 27 SITE 262

SITE SUMMARY SHEET

POSITION: Latitude: 10°52.19'S Longitude: 123°50.78'E

Water depth (from sea level): 2298 corrected meters (Echo sounding)

Bottom felt at: 2315 meters (drill pipe) Penetration: 442 meters

Number of Holes: 1 Number of Cores: 47

Total length of cored section: 442 meters Total core recovered: 365.5 m

Percentage of core recovery: 82.69

OLDEST SEDIMENT CORED:

Depth below sea floor: 442 meters Nature: Calcarenite

Age: Pliocene Measured Velocity: - -

BASEMENT: Not reached

PRINCIPAL RESULTS:

Site 262 near the axis of the western part of the Timor Trough, penetrated a wedge of flat-lying sediments that thickens towards Timor and overlies a north-dipping sequence from the southern flank of the Trough. The sediments comprise 414 m of Quaternary and Upper Pliocene planktonic ooze overlying 13 m of Upper Pliocene shallow marine foraminiferal dolomitic mud and 15 m (to total depth) of Upper Pliocene very shallow marine dolomitic shell calcarenite. The salinity of the interstitial water in the sediments increases downward to a measured recorded value of 53 parts per thousand, and is interpreted as possibly indicating a salt body a short distance below.

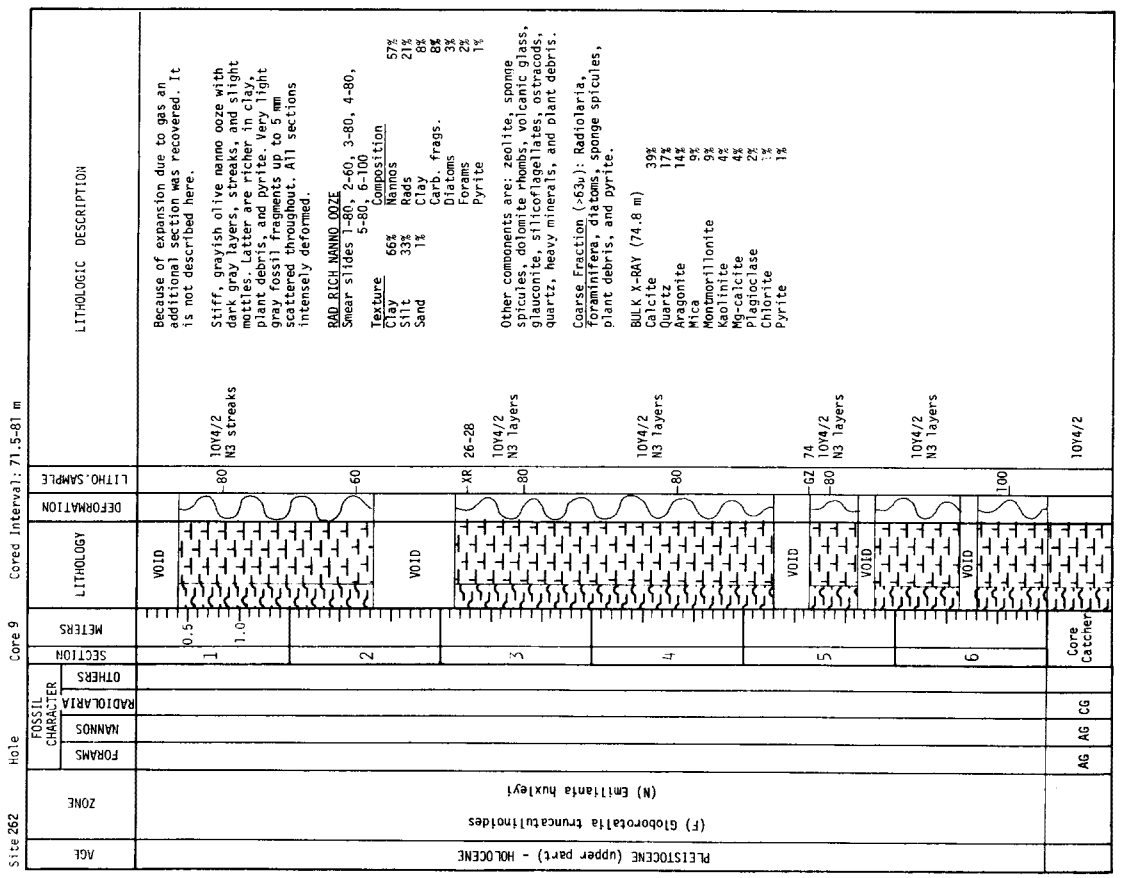
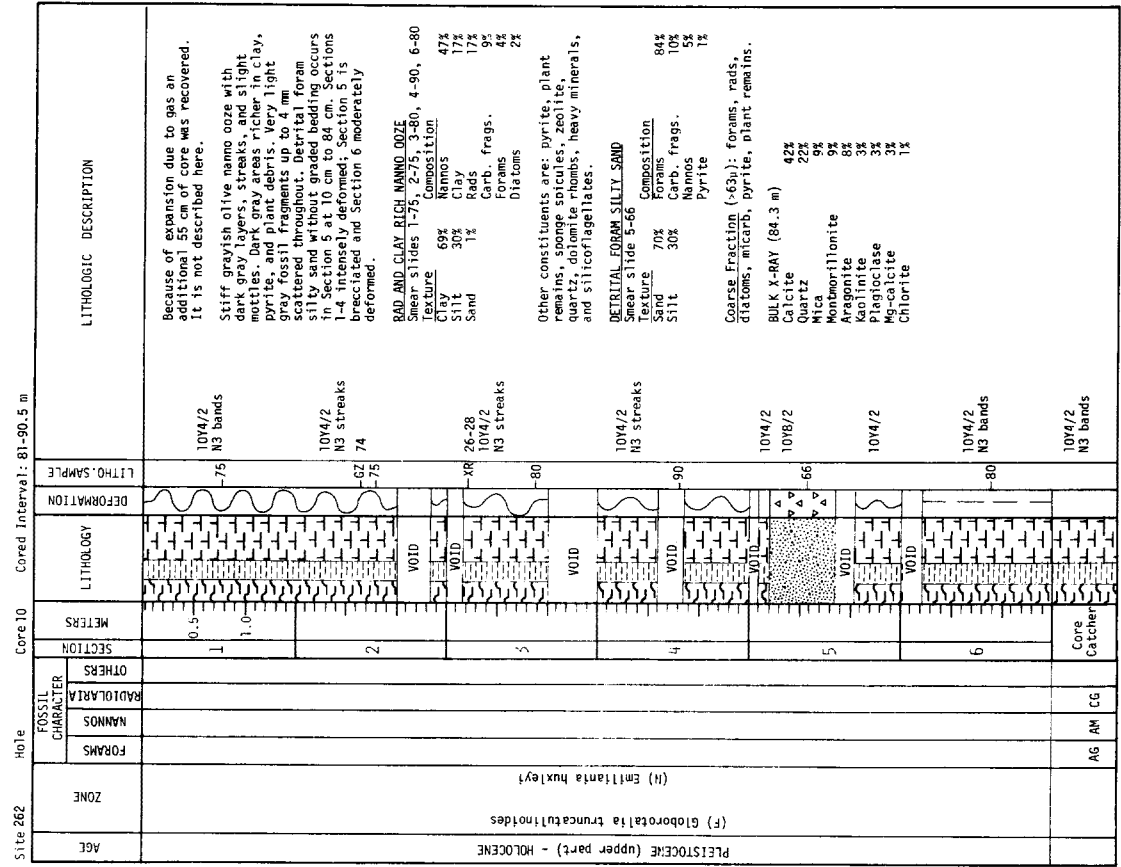
Site 262 Hole Core 6 Cored Interval: 43-52.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
AG	AG AG CG				1	VOID	104/2 N3 streaks	Stiff, olive gray clay rich nanno ooze. Dark gray streaks and bands of clay and plant debris. Intense deformation in sections 2, 3, 4, and 5; moderate deformation in rest of 4 and 5 and 6.	
					2	VOID	80 5/3/2 N3 layers	CLAY RICH NANNO OOZE Smear slides 1-80, 2-75, 3-70, 4-80, 5-80, CC Texture Clay 67% Silt 32% Sand 1% Composition Nannos 35% Clay 12% Carb. frags. 17% Forams 2% Pyrite 2% Diatoms 2%	
					3	VOID	145 -GZ 26 5/3/2 N3 layers	Other components are: feldspar, chert, sponge spicules, plant debris, zeolite, heavy minerals, silicoflagellates, dolomite rhombs, and ostracods.	
					4	VOID	5/3/2 N3 layers	Coarse Fraction (>63µ): forams, rads, sponge spicules, diatoms, and pyrite.	
					5	VOID	-GZ 74 -80		
					6	VOID	5/3/2 N3 layers		
				Core Catcher			CC		

Site 262 Hole Core 5 Cored Interval: 33.5-43 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
AG	AG AM FG				1	VOID	100 104/2	Stiff, grayish olive clay rich nanno ooze with dark gray streaks, bands, and blebs. Intense deformation in sections 3, 4, and 5; moderate in 1 and 6. Clay and plant debris more abundant in dark layers.	
					2	VOID	104/3 N3 bands	CLAY RICH NANNO OOZE Smear slides 1-100, 3-75, 4-75, 5-75, 6-75 Texture Clay 65% Silt 34% Sand 1% Composition Nannos 36% Clay 23% Rads 18% Carb. frags. 10% Forams 5% Diatoms 5% Pyrite 2%	
					3	VOID	-XR -75 5/3/2 N3 streaks	Other components are: quartz, dolomite rhombs, zeolite, feldspar, heavy minerals, sponge spicules, plant debris, silicoflagellates, and volcanic glass.	
					4	VOID	-75 5/3/2	Coarse Fraction (>63µ): forams, rads, sponge spicules, diatoms, molluscs, plant debris, and pyrite.	
					5	VOID	-GZ 74 -75	BULK X-RAY (36.8 m) Calcite 40% Quartz 19% Montmorillonite 13% Mica 10% Aragonite 7% Kaolinite 4% Mg-calcite 3% Plagioclase 3% Chlorite 1%	
					6	VOID	113 bands 104/2		
				Core Catcher			104/2		

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Site 262 Hole Core 12 Cored Interval: 100-109.5 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORMAS	NANNOS	RADIOLARIA				
PLEISTOCENE (upper part) - HOLOCENE	(f) Globobulimina truncatulinoides (H) Emiliania huxleyi				SECTION 1	0.5-1.0	5Y3/2 N3 streaks	Because of expansion due to gas an additional 60 cm of core was recovered. It is not described here. Soft to stiff greenish gray nanno ooze with dark gray layers, streaks, and slight mottles. Dark areas richer in pyrite, clay, and plant debris. Sections 2, 3, and 4 are detrital foram silty sands and sands that are graded. They probably represent multiple turbidites. Sections 1, 5, and 6 moderately deformed; Sections 2, 3, and 4 slightly deformed.
					SECTION 2	1.0	10Y4/2 N3 streaks	MICARR-RICH NANNO-OOZE Smear slides 1-120, 6-75, CC Composition Nannos 57% Carb. frags. 18% Clay 10% Forams 5% Rads 3%
					SECTION 3	2-3	26-28 56Y6/1	Other components are: quartz, heavy minerals, pyrite, zeolite, diatoms and sponge spicules.
					SECTION 4	4	56Y6/1	DETRITAL FORAM SILT AND CLAYEY SILT Smear slides 3-70 (sand), and 4-100, 5-90 (silty sand) Textures Composition Forams 51% Nannos 20% Silt 34% Clay 46% Quartz 15% Carb. frags. 3% Rads 3%
					SECTION 5	5	5Y3/2 GZ 74 90 N3 laminae	Other components are: quartz, heavy minerals, zeolite, diatoms, sponge spicules, plant debris, and pyrite. Coarse Fraction (>63µ): forams, rads, micarb, diatoms, echinoid spines, and sponge spicules. BULK X-RAY (103.3 m) Aragonite 42% Calcite 37% Mg-calcite 8% Quartz 6% Montmorillonite 3% Mica 2% Chlorite 1% Clinoptilolite 1% Pyrite Tr. Siderite Tr.
					SECTION 6	6	10Y4/2 N3 layers	
			Core Catcher			CC 10Y4/2		

Site 262 Hole Core 11 Cored Interval: 90.5-100 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORMAS	NANNOS	RADIOLARIA				
PLEISTOCENE (upper part) - HOLOCENE	(f) Globobulimina truncatulinoides (H) Emiliania huxleyi				SECTION 1	0.5-1.0	5Y3/2 N3 layers	Because of expansion due to gas an additional 50 cm of core was recovered. It is not described here. Stiff, grayish olive nanno ooze with dark gray layers, streaks, and slight mottles. Dark gray areas richer in pyrite, clay, and plant debris. Very little gray silt and sand. Detrital foram silty sand throughout. Detrital foram silty sand between 130-140 cm in Section 6. Sections 1, 2, 3, and 4 intensely deformed; Sections 5 and 6 moderately deformed.
					SECTION 2	1.0	5Y3/2 60 N3 layers GZ 74	BAD-RICH NANNO-OOZE Smear slides 1-80, 2-60, 3-105, 4-90, 5-60 Texture Composition Nannos 60% Rads 12% Silt 10% Sand 3% Mcarb 8% Clay 4% Forams 2% Quartz 2% Diatoms 1% Sponge spicules 1%
					SECTION 3	2-3	26-28 5Y3/2 N3 layers	Other constituents are: feldspar, zeolite, plant debris, dolomite rhombs. Heavy minerals, ostracods, and silicoflagellates.
					SECTION 4	4	5Y3/2 N3 layers	DETRITAL FORAM SILTY SAND Smear slide 6-125 Texture Composition Sand 60% Silt 40% Forams 59% Nannos 10% Mcarb 10% Quartz 5%
					SECTION 5	5	5Y3/2 GZ 74 80 N3 streaks	Rads, feldspar, heavy minerals, pyrite, sponge spicules, and plant debris constitute rest. Coarse Fraction (>63µ): forams, rads, sponge spicules, diatoms, micarb, pyrite, and plant debris. BULK X-RAY (93.8 m) Calcite 38% Quartz 12% Montmorillonite 11% Kaolinite 4% Aragonite 4% Plagioclase 3% Mg-calcite 2% Chlorite 1%
					SECTION 6	6	10Y4/2 N3 layers	
			Core Catcher			CC		

Site 262 Hole Core 14 Cored Interval: 119-128.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	HANNOS	RADOLARIA					
PLISTOCENE (upper part) - HOLOCENE	(F) Globorotalia truncatulinoides (N) Emiliana huxleyi	AG AM CG			1 0.5		75	<p>Because of expansion due to gas an additional 50 cm of core was recovered. It is not described here.</p> <p>Stiff grayish olive nanno ooze with dark gray layers, streaks, and slight mottles. Dark areas rich in pyrite, clay, and plant debris. Sections 2, 3, 4, and 5 moderately deformed. Sections 1 and 6 intensely deformed.</p> <p>CLAY AND RAD. RICH NANNO OOZE Shear slides 2-75, 3-75, 4-75, 5-70, 6-75 Texture Clay 68% Silt 31% Sand 1% Rads Clay Carb. frags. Forams 3% Diatoms 1% Sponge spicules 1% Pyrite 1%</p>	
				2 1.0			67-75	<p>10Y4/2 N3 layers</p>	
				3			XR 26-28	<p>10Y4/2 N3 patches & streaks</p>	
				4			75	<p>10Y4/2 N3 streaks</p>	
				5			70-75	<p>10Y4/2 N3 streaks</p>	
				6			75	<p>10Y4/2 N3 streaks</p>	
				Core Catcher				<p>10Y4/2 N3 streaks</p>	

Site 262 Hole Core 13 Cored Interval: 109.5-119 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	HANNOS	RADOLARIA					
PLISTOCENE (upper part) - HOLOCENE	(F) Globorotalia truncatulinoides (N) Emiliana huxleyi	AG AM			1 0.5		80	<p>Because of expansion due to gas an additional 55 cm of core was recovered. It is not described here.</p> <p>Stiff grayish olive nanno ooze with dark gray layers and streaks. Dark areas rich in pyrite, clay, and plant debris. All sections moderately deformed.</p> <p>CLAY AND RAD. RICH NANNO OOZE Shear slides 1-80, 2-75, 3-100, 4-90, 5-100, 6-80 Texture Clay 63% Silt 36% Sand 1% Rads Clay Carb. frags. Diatoms 3% Forams 3%</p>	
				2 1.0			67-75	<p>10Y4/2 N3 layers</p>	
				3			XR 26-28	<p>10Y4/2 N3 layers</p>	
				4			100	<p>10Y4/2 N3 layers</p>	
				5			90	<p>10Y4/2 N3 layers</p>	
				6			67-75	<p>10Y4/2 N3 layers</p>	
				Core Catcher				<p>10Y4/2 N3 layers</p>	

Site 262	Hole	Core 16				Cored Interval: 138-147.5 m	LITHOLOGIC DESCRIPTION
		FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY		
AGE							
ZONE							
FORAMS							
RADIOLARIA							
OTHERS							
SECTION							
METERS							
LITHOLOGY							
DEFORMATION							
LITHO. SAMPLE							
LITHOLOGIC DESCRIPTION							

Site 262	Hole	Core 15				Cored Interval: 128.5-138 m	LITHOLOGIC DESCRIPTION
		FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY		
AGE							
ZONE							
FORAMS							
RADIOLARIA							
OTHERS							
SECTION							
METERS							
LITHOLOGY							
DEFORMATION							
LITHO. SAMPLE							
LITHOLOGIC DESCRIPTION							

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Site 262 Hole Core 18 Cored Interval: 157-166.5 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
PLEISTOCENE (upper part) - HOLOCENE	(F) Globorotalia truncatulinoides (H) Emiliana huxleyi				1 0.5 1.0		75 104/2 N3 streaks	Stiff, grayish olive nanno ooze with dark gray layers, streaks, and patches. Dark areas rich in pyrite, plant debris, and clay. Grayish white fossil shells to 5 mm scattered throughout. Moderately deformed in Sections 1, 5, and 6. Intensely deformed in Sections 2, 3, and 4. RAD. RICH NANNO OOZE 2-75, 3-60, 5-75, 6-45 Smear slides 1-75 Texture 72% Nannos Clay 27% Rads Silt 1% Clay Sand Carb. frags. Diatoms 2% Forams 2%	
				2			74 104/2 N3 streaks	Other components are: pyrite, dolomite rhombs, quartz, silicoflagellates, sponge spicules, plant debris, and heavy minerals. Coarse Fraction (>63µ): forams, rads, diatoms, pyrite, silicoflagellates, and plant debris. BULK X-RAY (160.3 m) Calcite 42% Quartz 36% Montmorillonite 10% Mica 10% Aragonite 8% Kaolinite 3% Mg-calcite 3% Plagioclase 3% Chlorite 1%	
				3			90		
				4			104/2 N3 streaks		
				5			74 104/2 N3 streaks		
				6			104/2 N3 streaks		
				Core Catcher			104/2		

Site 262 Hole Core 17 Cored Interval: 147.5-157 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
PLEISTOCENE (upper part) - HOLOCENE	(F) Globorotalia truncatulinoides (N) Emiliana huxleyi				1 0.5 1.0		90 104/2 N3 streaks	Stiff, grayish olive nanno ooze with dark gray layers, streaks, and lenses. Dark areas rich in pyrite, plant debris, and clay. Intense deformation in Section 1 and Section 2 to depth of 73 cm; remainder of sections are moderately deformed. CLAY RICH NANNO OOZE Smear slides 1-90, 2-100, 3-90, 4-90, 5-60, 6-60 Texture 69% Nannos Clay 29% Clay Sand 2% Carb. frags. Forams 4% Pyrite 1% Diatoms 1% Sponge spicules 1%	
				2			67 70	Other components are: quartz, heavy minerals, volcanic glass, dolomite rhombs, plant debris, and ostracods. Coarse Fraction (>63µ): forams, rads, sponge spicules, plant debris, echinoderm fragments, diatoms, silicoflagellates, and pyrite. BULK X-RAY (150.8 m) Calcite 44% Quartz 24% Mica 11% Montmorillonite 5% Plagioclase 3% Kaolinite 3% Mg-calcite 2% Chlorite 1% Pyrite 1%	
				3			90		
				4			104/2 N3 streaks		
				5			60 104/2 N3 streaks 62 74		
				6			75 104/2 106/2 streaks		
				Core Catcher			104/2		

Site 262 Hole Core 24 Cored Interval: 214-223.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA				
PLEISTOCENE (upper part) - HOLOCENE	(f) Globobulimina truncatulinoides (H) Gephyrocapsa	AG / AM	AM	AM	0.5 1.0		<p>Stiff, grayish olive and pale olive nanno ooze with few dark gray streaks and layers. Slight deformation throughout.</p> <p>CLAY MANNO_OOZE Smear slides 3-75, 4-75, 5-75, 6-75 Composition Texture 72% Mannos 23% 67% Silt 25% Clay 23% Sand 3% Carb. Frags. 2% Forams 1% Diatoms 1% Rads 1% Pyrite 1%</p> <p>Other components are: sponge spicules, dolomite rhombs, chlorite, quartz, heavy minerals, silicoflagellates, and plant debris.</p> <p>Coarse Fraction (>63µ): forams, diatoms, rads, sponge spicules, pyrite, plant debris, and echinoderm fragments.</p> <p>BULK X-RAY (217.3 m) 55% Calcite 16% Quartz 9% Mica 6% Aragonite 6% Amphibole 3% Plagioclase 2% Kaolinite 2% Chlorite</p>	
					10/4/2	-75		
					10/4/2	-62 -75		
					10/4/2	-75		
					10/4/2	-75		
					10/4/2	-75		
					10/4/2 with 10/6/2 bands	-75		
				Core Catcher	10/4/2			

Site 262 Hole Core 23 Cored Interval: 204.5-214 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA				
PLEISTOCENE (upper part) - HOLOCENE	(f) Globobulimina truncatulinoides (N) Gephyrocapsa	AG	AG	CM	0.5 1.0		<p>Stiff, grayish and green nanno ooze with few dark gray streaks and layers. Slight deformation throughout.</p> <p>CLAY MANNO_OOZE Smear slides 1-75, 2-75, 3-75, 4-75, 5-75, 6-75 Composition Texture 74% Mannos 60% Silt 25% Clay 27% Sand 1% Carb. Frags. 5% Forams 3% Rads 3%</p> <p>Other constituents are pyrite, diatoms, silicoflagellates, volcanic glass, heavy minerals, quartz, chlorite, dolomite rhombs, plant debris.</p> <p>Coarse Fraction (>63µ): forams, rads, sponge spicules, silicoflagellates, molluscs, plant debris, pyrite, and mica.</p> <p>BULK X-RAY (207.8 m) 58% Calcite 13% Quartz 1% Mica 1% Amphorillonite 13% Aragonite 2% Kaolinite 2% Plagioclase 1% Chlorite</p>	
					10/4/2	-75		
					10/4/2	-62 -75		
					10/4/2	-75		
					10/4/2	-75		
					10/4/2	-75		
					10/4/2	-75		
				Core Catcher	10/4/2			

Site 262		Hole		Core 26		Cored Interval: 233-242.5 m	
AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	OTHERS			
PLEISTOCENE (lower part)	(F) Globorotalia truncatulinoides (N) Pseudonannella lacunosa				1 0.5 1.0	-75	Stiff, grayish olive nanno ooze with shell fragments scattered throughout and a few debris bands. Intense diatom deformation in Sections 2 and 3. Moderate deformation in Sections 4, 5, and 6. CLAY RICH NANNO Ooze Smear slides 1-75, 2-75, 3-75, 4-75, 5-75, 6-75 Texture Clay 71% Silt 28% Sand 3% Composition Nannos 72% Clay 28% Carb. frag. 7% Forams 4% Rads 3% Sponge spicules 2% Other components are diatoms, plant debris, pyrite, quartz, heavy minerals, dolomite rhombs, and silicoflagellates. Coarse Fraction (>63 μ): forams, carbonate fragments, plant debris, and rads. BULK X-RAY (236.3 m) Calcite 58% Quartz 13% Mica 8% Montmorillonite 8% Aragonite 8% Plagioclase 2% Kaolinite 2% Chlorite 1%
					2	-62 74 -75	Stiff, grayish olive nanno ooze with shell fragments scattered throughout and a few debris bands. Intense diatom deformation in Sections 2 and 3. Moderate deformation in Sections 4, 5, and 6. CLAY RICH NANNO Ooze Smear slides 1-75, 2-75, 3-75, 4-75, 5-75, 6-75 Texture Clay 71% Silt 28% Sand 3% Composition Nannos 72% Clay 28% Carb. frag. 7% Forams 4% Rads 3% Sponge spicules 2% Other components are diatoms, plant debris, pyrite, quartz, heavy minerals, dolomite rhombs, and silicoflagellates. Coarse Fraction (>63 μ): forams, carbonate fragments, plant debris, and rads. BULK X-RAY (236.3 m) Calcite 58% Quartz 13% Mica 8% Montmorillonite 8% Aragonite 8% Plagioclase 2% Kaolinite 2% Chlorite 1%
					3	-XR 26-28 -75	Stiff, grayish olive nanno ooze with shell fragments scattered throughout and a few debris bands. Intense diatom deformation in Sections 2 and 3. Moderate deformation in Sections 4, 5, and 6. CLAY RICH NANNO Ooze Smear slides 1-75, 2-75, 3-75, 4-75, 5-75, 6-75 Texture Clay 71% Silt 28% Sand 3% Composition Nannos 72% Clay 28% Carb. frag. 7% Forams 4% Rads 3% Sponge spicules 2% Other components are diatoms, plant debris, pyrite, quartz, heavy minerals, dolomite rhombs, and silicoflagellates. Coarse Fraction (>63 μ): forams, carbonate fragments, plant debris, and rads. BULK X-RAY (236.3 m) Calcite 58% Quartz 13% Mica 8% Montmorillonite 8% Aragonite 8% Plagioclase 2% Kaolinite 2% Chlorite 1%
					4	-75	Stiff, grayish olive nanno ooze with shell fragments scattered throughout and a few debris bands. Intense diatom deformation in Sections 2 and 3. Moderate deformation in Sections 4, 5, and 6. CLAY RICH NANNO Ooze Smear slides 1-75, 2-75, 3-75, 4-75, 5-75, 6-75 Texture Clay 71% Silt 28% Sand 3% Composition Nannos 72% Clay 28% Carb. frag. 7% Forams 4% Rads 3% Sponge spicules 2% Other components are diatoms, plant debris, pyrite, quartz, heavy minerals, dolomite rhombs, and silicoflagellates. Coarse Fraction (>63 μ): forams, carbonate fragments, plant debris, and rads. BULK X-RAY (236.3 m) Calcite 58% Quartz 13% Mica 8% Montmorillonite 8% Aragonite 8% Plagioclase 2% Kaolinite 2% Chlorite 1%
					5	-62 74 -75	Stiff, grayish olive nanno ooze with shell fragments scattered throughout and a few debris bands. Intense diatom deformation in Sections 2 and 3. Moderate deformation in Sections 4, 5, and 6. CLAY RICH NANNO Ooze Smear slides 1-75, 2-75, 3-75, 4-75, 5-75, 6-75 Texture Clay 71% Silt 28% Sand 3% Composition Nannos 72% Clay 28% Carb. frag. 7% Forams 4% Rads 3% Sponge spicules 2% Other components are diatoms, plant debris, pyrite, quartz, heavy minerals, dolomite rhombs, and silicoflagellates. Coarse Fraction (>63 μ): forams, carbonate fragments, plant debris, and rads. BULK X-RAY (236.3 m) Calcite 58% Quartz 13% Mica 8% Montmorillonite 8% Aragonite 8% Plagioclase 2% Kaolinite 2% Chlorite 1%
					6	-75	Stiff, grayish olive nanno ooze with shell fragments scattered throughout and a few debris bands. Intense diatom deformation in Sections 2 and 3. Moderate deformation in Sections 4, 5, and 6. CLAY RICH NANNO Ooze Smear slides 1-75, 2-75, 3-75, 4-75, 5-75, 6-75 Texture Clay 71% Silt 28% Sand 3% Composition Nannos 72% Clay 28% Carb. frag. 7% Forams 4% Rads 3% Sponge spicules 2% Other components are diatoms, plant debris, pyrite, quartz, heavy minerals, dolomite rhombs, and silicoflagellates. Coarse Fraction (>63 μ): forams, carbonate fragments, plant debris, and rads. BULK X-RAY (236.3 m) Calcite 58% Quartz 13% Mica 8% Montmorillonite 8% Aragonite 8% Plagioclase 2% Kaolinite 2% Chlorite 1%
		AG AM CG	Core Catcher				

Site 262		Hole		Core 25		Cored Interval: 223.5-233 m	
AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	OTHERS			
PLEISTOCENE (lower part)	(F) Globorotalia truncatulinoides (N) Pseudonannella lacunosa				1 0.3 1.0	-75	Stiff grayish olive and olive gray nanno ooze with few dark bands and streaks. Shell fragments scattered throughout. Slight deformation in Sections 1 and 2; intense deformation in Sections 3, 4, and 5. CLAY RICH NANNO Ooze Smear slides 1-75, 2-75, 3-75, 4-75, 5-75 Texture Clay 72% Silt 26% Sand 2% Composition Nannos 68% Clay 18% Carb. frags. 4% Forams 4% Diatoms 3% Sponge spicules 1% Rads 1% Pyrite 1% Other components are plant debris, dolomite rhombs, and silicoflagellates. Coarse Fraction (>63 μ): forams, diatoms, rads, sponge spicules, carbonate fragments, fish remains, and silicoflagellates. BULK X-RAY (226.8 m) Calcite 54% Quartz 14% Mica 10% Montmorillonite 8% Aragonite 7% Kaolinite 3% Plagioclase 2% Chlorite 1%
					2	-62 74 -75	Stiff grayish olive and olive gray nanno ooze with few dark bands and streaks. Shell fragments scattered throughout. Slight deformation in Sections 1 and 2; intense deformation in Sections 3, 4, and 5. CLAY RICH NANNO Ooze Smear slides 1-75, 2-75, 3-75, 4-75, 5-75 Texture Clay 72% Silt 26% Sand 2% Composition Nannos 68% Clay 18% Carb. frags. 4% Forams 4% Diatoms 3% Sponge spicules 1% Rads 1% Pyrite 1% Other components are plant debris, dolomite rhombs, and silicoflagellates. Coarse Fraction (>63 μ): forams, diatoms, rads, sponge spicules, carbonate fragments, fish remains, and silicoflagellates. BULK X-RAY (226.8 m) Calcite 54% Quartz 14% Mica 10% Montmorillonite 8% Aragonite 7% Kaolinite 3% Plagioclase 2% Chlorite 1%
					3	-XR 26-28 -75	Stiff grayish olive and olive gray nanno ooze with few dark bands and streaks. Shell fragments scattered throughout. Slight deformation in Sections 1 and 2; intense deformation in Sections 3, 4, and 5. CLAY RICH NANNO Ooze Smear slides 1-75, 2-75, 3-75, 4-75, 5-75 Texture Clay 72% Silt 26% Sand 2% Composition Nannos 68% Clay 18% Carb. frags. 4% Forams 4% Diatoms 3% Sponge spicules 1% Rads 1% Pyrite 1% Other components are plant debris, dolomite rhombs, and silicoflagellates. Coarse Fraction (>63 μ): forams, diatoms, rads, sponge spicules, carbonate fragments, fish remains, and silicoflagellates. BULK X-RAY (226.8 m) Calcite 54% Quartz 14% Mica 10% Montmorillonite 8% Aragonite 7% Kaolinite 3% Plagioclase 2% Chlorite 1%
					4	-75	Stiff grayish olive and olive gray nanno ooze with few dark bands and streaks. Shell fragments scattered throughout. Slight deformation in Sections 1 and 2; intense deformation in Sections 3, 4, and 5. CLAY RICH NANNO Ooze Smear slides 1-75, 2-75, 3-75, 4-75, 5-75 Texture Clay 72% Silt 26% Sand 2% Composition Nannos 68% Clay 18% Carb. frags. 4% Forams 4% Diatoms 3% Sponge spicules 1% Rads 1% Pyrite 1% Other components are plant debris, dolomite rhombs, and silicoflagellates. Coarse Fraction (>63 μ): forams, diatoms, rads, sponge spicules, carbonate fragments, fish remains, and silicoflagellates. BULK X-RAY (226.8 m) Calcite 54% Quartz 14% Mica 10% Montmorillonite 8% Aragonite 7% Kaolinite 3% Plagioclase 2% Chlorite 1%
					5	-62 74 -75	Stiff grayish olive and olive gray nanno ooze with few dark bands and streaks. Shell fragments scattered throughout. Slight deformation in Sections 1 and 2; intense deformation in Sections 3, 4, and 5. CLAY RICH NANNO Ooze Smear slides 1-75, 2-75, 3-75, 4-75, 5-75 Texture Clay 72% Silt 26% Sand 2% Composition Nannos 68% Clay 18% Carb. frags. 4% Forams 4% Diatoms 3% Sponge spicules 1% Rads 1% Pyrite 1% Other components are plant debris, dolomite rhombs, and silicoflagellates. Coarse Fraction (>63 μ): forams, diatoms, rads, sponge spicules, carbonate fragments, fish remains, and silicoflagellates. BULK X-RAY (226.8 m) Calcite 54% Quartz 14% Mica 10% Montmorillonite 8% Aragonite 7% Kaolinite 3% Plagioclase 2% Chlorite 1%
		AG AM	Core Catcher				

Site 262 Hole Core 28 Cored Interval: 252-261.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA						
PLEISTOCENE (lower part)	(F) Globorotalia truncatulinoides (N) Pseudonella lacunosa	AG	AG	AG	1	0.5	VOID	-75	513/2	Stiff, grayish olive, and olive gray nanno ooze with shell fragments, very few dark gray layers. Slight deformation. FORAM AND CLAY RICH NANNO Ooze Smear slides 1-75, 2-75, 2-130, 2-140, 3-75 Composition Texture Clay 60% Nannos 55% Silt 31% Clay 19% Sand 9% Forams frag. 1% Pyrite 2% Rads 2% Sponge spicules 1%
					2	1.0		-62 74 -75	104/2	Other components are plant debris, dolomite rhombs, and diatoms. Coarse Fraction (>63µ): forams, plant debris, sponge spicules, pyrite, diatoms, and silicoflagellates. BULK X-RAY (255.4 m) Calcite 62% Quartz 13% Aragonite 10% Mica 8% Kiaogloase 3% Chlorite 2% Cinnoptilolite 1%
					3			130 140 -XR -75	38-40 104/2	
				Core Catcher					104/2	

Site 262 Hole Core 27 Cored Interval: 242.5-252 m

AGE	ZONE	FOSSIL CHARACTER			SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA						
PLEISTOCENE (lower part)	(F) Globorotalia truncatulinoides (N) Pseudonella lacunosa	AG	AG	FG	1	0.5		-75	104/2	Stiff, grayish olive nanno ooze with shell fragments scattered throughout and a few dark gray bands. Slight deformation. CLAY RICH NANNO Ooze Smear slides 5-75, 6-75, 2-107, 3-75, 4-75 Composition Texture Clay 73% Nannos 69% Silt 25% Clay 14% Sand 2% Forams frag. 5% Forams 5% Diatoms 2% Rads 1% Sponge spicules 1%
					2	1.0		-62 74 -75	104/2	Other components are plant debris, pyrite, silicoflagellates, diatoms, heavy minerals, dolomite rhombs. Coarse Fraction (>63µ): forams, carbonate fragments, pyrite, rads, sponge spicules, plant debris, mica, and silicoflagellates. BULK X-RAY (245.8 m) Calcite 51% Quartz 12% Mica 11% Montmorillonite 11% Aragonite 7% Kaolinite 3% Plagioclase 3% Chlorite 1% Cinnoptilolite 1%
					3			107 -XR 26-28 -75	104/2	
					4				104/2	
					5			-62 74 -75	104/2	
					6			-75	104/2	
				Core Catcher					104/2	

Site 262 Hole Core 32 Cored Interval: 290-299.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
	PLEISTOCENE (lower part)							Stiff, grayish olive and pale olive nanno ooze with slight mottling. Moderately deformed. Calcareous shells up to 4 mm throughout.	
	(F) Globorotalia truncatulinoides	AG			1		10Y4/2	CLAY AND MICARB RICH NANNO OOZE Smear slides 2-75, 3-75, 4-75, 5-75, 6-75, 7-75, 8-75, 9-75, 10-75, 11-75, 12-75, 13-75, 14-75, 15-75, 16-75, 17-75, 18-75, 19-75, 20-75, 21-75, 22-75, 23-75, 24-75, 25-75, 26-75, 27-75, 28-75, 29-75, 30-75, 31-75, 32-75, 33-75, 34-75, 35-75, 36-75, 37-75, 38-75, 39-75, 40-75, 41-75, 42-75, 43-75, 44-75, 45-75, 46-75, 47-75, 48-75, 49-75, 50-75, 51-75, 52-75, 53-75, 54-75, 55-75, 56-75, 57-75, 58-75, 59-75, 60-75, 61-75, 62-75, 63-75, 64-75, 65-75, 66-75, 67-75, 68-75, 69-75, 70-75, 71-75, 72-75, 73-75, 74-75, 75-75	
	(N) Pseudonannula lacunosa	AG			2		6Z 74 10Y4/2	Texture Clay 59% Silt 35% Sand 6% Carb. Frag. 71% Nannos 12% Clay 10% Forams 4% Pyrite 1%	
					3		10Y4/2	Other components are quartz, heavy minerals, dolomite rhombs, reeds, sponge spicules, silicoflagellates, and plant debris.	
					4		10Y5/2	Coarse Fraction (>63µ): forams, pyrite, sponge spicules, echinoderm fragments, molluscan debris, and plant debris.	
					5		6Z 74 10Y4/2	BULK X-RAY (293.3 m) Calcite 52% Aragonite 29% Quartz 6% Mica 2% Kaolinite 2% Montmorillonite 1% Chlorite 1% Ca-dolomite 1%	
					6		10Y4/2		
					Core Catcher		50Y6/1		

Site 262 Hole Core 31 Cored Interval: 280.5-290 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
	PLEISTOCENE (lower part)							Grayish olive nanno ooze with greenish gray mottles. Soft in Sections 1, 2, and 3; stiff in Sections 4, 5, 6. Drilling breccia in Sections 1, 2, and 3; intensely deformed in Sections 4, 5, and 6. Calcareous shells throughout.	
	(F) Globorotalia truncatulinoides	AG			1		50Y6/1	CLAY AND MICARB RICH NANNO OOZE Smear slides 2-75, 3-75, 4-75, 5-75, 6-75	
	(N) Pseudonannula lacunosa	AG			2		6Z 74 50Y6/1	Texture Clay 62% Silt 30% Sand 8% Carb. frag. 62% Clay 15% Sand 14% Forams 8% Pyrite 1%	
					3		10Y4/2	Other components are: dolomite rhombs, sponge spicules, silicoflagellates, reeds, and plant debris.	
					4		10Y4/2	Coarse Fraction (>63µ): forams, pyrite, fish remains, plant debris, and ostracods.	
					5		6Z 74 10Y4/2	BULK X-RAY (283.6 m) Calcite 57% Aragonite 23% Quartz 6% Mica 5% Kaolinite 3% Chlorite 1%	
					6		10Y4/2		
					Core Catcher		50Y3/2 10Y5/2		

Site 262 Hole Core 40 Cored Interval: 366-375.5 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
UPPER PLIOCENE (Lower part) (Based on Forams)	(F) Globorotalia aff. tosaensis	AG	CM	NONE	1		-75	Semi-lithified, grayish olive and dusky yellow green foram ooze. Layered and slightly mottled. Calcareous shell fragments up to 3 mm scattered throughout. Slightly deformed.	
	(N) Discoaster browneri?				1.0	VOID		CLAY AND NANNO RICH FORAM OOZE Shear slides 1-75, 2-75, 4-75, 5-75 Composition Texture Sec. 2, 52 cm Sand 58% Silt 28% Clay 14% Nannos 7% Silt 32% Clay 23% Carb. frag. 7% Sec. 5, 74 cm Silt 44% Pyrite 2% Clay 34% Dolomite rhombs 1% Sand 22% Sponge spicules 1%	
					2		GZ 64 -75 10/4/2	Other components are dolomite rhombs, sponge spicules, heavy minerals, and glauconite. Coarse Fraction (>63µ): forams, dolomite rhombs, quartz, carbonate fragments, sponge spicules, plant debris, ostracods.	
					3		XR 5-7 -75	BULK X-RAY (369.0 m) Calcite 48% Aragonite 19% Quartz 12% Mica 7% Dolomite 9% Kaolinite 3% K-feldspar 3% Chlorite 1% Pyrite 1% Kaolinite Tr.	
					4		-75 10/4/2		
					5		-75 10/6/2		
					Core Catcher		50/5/2		

Site 262 Hole Core 39 Cored Interval: 356.5-366 m

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
UPPER PLIOCENE (Lower part) (Based on Forams)	(F) Globorotalia aff. tosaensis	AG	CM	NONE	1		-75 56/5/2	Stiff to semi-lithified grayish olive and grayish green nanno foram ooze. Stiff to semi-lithified. Slight deformation.	
	(N) Discoaster browneri?				1.0	VOID		NANNO FORAM OOZE Shear slides 5-75, 2-75, 3-75, 4-75, 5-75 Composition Texture Sec. 2, 52 cm Sand 58% Silt 28% Clay 14% Nannos 7% Silt 32% Clay 23% Carb. frag. 7% Sec. 5, 74 cm Silt 44% Pyrite 2% Clay 34% Dolomite rhombs 1% Sand 22% Sponge spicules 1%	
					2		GZ 52 -75 10/5/2	Coarse Fraction (>63µ): forams, carb. frag., quartz, heavy minerals, pyrite, iron oxide, molluscan debris.	
					3		XR 58-60 -75 10/5/2	BULK X-RAY (360.1 m) Calcite 65% Aragonite 16% Ca-dolomite 10% Quartz 7% Mica 2%	
					4		-75 10/5/2		
					5		GZ 74 -75 10/5/2		
					6		10/5/2		
					Core Catcher		10/4/2 56/4/2		

Site 262 Hole Core 42 Cored Interval: 385-394.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	RADIALARIA	OTHERS						
	UPPER PLIOCENE (lower part) (Based on Forams)	(F) Globorotalia aff. tosaensis			1	0.5			1015/2	Semi-lithified pale olive micarb foram ooze with grayish olive mottles. Shell fragments scattered throughout. Slight deformation.
					2	1.0			1015/2 1014/2 mottles	MICARB FORAM OOZE Shear slides 2-75, 3-75, 4-75, 5-75 Composition Texture Silt 42% Clay 27% Sand 27% Forams 45% Nannos 29% Carb. frag. 17% Dolomite rhombs 1%
					3				1015/2 1014/2 mottles	Other components are heavy minerals, pyrite, sponge spicules.
					4				1015/2 1014/2 mottles	Coarse Fraction (>63µ): forams, carbonate fragments, quartz, gypsum, echinoid fragments.
					5				1015/2 XR 63 -75	BULK X-RAY (391.6 m) Calcite 55% Aragonite 25% Quartz 12% Ca-dolomite 5% Mica 2% Kaolinite 1%
					Core Catcher				5015/2	

Site 262 Hole Core 41 Cored Interval: 375.5-385 m

AGE	ZONE	FOSSIL CHARACTER			SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	RADIALARIA	OTHERS						
	UPPER PLIOCENE (lower part) (Based on Forams)	(F) Globorotalia aff. tosaensis			1	0.5	VOID			Semi-lithified pale olive and grayish olive foram ooze. Moderate mottling. Slight deformation. Shell fragments up to 3 mm scattered throughout.
					2	1.0			1016/2	MICARB AND NANNO RICH FORAM OOZE Shear slides 2-75, 3-75, 4-75, 5-75, 6-75 Composition Texture Silt 51% Clay 21% Sand 28% Forams 49% Nannos 22% Carb. frag. 19% Dolomite rhombs 7% Pyrite 1%
					3				40-51 1016/2 -75 1014/2 mottles	Other components are heavy minerals and glauconite.
					4				1015/2	Coarse Fraction (>63µ): forams, carbonate fragments, quartz, sponge spicules, plant debris, ostracods, and echinoid fragments.
					5				63-59 1015/2	BULK X-RAY (379.0 m) Calcite 75% Aragonite 11% Ca-dolomite 10% Quartz 4%
					6				1015/2	
					Core Catcher				5015/2	

Site 262 Hole Core 47 Cored Interval: 432.5-442 m

AGE	PLIOCENE	ZONE (F) Layers with Cellanthus craticulatus, Operculina, etc.	FOSSIL CHARACTER	FORAMS	AP	SECTION METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
				NANNOS	NONE				
			RADIOLARIA	NONE					
			OTHERS						

Lithified, yellow gray shell calcarenite
DOLOMITIC SHELL-CALCARENITE
 Coarse Fraction (>63 μ): carbonate fragments, dolomite rhombs, forams, quartz.

Site 262 Hole Core 46 Cored Interval: 423-432.4 m

AGE	PLIOCENE	ZONE (F) Layers with Cellanthus craticulatus, Operculina, etc.	FOSSIL CHARACTER	FORAMS	AP	SECTION METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
				NANNOS	NONE				
			RADIOLARIA	NONE					
			OTHERS						

Composition
 Calcite Fragments 82%
 Forams 10%
 Dolomite rhombs 5%
 Clay 3%
 Quartz Tr.

DEEP SEA DRILLING PROJECT

LEG 27 SITE 263

SITE SUMMARY SHEET

POSITION: Latitude: 23°19.43'S Longitude: 110°57.81'E

Water depth (from sea level): 5048 corrected meters (Echo sounding)

Bottom felt at: 5065 meters (drill pipe) Penetration: 746 meters

Number of Holes: 1 Number of Cores: 29

Total length of cored section: 271 meters Total core recovered: 163.5 m

Percentage of core recovery: 60.33

OLDEST SEDIMENT CORED:

Depth below sea floor: 746 meters Nature: Quartz-bearing clay

Age: Albian Measured Velocity: 2.4 km/sec

BASEMENT: Not reached

PRINCIPAL RESULTS:

Site 263 is situated near the eastern edge of the Cuvier Abyssal Plain. Beneath 100 m of Quaternary and Upper Pliocene turbiditic foram nanno ooze, which shows in the seismic profile as a well-stratified layer, is an acoustically transparent layer of Cretaceous sediments. These sediments comprise poorly fossiliferous clayey nanno ooze and black claystone that overlie Albian black glauconitic quartz-bearing clay. A mechanical failure terminated drilling in these sediments at a total depth of 746 m, a short distance above acoustic basement.

Site 263 Hole Core 4 Cored Interval: 109.5-119.0 m

AGE	ZONE	FOSSIL CHARACTER	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION	
CRETACEOUS		FORAMS NANNOS RADIOLARIA OTHERS	SECTION 1	0.5			-75	modules dolomite 5Y7/2 N3
			SECTION 2	1.0			113	MANNO CLAY Smear slides 1-75, 2-65, 3-75, 4-55, CC Texture Clay 81% Silt 19% Composition Clay 55% Jannos 40% Opauques 2% Feldspar 1% Chlorite 1% Quartz, heavy minerals, dolomite nodules, zeolite and dolomite rhombs Tr.
			SECTION 3				-XR 26-28	QUARTZ RICH CLAY Smear slides 5-75, 6-75 Texture Clay 81% Silt 19% Composition Clay 78% Jannos 12% Opauques 2% Feldspar 2% Chlorite 2% Zeolite, dolomite rhombs, micarb, and chlorite Tr.
			SECTION 4				-87	BULK X-RAY (112.8 m) Montmorillonite 46% Calcite 19% Quartz 12% K-feldspar 12% Chlorite 5% Pyrite 1%
			SECTION 5				-75 -6Z 74	modules dolomite 5Y7/2 dolomite 5Y7/2 5Y4/1 & 5Y2/1
			SECTION 6				-75 -6Z 74	modules dolomite 5Y7/2 dolomite 5Y7/2 5Y4/1 & 5Y2/1
			Core Catcher			-CC	5Y4/1 & 5Y2/1	

Site 263 Hole Core 3 Cored Interval: 90.5-100.0 m

AGE	ZONE	FOSSIL CHARACTER	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION	
CRETACEOUS		FORAMS NANNOS RADIOLARIA OTHERS	SECTION 1	0.5			-75	Slightly deformed, light gray (N7) sandy ooze. Soft. No internal bedding and no apparent grading. Olive black (5Y2/1) ooze in core catcher.
			SECTION 2	1.0			N6 clay ball	DETRIITAL FORAM MANNO OOZE Smear slides 1-75, 2-75, 3-75, 4-75, 5-75, 6-75 Texture Sand 54% Silt 24% Clay 22% Composition Nannos 45% Forams 35% Clay 10% Mcarb 8% Quartz 1% Feldspar, glauconite, pyrite, dolomite rhombs Tr.
			SECTION 3				-XR 26-28	Coarse fraction chiefly forams with traces of glauconite, pyrite, quartz and muscovite. Forams often broken and graded.
			SECTION 4				-75	CLAYEY MANNO OOZE Smear slide CC Composition Nannos 48% Clay 45% Mcarb 2% Quartz 2% Glauconite Tr.
			SECTION 5				-75	BULK X-RAY (93.8 m) Calcite 95% Quartz 4% Mica 1%
			SECTION 6				-75	
			Core Catcher			-CC	5Y2/1	

Hot older than UPPER PLIOCENE (F) Globobulimina tosaensis

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION	
		FORAMS	NANNOS	RADIOLARIA						
CRETACEOUS	(F) Lower? Albian (Pm) D. Spectosits (Neocomian - Aptian)								<p>Strongly to weakly disturbed stiff clay. Chiefly olive black (5Y2/1) and dark greenish gray (5G4/1) with lenses and laminae of olive black. Many dolomite nodules, shales, streaks and wisps. One barite nodule.</p> <p>QUARTZ RICH NAMMO BEARING CLAY Smear slides 1-90, 3-70, 4-75, 5-65, 6-70, CC Composition Clay 83% Silt 17% Quartz (microcrystalline) 20% Feldspar 4% Nannos 5% Barite 1% Minerals: glauconite, pyrite, zeolite, chlorite, rhombs, chlorites and fish fragments Tr.</p>	
		RM			0.5	VOID	-90	5Y7/2 nodules		
		RM			1.0					5Y7/2 nodules
		RM			2					5Y7/2 nodules
		RM			3					5Y7/2 nodules
		RM			4					5Y7/2 wisps
		RM			5					5Y7/2 wisps & nodules
		RM			6					5Y7/2 wisps
		RM			7					5Y7/2 wisps
		RM			8					5Y7/2 wisps
			9				5Y7/2 spots & nodules			
			Core Catcher				5Y7/2 wisps			

AGE	ZONE	FOSSIL CHARACTER			METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
CRETACEOUS	(F) Lower? Albian (Pm) D. Spectosits (Neocomian - Aptian)	FM							<p>Strongly deformed, stiff nammo clay; chiefly dark greenish gray and olive black. Dolomite nodules.</p> <p>NAMMO CLAY</p>
		AP			0.5	VOID		5G4/1 & 5Y2/1	
		RVP			1.0			5G4/1 & 5Y2/1	
		Core Catcher							

Site 263 Hole Core 5 Cored Interval: 128.5-138.0 m

Site 263 Hole Core 6 Cored Interval: 147.5-157.0 m

Site 263 Hole Core 9 Cored Interval: 223.5-233.0 m

AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
CRETACEOUS	(F) Upper? Aptian (Pm) D. spectosus (Heocomtian - Aptian)	CM RM	FVP	Core Catcher	FVP	FVP	130	5612/1 sandy layer
							80	517/2 nodules
CRETACEOUS	(F) Upper? Aptian (Pm) D. spectosus (Heocomtian - Aptian)	Poor arenaceous	RVP	3	RVP	RVP	75	XR 30-32
							62	74
CRETACEOUS	(F) Upper? Aptian (Pm) D. spectosus (Heocomtian - Aptian)	RVP	1	1.0	RVP	RVP	120	QUARTZ RICH CLAY Smear slides 1-20, 2-75, 3-75, 4-80 Composition Clay 85% Quartz (microcrys.) 50% Silt 15% Opauques 4% Feldspar 4% Chlorite 3% Muscovite 1% Kaolinite, glauconite, pyrite, zeolite, nannos, and fish fragments. Tr.
							43	516/4 barite nodule

Site 263 Hole Core 7 Cored Interval: 176.0-185.5 m

AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
CRETACEOUS	(F) Upper? Aptian (Pm) D. spectosus (Heocomtian - Aptian)	PM FP	NONE	Core Catcher	NONE	NONE	32-34	XR 32-34
							517/2	517/2 streak
CRETACEOUS	(F) Upper? Aptian (Pm) D. spectosus (Heocomtian - Aptian)	Poor arenaceous	RVP	3	RVP	RVP	85	BULK X-RAY (179.3 m) 44% Montmorillonite 25% Quartz 15% Mica 9% K-feldspar 2% Calcite 2% Chlorite 2% Plagioclase 1% Pyrite
							40	517/2 specks
CRETACEOUS	(F) Upper? Aptian (Pm) D. spectosus (Heocomtian - Aptian)	RVP	1	1.0	VOID	VOID	67	QUARTZ RICH NANO BEARING CLAY Smear slides 2-38, 3-85 Composition Clay 84% Quartz (microcrys.) 63% Silt 16% Nannos 25% Opauques 4% Feldspar 4% Chlorite 1% Mica 1% Glauconite, pyrite, zeolite, chlorite, and fish remains. Tr.
							38	515/2 nodule
CRETACEOUS	(F) Upper? Aptian (Pm) D. spectosus (Heocomtian - Aptian)	RVP	1	0.5	VOID	VOID	515/2	Highly deformed stiff clay. Greenish black (562/1) to olive black (512/1) with lenses and laminae of grayish black (N2). Numerous dolomite nodules.
							515/2	nodule

Site 263 Hole Core 8 Cored Interval: 204.5-214.0 m

AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
CRETACEOUS	(F) Upper? Aptian (Pm) D. spectosus (Heocomtian - Aptian)	CM	NONE	Core Catcher	NONE	NONE	93	517/2 nodules
							562/1	562/1
CRETACEOUS	(F) Upper? Aptian (Pm) D. spectosus (Heocomtian - Aptian)	Poor arenaceous	RVP	1	VOID	VOID	515/2	Highly deformed, semi-lithified black (N1) to greenish black (562/1) clay.
							515/2	nodule
CRETACEOUS	(F) Upper? Aptian (Pm) D. spectosus (Heocomtian - Aptian)	RVP	1	0.5	VOID	VOID	515/2	Highly deformed, semi-lithified black (N1) to greenish black (562/1) clay.
							515/2	nodule

Site 263 Hole Core 14 Cored Interval: 318.5-328.0 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA				
CRETACEOUS	(F) Aptian or Older	PM	NONE	RVP	1	0.5-1.0	Semi-lithified, little disturbed claystone with abundant dolomite and barite nodules. Colors chiefly greenish black (5672/1) with streaks, lenses and laminae of olive black (512/1) and grayish black (M2). QUARTZ RICH CLAY Smear slides 1-75, 3-65, 4-85, 5-86, CC Composition Texture 91% Quartz (microcrysts.) 50% Clay 9% Feldspar 43% Silt 5% Opaques 2% Glauconite(?) 1% Pyrite 1% Zeolite 1% Quartz, muscovite, heavy, dolomite rhombs, micarb, and fish fragments Tr.	
					2		CLAY Smear slide 2-60 Composition Texture 84% Clay 57% Silt 16% Glauconite(?) 18% Quartz 12% Feldspar 9% Opaques 1% Pyrite 1% Zeolite 1% Heavy dolomite rhombs and fish fragments Tr.	
					3		Coarse fractions chiefly micarb, forams, quartz, glauconite and mica with lesser feldspar, heavies, pyrite, fish fragments and worm tubes(?). BULK X-RAY (322.5 m) Quartz 50% Montmorillonite 28% K-feldspar 15% Plagioclase 5% Chlorite 2% Pyrite 1%	
					4			
					5			
					Core Catcher			

Site 263 Hole Core 15 Cored Interval: 337.5-347.0 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA				
CRETACEOUS	(F) Aptian or Older	PM	NONE	RVP	1	0.5-1.0	Semi-lithified, little disturbed claystone. Chiefly greenish black (5672/1) with lenses and laminae of olive black (512/1). Some grayish green (1064/2) in lower part. Many dolomite nodules. Clay slightly silty in lower part. QUARTZ RICH CLAY Smear slides 1-20, 2-120, 3-6, 3-65, 3-125 Composition Quartz (microcrysts.) 40-60% Clay 20-40% Feldspar 1-10% Zeolite 1-2% Glauconite 1-5% Muscovite, heavies, and byrrite Tr.	
					2		BULK X-RAY (340.8 m) Quartz 56% Montmorillonite 21% Mica 12% K-feldspar 9% Plagioclase 2%	
					3			
					Core Catcher			

Site 263 Hole Core 16 Cored Interval: 356.5-366.0 m

AGE	ZONE	FOSSIL CHARACTER			SECTION METERS	LITHOLOGY	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA				
CRETACEOUS	(F) Aptian or Older	CM	NONE	RVP	1	0.5-1.0	Semi-lithified, somewhat brecciated greenish black (5672/1) to grayish green (1064/2) sandy claystone. SANDY QUARTZ RICH CLAY Smear slide 1-50 Texture Clay 61% Sand 28% Silt 11% Composition Quartz (microcrysts.) 40% Feldspar 37% Glauconite(?) 12% Pyrite 10% Zeolite, micarb, and fish fragments Tr.	
					2		Coarse fraction chiefly clay aggregates, quartz, forams, glauconite with lesser feldspar, muscovite, pyrite, spines and worm tubes(?).	
					Core Catcher			

Site 263 Hole Core 17 Cored Interval: 385.0-394.5 m

AGE	ZONE	FORMAS	FOSSIL CHARACTER		METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
			RADIOLARIA	OTHERS					
LOWER CRETACEOUS, ALBIAN	(F) Aptian or Older	AM	NONE	Ms	0.5		-75	N8	Semi-lithified, little disturbed, very uniform black (N8) claystone. QUARTZ-RICH CLAY Shear slides 1-75, 2-75, 3-75, 4-75, 5-75 Composition Clay 50% Quartz (microcryst.) 42% Feldspar 4% Opalines 2% Pyrite 2%
		FM	NONE	Pm	1.0		-75	N8	BULK X-RAY (388.1 m) Quartz 67% Montmorillonite 16% K-feldspar 4% Pyrite 2% Chlorite 2%
		FM	RVP	NONE	2		-XR 10-12		
		FM	RVP	NONE	3		-75	N8	
		FM	RVP	NONE	4		-75	N8	
		FM	RVP	NONE	5		-75	N8	
		FM	RVP	NONE	6		-75	N8	
		FM	RVP	NONE	Core Catcher				

Site 263 Hole Core 18 Cored Interval: 413.5-423.0 m

AGE	ZONE	FORMAS	FOSSIL CHARACTER		METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
			RADIOLARIA	OTHERS					
LOWER CRETACEOUS, ALBIAN	(H) Not older than middle Albian	CM	Calcareous and arenaceous benthonic species	NONE	0.5		-75	N8	Semi-lithified, undeformed claystone. Black (N8) in upper part grading down into olive black (5Y2/1). QUARTZ RICH CLAY Smear slides 1-75, 3-72, 5-75 Composition Clay 50% Quartz (microcryst.) 42% Feldspar 4% Pyrite 2% Opalines 2% Muscovite, heavy minerals, zeolite, and glauconite Tr.
		FM	Calcareous and arenaceous benthonic species	NONE	1.0	VOID	-XR 33-37		BULK X-RAY (416.8 m) Quartz 58% Montmorillonite 22% Mica 12% K-feldspar 3% Pyrite 2% Kaolinite 2% Chlorite 2%
		FM	Calcareous and arenaceous benthonic species	NONE	2		-72	N8	
		FM	Calcareous and arenaceous benthonic species	Pm	3				
		FM	Calcareous and arenaceous benthonic species	NONE	4		5Y2/1		
		FM	Calcareous and arenaceous benthonic species	Ms	5		-6Z 7		
		FM	Calcareous and arenaceous benthonic species	(Ammonite)	5Y2/1		-75	5Y2/1	
		FM	Calcareous and arenaceous benthonic species	RVP	Core Catcher				

Site 263 Hole Core 20 Cored Interval: 480-489.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA						
LOWER CRETACEOUS, ALBIAN	(F) Aptian or Older	Calcareous and arenaceous benthonic species	NONE	NONE	1	0.5	clay	-80	515/2 siderite	Semi-lithified, underformed clay. Brownish black (515/2) grading into greenish black (515/1) and olive black (515/1) with black (515/1) and greenish black (515/1) claystone. Pyrite and siderite nodules.
			NONE	NONE	2	1.0		-75	515/2/1	QUARTZ RICH CLAY Smear slides 1-80, 2-75, 3-75, 4-75, 5-75, 6-75, CC Composition Clay 51% Quartz (microcrys.) 40% Feldspar 3% Opaque 3% Pyrite 2% Nannos 1% Muscovite, heavies, glauconite, dolomite, rhombs, zeolite, mica, and fish fragments Tr.
			NONE	NONE	3			-75	515/2/1 to 515/2/1, 80-85	Coarse fractions chiefly clay aggregates, muscovite, forams, and quartz. BULK X-RAY (483.8 m) Quartz 47% Mica 22% Kaolinite 13% Montmorillonite 9% K-feldspar 6% Chlorite 2% Pyrite 1%
			NONE	NONE	4			-75	515/2/1 to 515/2/1	
			NONE	NONE	5			-75	515/2/1 to 515/2/1	
			NONE	NONE	6			-75	515/2/1 to 515/2/1	
			NONE	NONE	Core Catcher			-CC	515/2/1 to 515/2/1	

Site 263 Hole Core 19 Cored Interval: 451.5-461.0 m

AGE	ZONE	FOSSIL CHARACTER			SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA						
LOWER CRETACEOUS, ALBIAN	(F) Aptian or Older	Calcareous and arenaceous benthonic species	NONE	NONE	1	0.5	VOID			Semi-lithified, undisturbed olive black (515/2) claystone.
			NONE	NONE	2	1.0		-41	515/2/1	QUARTZ AND FELDSPAR RICH SILTY CLAY Smear slides 2-75, 4-75, 5-100, CC Texture Clay 71% Silt 29% Quartz (microcrys.) 43% Feldspar 30% Opaque 20% Pyrite 5% Nannos 2% Muscovite, heavies, glauconite, zeolite, and chlorite Tr.
			NONE	NONE	3			-XR	50-52	Coarse fraction chiefly clay aggregates, muscovite, quartz, and forams with traces of glauconite, opaques, and fish fragments. BULK X-RAY (458.8 m) Quartz 35% K-feldspar 22% Montmorillonite 17% Mica 16% Kaolinite 5% Pyrite 3% Chlorite 2%
			NONE	NONE	4			-75	515/2/1	
			NONE	NONE	5			120	515/2/1	
			NONE	NONE	6			-62	515/2/1	
			NONE	NONE	Core Catcher			-100	515/2 calcite rich	
			NONE	NONE	6			-62	515/2 calcite	
			NONE	NONE	Core Catcher			-CC	515/2 calcite-rich zone	

Site 263 Hole Core 21 Coned Interval: 518-527.5 m

AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHOLOGIC DESCRIPTION
		FORAMS NANNOS OTHERS	SECTION	0.5 1.0	VOID		Semi-lithified, undeformed claystone. Grayish black (562/1) to olive black (512/1) with streaks and laminae of black (102), somewhat silty clay laminae parallel to layering at 10 cm intervals. QUARTZ RICH CLAY Smear slides 2-80, 3-79, 4-65, 5-96, CC Composition Quartz (microcryst.) 61% Opalines 30% Pyrite 3% Feldspar 2% Nannos 2% Muscovite, heavy, zeolite, Tr. and micarb
		FORAMS NANNOS OTHERS	SECTION	2		-80	562/1 to 512/1 515/2 calcitic layer worm tubes? 562/1 to 512/1 clay spot 513/2 MS mottling pyrite nodule N2 to 562/1 pyrite nodule 97-101 pyrite nodule worm tubes? N2 to 562/1 517/2 mottling worm tubes? 517/2 mottling
		FORAMS NANNOS OTHERS	SECTION	5		-18	BULK X-RAY (522.0 m) Quartz 37% Kaolinite 22% Mica 18% Calcite 7% K-feldspar 5% Pyrite 5% Chlorite 3% Plagioclase 2% Monmorillonite 1%
		FORAMS NANNOS OTHERS	SECTION	Core Catcher		-96	517/2 calcite-rich layer with worm tubes? 517/2 tube 516/4 with calcite & worm tubes? scattered white specks kaolinite 516/1 with pyrite nodule 516/1 with 517/2 dolomitic zone with worm tubes?
		FORAMS NANNOS OTHERS	SECTION	Core Catcher		-CC	

Site 263 Hole Core 22 Coned Interval: 556-565.5 m

AGE	ZONE	FOSSIL CHARACTER	SECTION	METERS	LITHOLOGY	DEFORMATION	LITHOLOGIC DESCRIPTION
		FORAMS NANNOS OTHERS	SECTION	1			White kaolinite 516/1 517/2 worm structures? 516/4 worm structures? Smear slides 3-93, CC Composition Clay 63% Silt 37% Quartz (microcryst.) 55% Feldspar 30% Dolomite 7% Opalines 4% Pyrite 2% Muscovite, heavy, zeolite, nannos, and fish fragments Tr.
		FORAMS NANNOS OTHERS	SECTION	2		-25	N6 to N7 calcite-rich limestone
		FORAMS NANNOS OTHERS	SECTION	3		-62	white kaolinitic stringers 517/2 dolomite 516/4 mottling 70-72 N2 mottles on 517/2 with mottling of 515/2
		FORAMS NANNOS OTHERS	SECTION	Core Catcher		-CC	Coarse fraction - clay aggregates with traces of quartz, glauconite, pyrite, micarb, forams, mollusc fragments. BULK X-RAY (559.7 m) Quartz 36% Kaolinite 28% Mica 18% Monmorillonite 5% K-feldspar 3% Chlorite 2% Plagioclase 1%

Site 263 Hole Core 24 Cored Interval: 632-641.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION	METERS	LITHOLOGY	DEFORMATION	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
LOWER CRETACEOUS, UPPER ALBIAN	(F) Aptian or Older	Calcareous and arenaceous benthonic species			1	VOID	-75	Semi-lithified, undisturbed slightly silty claystone. Olive black (5Y2/1) with a few streaks of black (N2) and light gray (N7). Pyrite common; white calcareous specks, may be fossils.	
					2		-67 -65	QUARTZ RICH SILTY CLAY Smear slides 1-75, 2-65, 3-75, 4-70, 6-75 Texture 51% Clay Composition 49% Quartz (microcryst.) 61% Feldspar 2% Pyrite 1% Opaque Heavies, muscovite, glauconite, dolomite rhombs, zeolite, micarb, nanos, and fish fragments	
					3		-XR -75	Coarse fractions - clay aggregates with traces of quartz, muscovite, glauconite, forams, fish remains. BULK X-RAY (635.1 m) Quartz 38% Kaolinite 26% Mica 21% Montmorillonite 5% K-feldspar 4% Pyrite 3% Chlorite 2% Plagioclase 1%	
					4		-70	pyrite nodule white kaolinitic streaks	
					5		-150 (2)	white kaolinitic streaks 1-2 mm white kaolinitic spheres pyrite nodules	
					6		-75	5Y7/2 nodule	
					Core Catcher			5Y7/2 calcitic layer 5Y2/1	

Site 263 Hole Core 23 Cored Interval: 594-603.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION	METERS	LITHOLOGY	DEFORMATION	LITHOLOGIC DESCRIPTION
		FORAMS	NANNOS	RADIOLARIA					
LOWER CRETACEOUS, UPPER ALBIAN	(N) Eiffelithus turrisseiffelii (Upper Albian)	Calcareous and arenaceous benthonic species			1	VOID	-GZ -75	Semi-lithified, undisturbed slightly silty claystone; olive black (5Y2/1); no beds; slightly calcareous; pyrite specks common; white kaolinite specks. QUARTZ RICH SILTY CLAY Smear slides 2-75, 3-75, 4-75, 5-75 Texture 52% Clay Composition 48% Quartz 4% Feldspar 3% Nannos 2% Muscovite, heavies, glauconite, dolomite rhombs, zeolite, micarb, and fish fragments Tr. of quartz, muscovite, glauconite, pyrite, micarb, forams, and fish remains. BULK X-RAY (597.2 m) Quartz 36% Kaolinite 23% Pyrite 23% Montmorillonite 6% K-feldspar 5% Plagioclase 4% Chlorite 7%	
					2		-XR -75	pyrite nodule 20-23 bedding?	
					3		-75	5Y6/1 calcite-rich	
					4		-75	5Y6/4 dolomite with calcite	
					5		-GZ -75	35 5Y2/1	
					Core Catcher			5Y2/1	

Site 263 Hole Core 26 Cored Interval: 698.5-708 m

AGE	ZONE	FOSSIL CHARACTER			SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	MANNOS	RADIOLARIA						
LOWER CRETACEOUS, ALBIAN	(F) Aptian or Older (N) Eiffelithus turriseiffelii?	Calcareous and arenaceous benthonic species	NONE	NONE	1	VOID			Semi-lithified, undisturbed, slightly claystone; olive black (SY2/1); no bedding; slightly calcareous; pyrite common. Dolomite and calcite nodules and layers. QUARTZ BEARING CLAY Shear slides 2-74, 3-105, 4-75, CC Composition Clay 87% Quartz 2-15% Opalines 2% Pyrite 2% Mannos 1% Feldspar, heavies, glauconite, dolomite rhombs, micarb, and fish fragments Tr.	
					2				N7 streaks SY2/1	
					3				white calcite SY2/1	
					4				fossil white shells 5V4/1 5V5/2	
					5				Coarse fraction - clay aggregates, a few forams and traces of quartz, feldspar, glauconite, pyrite, and fish fragments.	
					6				nodules and veinlet 75	
					7				calcite veinlet calcite calcite SY2/1	
					8				calcite kaolinitic spheres in calcite-rich matrix 70	
					9				5V6/1, calcite-rich -CC SY2/1	

Site 263 Hole Core 25 Cored Interval: 670-679.5 m

AGE	ZONE	FOSSIL CHARACTER			SECTION	METERS	LITHOLOGY	DEFORMATION	LITHO. SAMPLE	LITHOLOGIC DESCRIPTION
		FORAMS	MANNOS	RADIOLARIA						
LOWER CRETACEOUS, ALBIAN	(F) Aptian or Older (N) Eiffelithus turriseiffelii?	Calcareous and arenaceous benthonic species	NONE	NONE	1	VOID			Semi-lithified, undisturbed, slightly claystone; olive black (SY2/1); no bedding; slightly calcareous; pyrite common. Dolomite and calcite nodules and layers. QUARTZ BEARING CLAY Shear slides 2-74, 3-105, 4-75, CC Composition Clay 87% Quartz 2-15% Opalines 2% Pyrite 2% Mannos 1% Feldspar, heavies, glauconite, dolomite rhombs, micarb, and fish fragments Tr.	
					2				calcite-rich area SY2/1	
					3				dolomite nodule 5V7/2 5V2/1	
					4				71-72 5V6/1 with 1-3 mm white kaolinite spherical to ellipsoidal nodules of kaolinite 5V6/1 with 1-3 mm white spheres 10V84/2, slightly calcareous 5V2/1 dolomite -65 -75	
					5				BULK X-RAY (673.7 m) Kaolinite 88% Calcite 6% Quartz 3% Monmorillonite 2% Mica 1%	
					6				Coarse fraction - clay aggregates with traces of quartz, muscovite, white spheres, pyrite, forams, and fish fragments. 77-72 5V6/1 with 1-3 mm white kaolinite spherical to ellipsoidal nodules of kaolinite 5V6/1 with 1-3 mm white spheres 10V84/2, slightly calcareous 5V2/1 dolomite -65 -75	
					7				75	
					8				CC 5V2/1	

Site 263	Hole	Core 29	Cored Interval: 736.5-746 m
AGE	LOWER CRETACEOUS, ALBIAN		
ZONE	(F) Aptian or Older (Pm) C. stylosus (Neocomian)		
FORAMS	Calcareous and arenaceous benthonic species		
NANNOS			
RADIOLARIA	NONE		
OTHERS			
SECTION			
METERS			
LITHOLOGY			
DEFORMATION			
LITHO. SAMPLE			
LITHOLOGIC DESCRIPTION	Semi-lithified, undisturbed, slightly calcareous, slightly silty claystone. Carbonate veins, zones, and layers. QUARTZ RICH SILTY CLAY Shear slides 2-80, 4-80, CC Composition Clay 64% Quartz (microcryst.) 47% Silt 36% Opauques 44% Pyrite 3% Heavy minerals 2% Muscovite, zeolite, rhombs, and fish fragments Tr. white calcite vein 5Y2/1 white spheres of kaolinite 10G/1 pyritized burrow in M4 calcite-rich zone 6Z BULK X-RAY (739.6 m) Quartz 46% Mica 19% Pyrite 17% Montmorillonite 5% Chlorite 2% Calcite 2% Plagioclase 1% white spheres of kaolinite 5Y2/1		

Site 263	Hole	Core 27	Cored Interval: 708-717.5 m
AGE	LOWER CRETACEOUS, ALBIAN		
ZONE	**		
FORAMS	RP ***		
NANNOS	CP		
RADIOLARIA	NONE		
OTHERS			
SECTION			
METERS			
LITHOLOGY			
DEFORMATION			
LITHO. SAMPLE			
LITHOLOGIC DESCRIPTION	Semi-lithified, highly deformed, olive black (5Y2/1) slightly calcareous, slightly silty claystone. QUARTZ BEARING CLAYSTONE Coarse fraction - clay aggregates, a few forams, opauques, and traces of quartz, muscovite, glauconite, pyrite. ** (F) Aptian or Older (N) Etffellithus turrisseiffelii? * LOWER CRETACEOUS, ALBIAN *** Calcareous and arenaceous benthonic species		

Site 263	Hole	Core 28	Cored Interval: 727-736.5 m
AGE	LOWER CRETACEOUS, ALBIAN		
ZONE	(F) Aptian or Older		
FORAMS	Calcareous and arenaceous benthonic species		
NANNOS			
RADIOLARIA	NONE		
OTHERS			
SECTION			
METERS			
LITHOLOGY			
DEFORMATION			
LITHO. SAMPLE			
LITHOLOGIC DESCRIPTION	calcite 5Y2/1 calcite-rich layer 5Y2/1 8Z calcite-rich layer Tr. GLAUCONITE SANDSTONE Shear slide CC Composition Calcite cement 40% Glauconite 35% Clay clasts 15% Chert 7% Quartz 2% Feldspar, mica, and opauques Tr. 141-150 white spheres of kaolinite BULK X-RAY (731.4 m) 5Y2/1 and 5B6S/2 Kaolinite 47% green glauconitic Quartz 20% Sandstone Montmorillonite 2% Mica 1% Pyrite 1% Calcite 1%		

Core 29 Cored Interval: 736.5-746 m

Core 27 Cored Interval: 708-717.5 m

Core 28 Cored Interval: 727-736.5 m