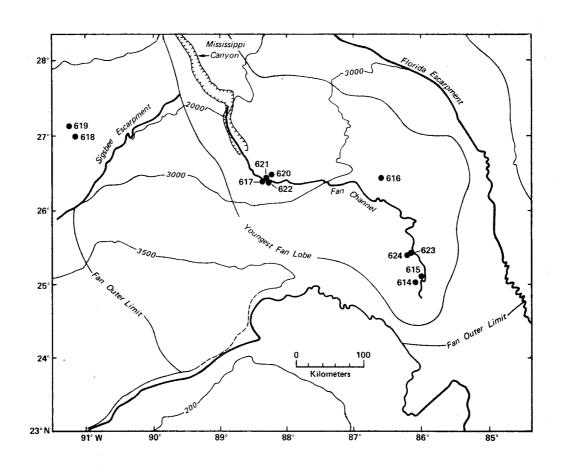
INITIAL CORE DESCRIPTIONS

DEEP SEA DRILLING PROJECT

LEG 96 GULF OF MEXICO



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

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SANTA BARBARA • SANTA CRUZ

SCRIPPS INSTITUTION OF OCEANOGRAPHY
Deep Sea Drilling Project, A-031

LA JOLLA, CALIFORNIA 92093

January 15, 1985

Dear Colleague:

This document has been produced and distributed by the Deep Sea Drilling Project for the purpose of sample selection by interested earth scientists. Sample requests are honored two months after publication of the Initial Core Descriptions. It is an interim and informal document consisting of site data and sedimentologic and paleontologic data and interpretations as known six (6) months post-cruise. These data, while adequate for most sample selection needs, are subject to slight revision by the time of issue of the corresponding volume of the *Initial Reports* of the Deep Sea Drilling Project.

The information contained herein is preliminary and privileged, consequently this document is not to be cited or used as the basis of other publications. Data cited or used in a manuscript will be considered a breach of professional ethics.

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

Sincerely,

Yves Lancelot Chief Scientist

Deep Sea Drilling Project

YL:eb

INITIAL CORE DESCRIPTIONS

DEEP SEA DRILLING PROJECT

LEG 96

GULF OF MEXICO

September 29-November 8, 1983

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

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Lamont-Doherty Geological Observatory, Columbia University
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^{*} Participating on first half only.

^{**} Participating on second half only.

EXPLANATORY NOTES

INTRODUCTION

This *Initial Core Description* is presented here to aid investigators in selecting samples for detailed study. Samples from this leg become available to the public about 8 months after the cruise, with the completion of this *Initial Core Description*.

Potential investigators who desire to obtain samples should refer to the DSDP-NSF Sample Distribution Policy. Sample request forms may be obtained from:

The Curator

Deep Sea Drilling Project, A-031
University of California, San Diego
La Jolla, California 92093

Requests must be as specific as possible: include site, core, section, interval within a section, and volume of sample required. The purpose of this publication is to aid interested investigators in understanding the (1) terminology, labeling, and numbering conventions used by the Deep Sea Drilling Project (DSDP); (2) sediment classification and biostratigraphic framework used; and in addition, (3) to present the preliminary lithologic and paleontologic data on core forms, so that sampling can be guided. However, the investigator should be aware that the data is subject to future revision.

NUMBERING OF SITES, HOLES, CORES, SAMPLES

DSDP drill sites are numbered consecutively from the first site drilled by *Glomar Challenger* in 1968. Site numbers are slightly different from hole numbers. A site number refers to one or more holes drilled while the ship was positioned over one acoustic beacon. These holes could be located within a radius as great as 900 meters from the beacon. Several holes may be drilled at a single site by pulling the drill pipe above the sea floor (out of one hole) and moving the ship 100 meters or more from the previous hole, and then begin drilling another hole.

The first (or only) hole drilled at a site takes the site number. A letter suffix distinguishes each additional hole at the same site. For example: the first hole takes only the site number; the second takes the site number with suffix A; the third takes the site number with suffix B, and so forth. It is important, for sampling purposes, to distinguish the holes drilled at a site, since recovered sediments or rocks from different holes usually do not come from equivalent positions in the stratigraphic column.

There are two types of coring systems used on the *Glomar Challenger*: (1) the standard DSDP rotary-coring system, which cuts \sim 9.5 meter-long cores and has been used since Leg 1; and (2) the Hydraulic Piston Coring (HPC) system, used since Leg 64.

HPC holes are not assigned a special letter designation. The HPC operates on the principle of a core barrel which is lowered inside the drill string, hydraulically ejected into the sediment and retrieved. The pipe is then lowered to the next interval and

the procedure repeated. Disturbance can occur in the top 50-100 cm of HPC cores especially near the top of a hole. The standard DSDP rotary coring system typically disturbs the cores in the upper 100 meters of any hole, and generally half or more of each core is quite disturbed.

The cored interval is measured in meters below the sea floor. The depth interval of an individual core is the depth below sea floor that the coring operation began to the depth that the coring operation ended. For example, in the rotary-coring system, each coring interval is generally 9.5 meters long, which is the nominal length of a core barrel; however, the coring interval may be shorter or longer (rare). "Cored intervals" are not necessarily adjacent to each other, but may be separated by "drilled intervals". In soft sediment, the drill string can be "washed ahead" with the core barrel in place, but no recovering sediment, by pumping water down the pipe at high pressure to wash the sediment out of the way of the bit and up the space between the drill pipe and wall of the hole; however, if thin hard rock layers are present, then it is possible to get "spotty" sampling of these resistant layers within the washed interval, and thus have a cored interval greater than 9.5 meters. In drilling hard rock, a center bit may replace the core barrel if it is necessary to drill without core recovery.

Cores taken from a hole are numbered serially from the top of the hole downward. Core numbers and their associated cored interval in meters below the sea floor are normally unique for a hole; however, problems may arise if an interval is cored twice. When this situation occurs, the core number is assigned a suffix, such as "S"* for supplementary.

In the rotary-coring system, full recovery for a single core is normally 9.28 meters of sediment or rock, which is in a plastic liner (6.6 cm I. D.), plus about a 0.2 meter-long sample (without a plastic liner) in the Core-Catcher. The Core-Catcher is a device at the bottom of the core barrel which prevents the cored sample from sliding out when the barrel is being retrieved from the hole. The sediment-core, which is in the plastic liner, is then cut into 1.5 meter-long sections and numbered serially from the top of the sediment-core (Figure 1). When we obtain full recovery, the sections are numbered from 1 through 7 with the last section possibly being shorter than 1.5 meters. The Core-Catcher sample is placed below the last section when the core is described, and labeled Core-Catcher (CC): it is treated as a separate section.

When recovery is less than 100 percent, and if the sediment or rock is contiguous, the recovered sediment is placed in the top of the cored interval, and then 1.5 meter-long sections are numbered serially, starting with Section 1 at the top. There will be as many sections as are needed to accommodate the length of the core recovered (Figure 1); for example, 3 meters of core sample in plastic liners will be divided into two 1.5 meter-long sections. Sections are cut starting at the top of the recovered sediment, and the last section may be shorter than the normal 1.5 meter length.

This technique differs from the labeling systems used on Legs 1 through 45, which had a designation called "zero section". On Legs 1–45 there were seven sections labeled 0, 1, 2, 3, 4, 5, and 6. The new system used from Legs 46 to the present, has seven sections, but they are labeled 1, 2, 3, 4, 5, 6, and 7.

When recovery is less than 100 percent, the sediment's original stratigraphic position in the cored interval is unknown, so we employ the convention assigning the top of the sediment recovered to the top of the cored interval. This is done for convenience in data handling, and consistency. If recovery is less than 100 percent, and core fragments are separated, and if shipboard scientists believe the sediment was not contiguous, then sections are numbered serially and the intervening sections

^{*} Note that this designation has been used on previous legs as a prefix to the core number for sidewall core samples.

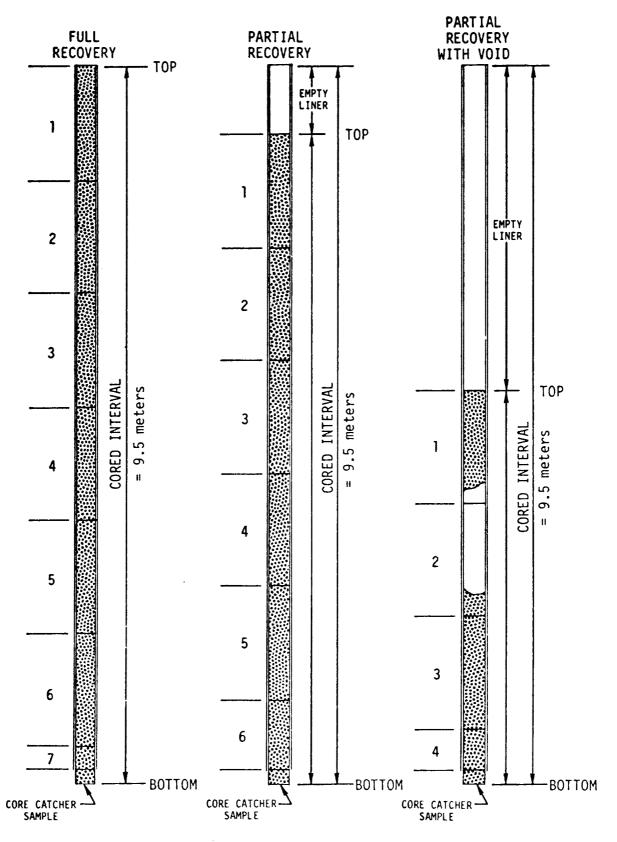


Figure 1. Diagram showing procedure in cutting and labeling of core sections.

are noted as void, whether it is contiguous or not. The Core-Catcher sample is described in the visual core descriptions beneath the lowest section.

Samples are designated by centimeter distances from the top of each section to the top and bottom of the sample in that section. A full identification number for a sample consists of the following information:

Leg

Site

Hole

Core Number

Interval in centimeters from the top of section

For example, a sample identification number of "75-531A-6-3, 12—14 cm" is interpreted as follows: 12—14 cm designates a sample taken at 12 to 14 cm from the top of Section 3 of Core 6, from the second hole drilled at Site 531 during Leg 75. A sample from the Core-Catcher of this core is designated as "75-531A-6, CC, 12—14 cm".

The depth below the seafloor for a sample numbered at "75-531A-6-3, 12-14 cm", is the summation of the following: (1) the depth to the top of the cored interval for Core 6, which is 430 meters; (2) plus 3 meters for Sections 1 and 2 (each 1.5 meters long); and plus the 12 cm depth below the top of Section 3. All of these variables add up to 433.21 meters*, which by convention is the sample depth below the sea floor.

HANDLING OF CORES CONTAINING SEDIMENTS

A core containing sediments is normally cut into 1.5 meter sections, sealed, and labeled; and then the sections are brought into the core laboratory for processing. The following determinations are normally made before the sections are split: gas analysis, and continuous wet-bulk density determinations using the Gamma Ray Attenuation Porosity Evaluation (GRAPE) as described in Boyce (1976).

The cores are then split longitudinally into "work" and "archive" halves**. Samples are extracted from the "work" half, including those for determination of grain-size distribution, mineralogy by x-ray diffraction, sonic velocity by the Hamilton Frame method as described in Boyce (1976), wet-bulk density by a static GRAPE technique (Boyce, 1976), water content by gravimetric analysis, carbon-carbonate analysis, percent calcium carbonate (Carbonate Bomb), geochemical analysis, paleontological studies, and others.

Smear slides or thin sections from each major lithology, and most minor lithologies, are prepared and examined microscopically. The archive half is then described and photographed. Physical disturbance by the drill bit, color, texture (for uncemented lithologies), and sedimentary and igneous structures and composition ($\pm 20\%$) of the various lithologies are noted on standard core description sheets.

^{*} Sample requests should refer to a specific interval within a core-section, rather than the level below sea floor.

^{**} In the HPC system the cores are oriented relative to each other, thus, for example, all archive halves are on the same side of the hole. We do not know, however, their orientation relative to the Earth's magnetic north.

After the cores are sampled and described, they are maintained in cold storage aboard *Glomar Challenger* until they can be transferred to the DSDP repository. Core sections which are removed for organic geochemistry study are frozen immediately on board ship and kept frozen. Frozen cores are presently stored at the DSDP West Coast Repository (Scripps Institution of Oceanography).

These core descriptions, smear slide descriptions (plus occasional peels and thin sections) and carbonate bomb (% CaCO₃) determinations (all of these data are determined aboard ship) serve as the data for the visual core descriptions presented here. These samples, and their location in the core, are coded with a symbol on the core description sheets. The key to these codes, in order to identify the samples, is in Figures 2–6.

SPECIAL CORES AND SAMPLES

Occasionally, special cores or samples are recovered that require specific identification. These are designated as follows:

- X = miscellaneous debris or out-of-sequence core material.
- C = center bit samples; i. e., samples obtained upon removal of the center bit (a device to prevent core recovery while drilling or washing ahead for some interval).
- S = side-wall core; i.e., a core taken in the side of the hole, usually to obtain a sample of material not recovered during previous coring.
- H = a wash core; i. e., a core taken while washing ahead for an interval larger than 9.5 m (say, 50 m), but without the center bit in place. Such a core may sample at several places in the washed interval, but their depths cannot be specified within that interval.
- B = bit material; i. e., material removed from core bits upon retrieval of the drill string following completion of a hole, or prior to re-entry with a new core bit.

Cores or samples of these types are designated X1, X2, H1, H2, etc., each type in the sequence they were obtained. Additional types of special samples may be designated by the shipboard party or cruise operations manager. The letter designation for these samples is chosen in consultation with the DSDP curatorial representative and laboratory officer, and is indicated on each core description form.

DESCRIPTION OF SEDIMENTS

The following is the sediment description and classification scheme devised by the JOIDES Sedimentary Petrology and Physical Properties Panel, and approved by the JOIDES Planning Committee in March, 1974. In the past, shipboard parties have, in some instances, found it necessary to modify or amend the classification for their particular situation. Any modifications to the classification for the cores described herein are presented in the section following the JOIDES classification.

SITE		HOLE						CORE		CORED	IN.	INTERVAL			(meters below the sea floor)		
	HIC		FOSSIL CHARACTER					1									
TIME - ROCK UNIT	BIOSTRATIGRAPHIC ZONE	FORAMINIFERS				SECTION	METERS	GRAPHIC LITHOLOGY		SEDIMENTARY STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION					
	(D) = Diatom Zones		ABUNDANCE: A = Abundant C = Common E = Few R = Rare B = Barren				1	0.5		Soupy O O O		= Smear Slide	be put along this edge.	GENERAL LITHOLOGIC DESCRIPTION OF CORE Detail at the discretion of sedimentologist for particular Site (Hole). SMEAR SLIDE SUMMARY (%): Section, Depth (cm) 2, 100 Lith. (D = Dominant; M = Minor) D			
	Zones	P G M P	1	ESERVATION: = Good = Moderate = Poor		l:	2		/ symbols (Figure 3).	8		*	Color symbols (Munsell and GSA) may be put along this edge.	Texture: Composition: CARBONATE BOMB (% CaCO ₃): 1, 10–12 cm = 10 2, 11–13 cm = 11			
	(R) = Radiolarian Zones							3		See key to graphic lithology symbols (Figure 3).	Very Deformed	See key for sediment structures (Figure 4).	• = Carbonate Bomb	Color symbols (
	:) = Foraminifer Zones							4			Moderate	See key for sedin	• = Carbon	-			
	(F)								=		Mod						
	S							5		IW			T = Thin Section	•	Interstitial — Water Sample		
	(N) = Nannofossil Zones			: :				6		OG	Sight DO	Ilibiio	<u>1</u>	•	Organic – Geochemistry Sample		
	1)							_ L	7 = CC		PP				•	Physical - Properties Sample	

Figure 2. This is a typical sedimentary core description sheet, with the sediment deformation symbols, sample codes, and other general information.

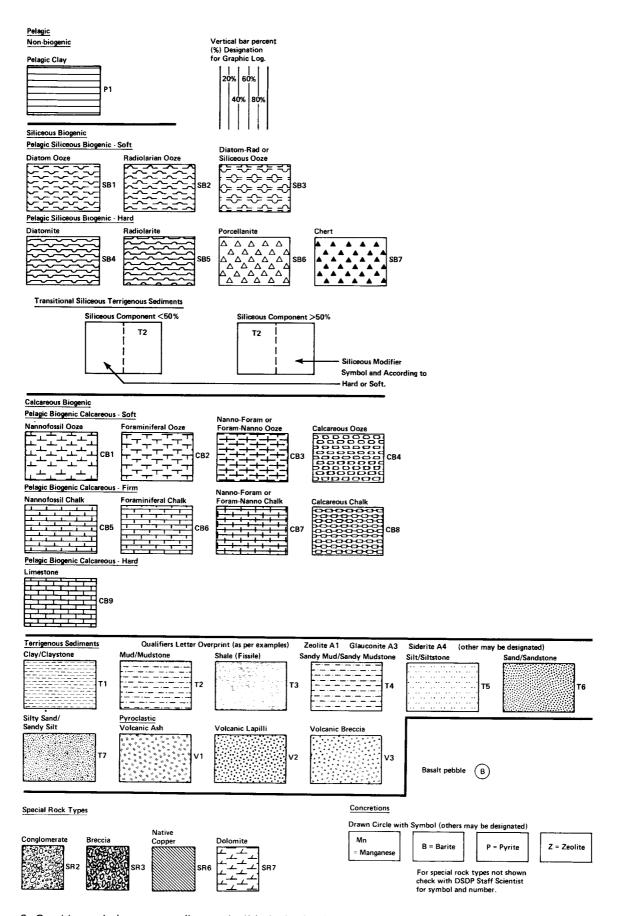


Figure 3. Graphic symbols corresponding to the lithologic visual core descriptions for sediment and sedimentary rocks.

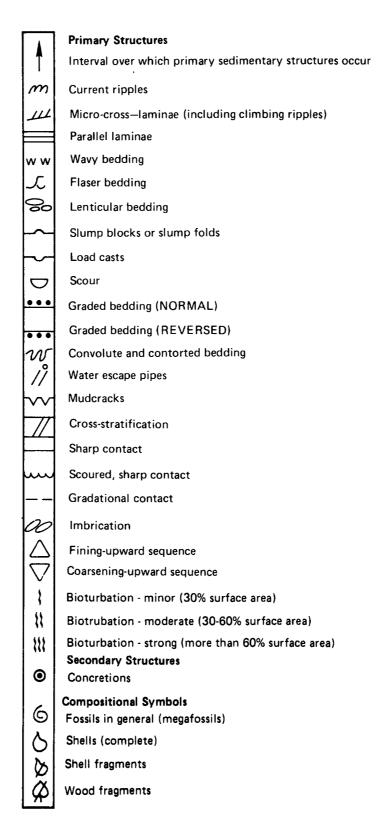


Figure 4. Structure symbol code for sediments.

	Millimeters	Phi (ϕ) units	Wentworth size class
2.00	2	- 1.0	Granule
1.68 1.41 1.19	1	0.75 0.5 0.25 0.0	Very coarse sand
0.84 0.71 0.59	1/2	0.25 0.5 0.75	Coarse sand
0.42 V 0.35 0.30	1/4	1.25 1.5 1.75	Medium sand
0.210 0.177 0.149	1/8	2.25 2.5 2.75	Fine sand
0.105 0.088 0.074	1/16	3.25 3.5 3.75	Very fine sand
0.053 ⊢ 0.044 ⊣ 0.037	1/32	4.25 4.5 4.75	Coarse silt
0.0155	1/64	— 6.0 	Medium silt
0.0039	1/128 1/256	 8.0 	Very fine silt
0.0020 0.00098 ⊃ 0.00049 ≥ 0.00024 0.00012 0.00006		9.0 10.0 11.0 12.0 13.0 14.0	Clay

Figure 5. Grade scales for terrigenous sediments.

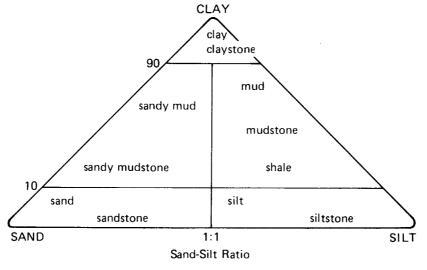


Figure 6. Class boundaries for terrigenous sediments.

CLASSIFICATION OF SEDIMENTS

Several lithologic classifications designed for the construction of the several graphic core and hole summaries have been used during the lifetime of the Deep Sea Drilling Project. The classification system described here has been devised by the JOIDES Panel on Sedimentary Petrology and Physical Properties and adopted for use by the JOIDES Planning Committee in March 1974.

Principles Used in Classification

- 1 This is a lithologic summary classification designed to generalize core descriptive material of greater detail into a form suitable for standard core and hole logs. Its systematic use will facilitate core to core and leg to leg comparisons.
- 2 The classification covers most of the lithologic types encountered so far but does not attempt to be comprehensive. A category "Special Rock Types" shows additional definitions and terminology at the discretion of the shipboard staff for rock types not covered.
 - 3 Sediment names are those in common usage and have been defined within the limits of existing definitions.
- 4 Categories are based on sediment parameters measured on board ship. Refinement by shore laboratory data is possible but not necessary.
 - 5 The classification is descriptive and genetic implications are not intended.
 - 6 The degree of detail of the classification is scaled to the space limitations of printed graphic hole and core summaries.

Shipboard Parameters Measured

Sediment and rock names are defined solely on the basis of compositional and textural parameters. The compositional factors are most important for description of those deposits more characteristic of open marine conditions, with textural factors becoming more important for the classification of hemipelagic and near-shore facies. Sediment names are thus based solely upon these parameters as determined in smear slides aided by compositional and textural properties apparent to the naked eye or under the hand lens. Other descriptive parameters include: induration, sediment disturbance, sedimentary structures, and color. The determination of these parameters is as follows:

- 1) Composition biogenic and mineral components are estimated in percent from smear slides. CaCO₃ content is estimated by using the carbonate bomb available on the ship. Even with rapid use, a value to ±5% is achievable.
 - 2) Texture visual estimates from smear slide examination.
- 3) Induration The determination of induration is highly subjective, but field geologists have successfully made similar distinctions for many years. The categories suggested here are thought to be practical and significant. The criteria of Moberly and Heath (1971) are used for calcareous deposits; subjective estimate or behavior in core cutting for others. There are three classes for calcareous sediments; two for all others.

a) Calcareous sediments

- (i) Soft: Oozes have little strength and are readily deformed under the finger or the broad blade of a spatula.
- (ii) Firm: Chalks are partly indurated oozes: they are friable limestones that are readily deformed under the fingernail or the edge of a spatula blade. More indurated chalks are termed limestones (see below).
- (ii) Hard: Limestones as a term should be restricted to cemented rocks.

- b) The following criteria are recommended for all but calcareous sediments:
 - (i) If the material is low state of induration as to allow the core to be split with a wire cutter, the sediment name only is used (e.g., silty clay: mud).
 - (ii) If the core must be cut on the band saw or diamond saw, the suffix 'stone' is used (e. g., silty claystone: mudstone; or shale, if fissile.)
- 4) Sediment Disturbance Deformational structures are generally of the type found in piston cores, and are usually simple to visualize and interpret.
 - a) Soft to firm sediment: The following categories are recommended.
 - Slightly deformed bedding contacts are slightly bent.
 - (ii) Moderately deformed bedding contacts have undergone extreme bowing.
 - (iii) Very deformed bedding is completely disturbed, sometimes showing symmetrical diapir-like structure.
 - (iv) Soupy water saturated intervals which have lost all aspects of original bedding.
 - b) Hard sediments: There is also the need to indicate the degree of fracturing in hard sediments/rock. This is best accomplished with a written description in the Lithologic Description portion of the Core Form (Figure 2).
 - c) Drilling "Biscuits" semi-indurated sediments are broken into flat 3-5 cm or so "biscuits" which internally are undeformed, but were rotated against each other resulting in lenses of soft, intensely deformed mud or ooze inbetween. Description of this is also best accomplished using the Lithologic Description portion of the Core Form (Figure 2).
- 5) Sedimentary structures in many cores it is extremely difficult to differentiate between natural and coring-induced structures. Consequently, the description of sedimentary structures is optional. The following approach is suggested as a quideline, but the specialist is encouraged to use his own preferred system and set of symbols.
 - a) Median grain size profile: For the sections of terrigenous sediments, with interbeds of varying textural characteristics, the construction of median grain size profile based on hand lens observations provides a rapid method for illustrating graded and non-graded beds, bed thickness, and size distribution.
 - b) Sedimentary structures: A set of suggested symbols is provided for categories shown on Figure 4.
 - 6) Color According to standard Munsell and GSA color charts.

Use of the Core Form

- 1) Mandatory Graphic Lithology Column This graphic column is based on the above classification scheme. Completion of the column using the appropriate symboles (Figure 3) must be done for each site, and will be inclued in the *Initial Core Description (ICD)* and *Initial Report Volume*. The "Special Rock Type" category should be used for sediment types not in the classification.
 - a) Optional graphic column: If circumstances or the special skills and interests of the shipboard staff indicate an additional modified or different classification, another graphic column may be added to the right of the Mandatory Column using definitions, terminology, and symbols that, in the opinion of the shipboard staff, will increase the information yield. This Optional Column must not substitute for the Mandatory Column.

- 2) Sediment disturbance column Completion of the sediment disturance column using symbols and distinctions given below is mandatory.
- 3) Sedimentary structure columns Structures may be designated on the core form in the sedimentary structure column parallel to the sediment disturbance column, and/or on the median grain size profile (for the sections of terrigenous sediments, with interbeds of varying textural characteristics). The median grain size profile is located in the lithologic description portion of the core form. A set of suggested symbols for a few more common structures has been prepared by DSDP (Figure 4), but the shipboard geologist is free to use whatever additional symbols he may wish. These optional columns may not substitute for the mandatory sediment disturbance column and must be distinct from it.
- 4) Lithologic description column Format, style, and terminology of the descriptive portion of the core sheets are not controlled by the mandatory column scheme, beyond the minimal name assignment which should be derived from this classification. However, colors and additional information on structure and textures should normally be included in the textural section of the core description.

Lithologic Classification Scheme

The following define compositional class boundaries and use of qualifiers in the lithologic classification scheme:

- 1) Compositional Class Boundaries
 - a) CaCO₃ content (determined by CaCO₃ bomb): 30% and 60%. With a 5% precision and given the natural frequency distribution of CaCO₃ contents in oceanic sediments, these boundaries can be reasonably ascertained.
 - b) Biogenic opal abundance (expressed as percent siliceous skeletal remains in smear slides): 10%, 30%, and 50%. Smear-slide estimates of identifiable siliceous skeletal material generally imply a significantly higher total opal abundance. The boundaries have been set to take this into account.
 - c) Abundance of authigenic components (zeolites, Fe, and Mn micronodules etc), fish bones, and other indicators of very slow sedimentation (estimated in smear slides); semiquantitative boundary: common 10%. These components are quite conspicuous and a semiquantitative estimate is adequate. Even a minor influx of calcareous, siliceous, or terrigenous material will, because of the large difference in sedimentation rate, dilute them to insignificance.
 - d) Abundance of terrigenous detrital material (estimated from smear slides): 30%.
 - e) Qualifiers: Numerous qualifiers are suggested; the options should be used freely. However, components of less than 5% (in smear slide) should not be used as a qualifier except in special cases. The most important component should be the last qualifier. No more than two qualifiers should be used.

Description of Sediment Types

1) Pelagic clay — Principally authigenic pelagic deposits that accumulate at very slow rates. The class is often termed brown clay, or red clay, but since these terms are confusing, they are not recommended.

- a) Boundary with terrigenous sediments: Where authigenic components (Fe/Mn micronodules, zeolites), fish debris, etc., become common in smear slides. NOTE: Because of large discrepancy in accumulation rates, transitional deposits are exceptional.
- b) Boundary with siliceous biogenic sediments: <30% identifiable siliceous remains.
- c) Boundary with calcareous biogenous sediments: Generally the sequence is one passing from pelagic clay through siliceous ooze to calcareous ooze, with one important exception: at the base of many oceanic sections, black, brown, or red clays occur directly on basalt, overlain by or grading up into calcareous sediments. Most of the basal clayey sediments are rich in iron, manganese and metallic trace elements. For proper identification they require more elaborate geochemical work than is available on board. These sediments are placed in the "Special Rock" category, but care should be taken to distinguish them from ordinary pelagic clays.
- 2) Pelagic siliceous biogenic sediments These are distinguished from the previous category because they have more than 30% identifiable siliceous microfossils. They are distinguished from the following category by a CaCO₃ content of less than 30%. There are two classes: *Pelagic biogenic siliceous sediments* (containing less than 30% silt and clay); and *transitional biogenic siliceous sediments* (containing more than 30% silt and clay and more than 10% diatoms).
 - a) Pelagic biogenic siliceous sediments:

soft: Siliceous ooze (radiolarian ooze, diatom ooze, depending on dominant component).

hard: radiolarite porcellanite

diatomite chert

(i) Qualifiers:

Radiolarians dominant: radiolarian ooze or radiolarite.

Diatoms dominant: diatom ooze or diatomite.

Where uncertain: siliceous (biogenic) ooze, or chert or porcellanite, when containing >10% CaCO₃,

qualifiers are as follows:

indeterminate carbonate: calcareous - -

or

nannofossils only: nannofossil - - foraminifers only: foraminifer - -

nannofossil-foraminifer - - depending on dominant component

foraminiferal-nannofossil - -

b) Transitional biogenic siliceous sediments:

Diatoms < 50% diatomaceous mud: soft

diatomaceous mudstone: hard

Diatoms >50% muddy diatom ooze: soft

muddy diatomite: hard

Radiolarian equivalents in this category are rare and can be specifically described.

3) Pelagic biogenous calcareous sediments — These are distinguished from the previous categories by a CaCO₃ content in excess of 30%. There are two classes: Pelagic biogenic calcareous sediments (containing less than 30% silt and clay); and transitional biogenic calcareous sediments (containing more than 30% silt and clay).

a) Pelagic biogenic calcareous sediments:

soft: calcareous ooze

firm: chalk

hard: indurated chalk

The term limestone should preferably be restricted to cemented rocks.

(i) Compositional Qualifiers ≤-

Principal components are: nannofossils and foraminifers.

One or two qualifiers may be used, for example:

Foram % Name

<10 Nannofossil ooze, chalk, limestone

10-25 Foraminiferal-nannofossil ooze

25-50 Nannofossil-foraminifer ooze

>50 Foraminifer ooze

Calcareous sediment containing more than 10–20% identifiable siliceous fossils carry the qualifier radiolarian, diatomaceous, or siliceous depending on the quality of the identification. For example, radiolarian-foraminifer ooze.

b) Transitional biogenic calcareous sediments

(i) CaCO₃ = 30–60%: marly calcareous pelagic sediments

soft: marly calcareous (or nannofossil, foraminifer, etc.), ooze (see below)

firm: marly chalk

hard: marly limestone

(ii) CaCO₃ >60%: Calcareous pelagic sediments.

soft: calcareous (or nannofossil, foraminifer, etc.), ooze (see below)

firm: chalk

hard: limestone

NOTE: Sediments containing 10-30% CaCO₃ fall in other classes where they are denoted with the adjective "calcareous." Less than 10% CaCO₃ is ignored.

4) Terrigenous sediments

Sediments falling in this portion of the classification scheme are subdivided into textural groups on the basis of the relative preportions of three grain size constituents, i. e., clay, silt, and sand. Rocks coarser than sand size are treated as "Special Rock Types." The size limits for these constituents are those defined by Wentworth (1922) (Figure 5).

Five major textural groups are recognized on the accompanying triangular diagram (Figure 6). These groups are defined according to the abundance of clay (> 90%, 90-10%, < 10%) and the ratio of sand to silt (> 1 or < 1).

The terms clay, mud, sandy mud, silt, and sand are used for the soft or unconsolidated sediments which are cut with a wire in the shipboard core splitting process. The hard or unconsolidated equivalents for the same textural groups are claystone, mudstone (or shale, if fissile), sandy mudstone, siltstone, and sandstone. Sedimentary rocks falling into the consolidated category include those which must generally be cut with the band saw or diamond saw. Sands medium-, coarse-, or very coarse-grained sands and sandstones according to their median grain size.

(i) Qualifiers — In this group numerous qualifiers are possible, usually based on minor constituents, for example: glaconitic, pyritic, feldspathic. In the sand and sandstone category, conventional divisions such as arkose, graywacke, etc., are, of course, acceptable, providing the scheme is properly identified. Clays, muds, silts, and sands containing 10–30% CaCO₃ shall be called calcareous.

b) Volcanogenic sediments

Pyroclastic rocks are described according to the textural and compositional scheme of Wentworth and Williams (1932). The textural groups are:

Volcanic breccia >32 mm

Volcanic Iapilli <32 mm

Volcanic ash (tuff, indurated) <4 mm

Compositionally, these pyroclastic rocks are described as vitric (glass), crystal or lithic.

c) Clastic sediments of volcanic provenance are described in the same fashion as the terrigenous sediments, noting the dominant composition of the volcanic grains where possible.

5) Special rock types — The definition and nomenclature of sediment and rock types not included in the system described above are left to the discretion of shipboard scientists with the recommendation that they adhere as closely as practical to conventional terminology.

In this category fall such rocks as:

Intrusive and extrusive igneous rocks;

Evaporites, halite, anhydrite, gypsum (as a rock), etc.;

Shallow water limestone (biostromal, biohermal, coquina, oolite, etc.);

Dolomite;

Gravels, conglomerates, breccias;

Metalliferous brown clays;

Concretions, barite, iron-manganese, phosphorite, pyrite, etc.;

Coal, asphalt, etc.;

and many others.

The mandatory graphic lithology column should be completed by shipboard staff with appropriate symbols for intervals containing special rock types. It is imperative that symbols and rock nomenclature be properly defined and described by shipboard staff.

Basement Description Conventions

Core Forms

Initial core description forms for igneous and metamorphic rocks are not the same as those used for sediments. The sediment barrel sheets are substantially those published in previous *Initial Reports*. Igneous rock representation on barrel sheets is too compressed to provide adequate information for potential sampling. Consequently, Visual Core Description forms, modified from those used on board ship, are used for more complete graphic representation. All shipboard data per 1.5-meter section of core are listed on the modified forms as well as summary hand-specimen and thin-section descriptions. The symbols and a number of format conventions for igneous rocks are presented on Figure 7.

Igneous and metamorphic rocks are split using a rock saw with a diamond blade into archive and working halves. The latter is described and sampled on board ship. On a typical igneous rock description form (Figure 8), the left column is a visual representation of the working half using the symbols of Figure 7. Two closely spaced horizontal lines in this column indicate the location of styrofoam spacers taped between basalt pieces inside the liner. Each piece is numbered sequentially from the top of each section, beginning with the number 1. Pieces are labeled on the rounded, not the sawed surface. Pieces which could be fitted together before splitting are given the same number, but are consecutively lettered, as 1A, 1B, 1C, etc. Spacers are placed between pieces with different number, but not between those with different letters and the same number. In general, addition of spacers represents a drilling gap (no recovery). However, in cores where recovery is high, it is impractical to use spacers. In these cases, drilling gaps are indicated only by a change in numbers. All pieces have orientation arrows pointing to the top of the section, both on archive and working halves, provided the original unsplit piece was cylindrical in the liner and of greater length than the diameter of the liner. Special procedures are used to ensure that orientation is preserved through every step of the sawing and labeling process. All pieces suitable for sampling requiring knowledge of top from bottom are indicated by upward-pointing arrows to the left of the piece numbers on the description forms. Since the pieces are rotated during drilling, it is not possible to sample for declination studies.

Samples are taken for various measurements on board ship. The type of measurement and approximate location are indicated in the column headed "Sample" using the following notation:

- X = X-ray fluorescence analysis
- M = magnetics measurements
- S = sonic velocity measurements
- T = thin section
- D = density measurements
- P = porosity measurements

Up to seven such visual representations can be included on a single igneous rock core description sheet (Figure 9), which includes a summary core description, and petrographic and analytical data.

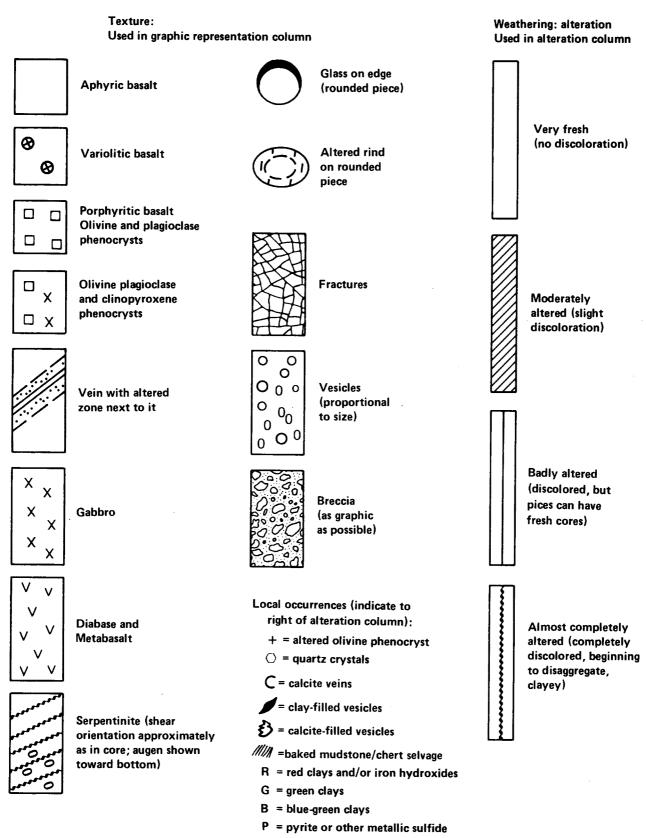
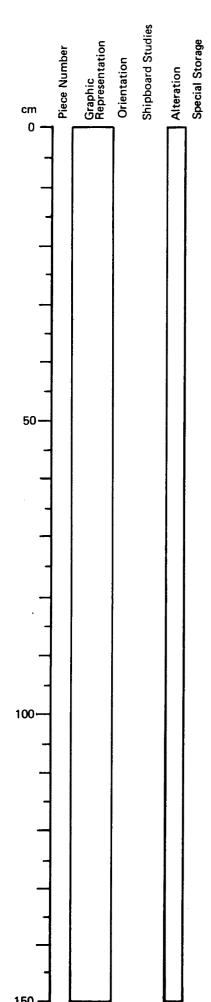


Figure 7. List of symbols for igneous rock description forms.



VISUAL CORE DESCRIPTION FOR IGNEOUS ROCKS

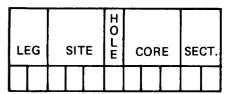


Figure 8. Typical igneous rock description form.

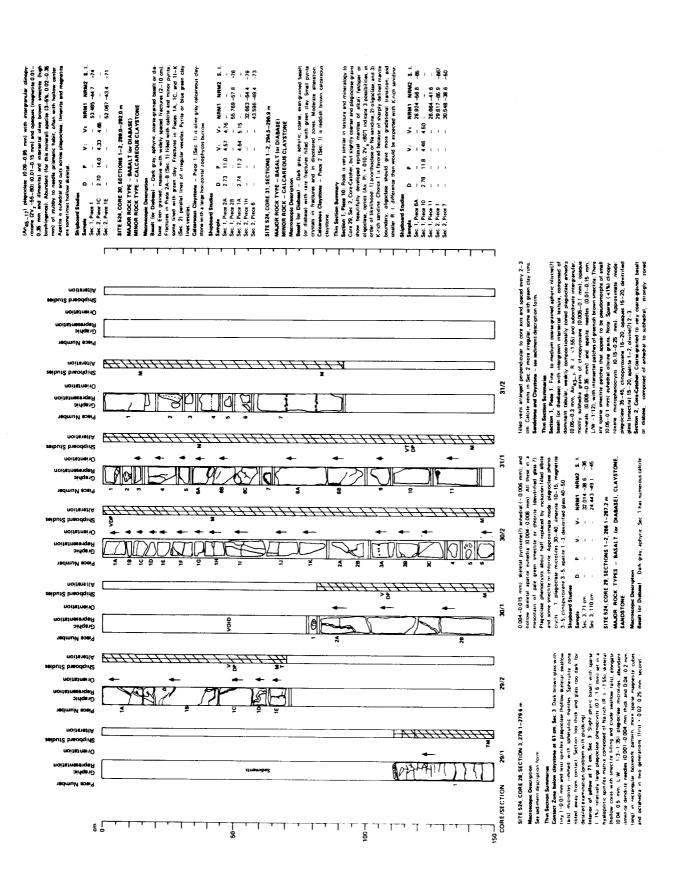


Figure 9. Igneous rock description sheet.

Igneous Rock Classification

Igneous rocks are classified mainly on the basis of mineralogy and texture. Thin-section work in general adds little new information to the hand-specimen classification.

Basalts are termed aphyric, sparsely phyric, moderately phyric, or phyric, depending on the proportion of phenocrysts visible with the binocular microscope (\sim x 12). The basalts are called aphyric if phenocrysts are absent. For practical purposes, this means that if one piece of basalt is found with a phenocryst or two in a section where all other pieces lack phenocrysts, and no other criteria such as grain size or texture distinguish this basalt from the others, then it is described as aphyric. A note on the rare phenocrysts is included in the general description, however. This approach enables us to restrict the number of lithologic units to those that appear to be clearly distinct.

Sparsely phyric basalts are those with 1–2% phenocrysts present in almost every piece of a given core or section. Clearly contiguous pieces without phenocrysts are included in this category, again with the lack of phenocrysts noted in the general description.

Moderately phyric basalts contain 2-10% phenocrysts. Aphyric basalts within a group of moderately phyric basalts are separately termed aphyric basalts.

Phyric basalts contain more than 10% phenocrysts. No separate designation is made for basalts with more than 20% phenocrysts; the proportion indicated in the core forms should be sufficient to guide the reader.

The basalts are further classified by phenocryst type, preceding the terms phyric, sparsely phyric, etc. For example, a plagioclase-olivine moderately phyric basalt contains 2-10% phenocrysts, most of them plagioclase, but with some olivine.

Other rock types which are less commonly recovered, such as gabbro, serpentinite, andesites, granite, or metamorphic rocks, are classified using standard references such as Williams, et al. (1954) or Moorhouse (1959).

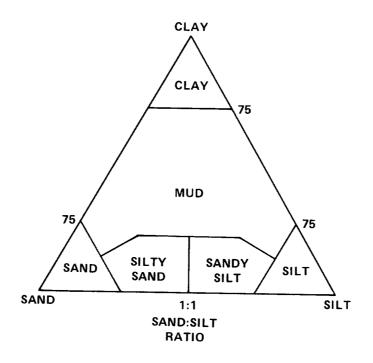
ADDITIONAL DATA TO LEG 96 EXPLANATORY NOTES

Cores collected at Holes 615A, 616B, 617A, and 624A were designated geotechnical cores. Cores from these holes were sectioned into 1.5 m-lengths, GRAPEd, left unsplit, stored vertically in the shipboard refrigerator, and transferred to Texas A & M University for shore-based studies by the Geotechnical Consortium. These sections are designated "GTC" on the core description sheets. Core Catchers from Holes 615A, 616B, and 617A were split and described according to standard DSDP procedures. Core Catchers from Hole 624A were left unsplit and included with the rest of the geotechnical cores.

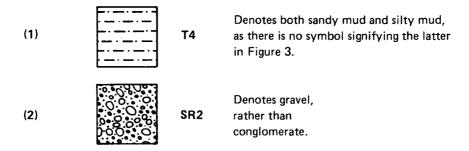
There was an abundance of reworked material recovered on Leg 96. Biostratigraphic samples that consisted of reworked assemblages as indicated as such on the core description sheets by circled abundance and preservation codes in the Fossil Character column. An example follows:

AG

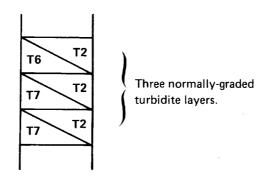
The Leg 96 shipboard scientists chose to define class boundaries for terrigenous sediments in a different manner than that shown in Figure 6. Terrigenous sediments were classified according to their texture; sand, silt, and clay percentages were estimated under a microscope and the data are shown with the smear slide data on the core description sheets. The class boundaries used during Leg 96 are shown in the diagram below.



Two symbols used in the Graphic Lithology column of the core description sheets are defined differently than that shown in Figure 3:



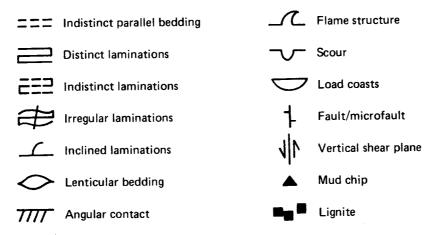
As much of the material recovered on Leg 96 consisted of normally-graded turbidites, the relative proportions of sand or silt and clay changed dramatically within a single turbidite layer. This change in grain size within each layer is diagrammatically shown in the Graphic Lithology column of the core description sheets as follows:



Portions of the Leg 96 cores that appeared brecciated due to drilling are labeled as such in the Drilling Disturbance column of the core description sheets as follows:



In addition to the standard sedimentary structure symbols shown in Figure 4, the following additional structure symbols are used in the Sediment Structure column of the core description sheets:



Designations for whole-round samples appear in the Sample column of the core description sheets. These designations are codes as follows:

IW = Interstitial water sample

OGP = Organic geochemistry sample

KB = Sample for geochemical studies by shipboard scientists

James Brooks and Mahlon C. Kennicutt

BRY = Sample for physical properties studies by shipboard scientist Bill Bryant and the Geotechnical Consortium

KOH = Paleontologic sample for shipboard scientists

GTC = Geotechnical Consortium sample

WHE = Sample for microbiological culturing and associated studies by shipboard scientist Jean Whelan

Core type is indicated as follows:

H = Hydraulic piston core

R = Rotary core

X = Extended core barrel core

W = Wash core

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SAMPLE DISTRIBUTION POLICY

Deep Sea Drilling Project/International Phase of Ocean Drilling

Distribution of Deep Sea Drilling samples for investigation will be undertaken in order to (1) provide supplementary data to support Glomar Challenger scientists in achieving the scientific objectives of their particular cruise, and in addition to serve as a mechanism for contributions to the Initial Reports; (2) provide individual investigators with materials to conduct detailed studies beyond the scope of the Initial Reports; and (3) provide the reference centers where paleontologic materials are stored with samples for reference and comparison purposes.

The National Science Foundation has established a Sample Distribution Panel to advise on the distribution of core materials. This panel is chosen in accordance with usual Foundation practices, in a manner that will assure advice in the various disciplines leading to a complete and adequate study of the cores and their contents. Funding for the proposed research must be secured separately by the investigator. It cannot be provided through the Deep Sea Drilling Project.

The Deep Sea Drilling Project's Curator is responsible for distributing the samples and controlling their quality, as well as preserving and conserving core material. He also is responsible for maintaining a record of all samples that have been distributed, shipboard and subsequent, indicating the recipient and the natures of the proposed investigation. This information is made available to all investigators of DSDP materials as well as to other interested researchers on request.

The distribution of samples is made directly from one of the two existing repositories, Lamont-Doherty Geological Observatory and Scripps Institution of Oceanography, by the Curator or his designated representative.

1. Distribution of Samples for Research Leading to Contributions to Initial Reports

Any investigator who wishes to contribute a paper to a given volume of the Initial Reports may write to the Chief Scientist, Deep Sea Drilling Project (A-031), Scripps Institution of Oceanography, University of California at San Diego, La Jolla, California 92093, U. S. A., requesting samples from a forthcoming cruise. Requests for a specific cruise should be received by the Chief Scientist TWO MONTHS in advance of the departure of the cruise in order to allow time for the review and consideration of all requests and to establish a suitable shipboard sampling program. The request should include a statement of the nature of the study proposed, size and approximate number of samples required to complete the study, and any particular sampling technique or equipment that might be required. The requests will be reviewed by the Chief Scientist of the Project and the cruise co-chief scientists; approval will be given in accordance with the scientific requirements of the cruise as determined by the appropriate JOIDES Advisory Panel(s). If approved, the requested samples will be taken, either by the shipboard party if the workload permits, or by the curatorial staff shortly following the return of the cores to the repository. Proposals must be of a scope to ensure that samples can be processed and a contribution completed in time for publication in the Initial Reports. Except for rare, specific instances involving ephemeral properties, sampling will not exceed one-quarter of the volume of core recovered, with no interval being depleted and one-half of all core being retained as an archive. Shipboard sampling shall not exceed approximately 100 igneous samples per investigator; in all cases co-chief scientists are requested to keep sampling to a minimum.

The co-chief scientists may elect to have special studies of selected core samples made by other investigators. In this event the names of these investigators and complete listings of all materials loaned or distributed must be forwarded, if possible, prior to the cruise or, as soon as possible following the cruise, to the Chief Scientist through the DSDP Staff Science Representative for that particular cruise. In such cases, all requirements of the Sample Distribution Policy shall also apply.

If a dispute arises or if a decision cannot be reached in the manner prescribed, the NSF Sample Distribution Panel will conduct the final arbitration.

Any publication of results other than in the *Initial Reports* within twelve (12) months of the completion of the cruise must be approved and authored by the whole shipboard party and, where appropriate, shore-based investigators. After twelve months, individual investigators may submit related papers for open publication provided they have submitted their contributions to the *Initial Reports*. Investigations not completed in time for inclusion in the *Initial Reports* for a specific cruise may not be published in other journals until final publication of that *Initial Reports* for which it was intended. Notice of submittal to other journals and a copy of the article should be sent to the DSDP Associate Chief Scientist, Science Services.

2. Distribution of Samples for Research Leading to Publication Other Than in *Initial Reports*

A. Researchers intending to request samples for studies beyond the scope of the Initial Reports should first obtain sample request forms from the Curator, Deep Sea Drilling Project (A-031), Scripps Institution of Oceanography, University of California at San Diego, La Jolla, California 92093, U. S. A. On the forms the researcher is requested to specify the quantities and intervals of the core required, make a clear statement of the proposed research, state time required to complete and submit results for publication, and specify the status of funding and the availability of equipment and space foreseen for the research.

In order to ensure that all requests for highly desirable but limited samples can be considered, approval of requests and distribution of samples will not be made prior to 2 months after publication of the *Initial Core Descriptions (I. C. D.). ICD's* are required to be published within 10 months following each cruise. The only exceptions to this policy will be for specific instances involving ephemeral properties. Requests for samples can be based on the *Initial Core Descriptions*, copies of which are on file at various institutions throughout the world. Copies of original core logs and data are kept on file at

DSDP and at the repository at Lamont-Doherty Geological Observatory, Palisades, New York. Requests for samples from researchers in industrial laboratories will be handled in the same manner as those from academic organizations, with the same obligation to publish results promptly.

- B. (1) The DSDP Curator is authorized to distribute samples up to 50 ml per meter of core. Requests for volumes of material in excess of this amount will be referred to the NSF Sample Distribution Panel for review and approval. Experience has shown that most investigations can be accomplished with 10 ml sized samples or less. All investigators are encouraged to be as judicious as possible with regard to sample size and, especially, frequency within any given core interval. The Curator will not automatically distribute any parts of the cores which appear to be in particularly high demand; requests for such parts will be referred to the Sample Distribution Panel for review. Requests for samples from thin layers or important stratigraphic boundaries will also require Panel review.
- (2) If investigators wish to study certain properties which may deteriorate prior to the normal availability of the samples, they may request that the normal waiting period not apply. All such requests must be reviewed by the curators and approved by the NSF Sample Distribution Panel.
- C. Samples will not be provided prior to assurance that funding for sample studies either exists or is not needed. However, neither formal approval of sample requests nor distribution of samples will be made until the appropriate time (Item A). If a sample request is dependent, either wholly or in part, on proposed funding, the Curator is prepared to provide to the organization to whom the funding proposal has been submitted any information on the availability (or potential availability) of samples that it may request.
- D. Investigators receiving samples are responsible for:
- (1) publishing significant results; however, contributions shall not be submitted for publication prior to 12 months following the termination of the appropriate leg;
- (2) acknowledging, in publications, that samples were supplied through the assistance of the U. S. National Science Foundation and others as appropriate;
- (3) submitting five (5) copies (for distribution to the Curator's file, the DSDP repositories, the Glomar Challenger's library, and the National Science Foundation) of all reprints of published results to the Curator, Deep Sea Drilling Project (A-012), Scripps Institution of Oceanography, University of California at San Diego, La Jolla, California 92093, U.S. A.;
- (4) returning, in good condition, the remainders of samples after termination of research, if requested by the Curator.
- E. Cores are made available at repositories for investigators to examine and to specify exact samples in such instances as may be necessary for the scientific purposes of the sampling, subject to the limitations of B (1 and 2) and D, with specific permission of the Curator or his delegate.
- F. Shipboard-produced smear slides of sediments and thin sections of indurated sediments and igneous and metamorphic rocks will be returned to the appropriate repository at the end of each cruise or at the publication of the *Initial Reports* for that cruise. These smear slides and thin sections will form a reference collection of the cores stored at each repository and may be viewed at the respective repositories as an aid in the selection of core samples.
- G. The Deep Sea Drilling Project routinely processes by computer most of the quantitative data presented in the *Initial Reports*. Space limitations in the *Initial Reports* preclude the detailed presentation of all such data. However, copies of the computer readout are available for those who wish the data for further analysis or as an aid in selecting samples. A charge will be made to recover expenses in excess of \$50.00 incurred in filling requests.

3. Other Records

Magnetics, seismic reflection, downhole logging, and bathymetric data collected by the *Glomar Challenger* will also be available for distribution at the same time samples become available.

Requests for data may be made to:

Associate Chief Scientist, Science Services Deep Sea Drilling Project (A-031) Scripps Institution of Oceanography University of California at San Diego La Jolla, California 92093

A charge will be made to recover the expenses in excess of \$50.00 in filling individual requests. If required, estimated charges can be furnished before the request is processed.

4. Reference Centers

As a separate and special category, samples will be distributed for the purpose of establishing up to five reference centers where paleontologic materials will be available for reference and comparison purposes. The first of these reference centers has been approved at Basel, Switzerland.

Revised 8/1/80

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Deep Sea Drilling Project

The accompanying informal report is a summary of the scientific results of Leg 96 of the Deep Sea Drilling Project, prepared from the shipboard files by the scientists who participated in this cruise. The material contained herein is provileged proprietary information and cannot be used for publication or quotation.

This summary was assembled under time restrictions and is not to be considered a formal publication which incorporates final works for conclusions of the scientists.

The Deep Sea Drilling Project, undertaken on the advice of JOIDES, is managed by Scripps Institution of Oceanography under contract from the National Science Foundation.

Yves Lancelot Chief Scientist

SUMMARY OF DEEP SEA DRILLING PROJECT - LEG 96

The scientific party aboard D/V GLOMAR CHALLENGER for Leg 96 of the Deep Sea Drilling Project, International Phase of Ocean Drilling, consisted of:

Arnold H. Bouma (Gulf Research & Development Co., Houston, Texas)
Co-Chief Scientist

James M. Coleman (Louisiana State University, Baton Rouge, Louisiana)
Co-Chief Scientist

James Brooks (Texas A&M University, College Station, Texas)

William Bryant (Texas A&M University, College Station, Texas)

Richard Constans (Chevron U.S.A. Inc., New Orleans, Louisiana)

Michel Cremer (University de Bordeaux, Talence, France)

Laurence I. Droz (Laboratoire de Geodynamique Sous-Marine, Villefranche-Sur-Mer, France)

Toshio Ishizuka (University of Tokyo, Tokyo, Japan)

Mahlon C. Kennicutt (Texas A&M University, College Station, Texas)

Barry Kohl (Chevron U.S.A. Inc., New Orleans, Louisiana)

William R. Normark (U.S. Geological Survey, Menlo Park, California)

Suzanne O'Connell (Lamont-Doherty Geological Observatory, Palisades, New York)

Mary Parker (Florida State University, Tallahassee, Florida)

Kevin Pickering (University of London, London, England)

Claudia Schroeder (Dalhousie University, Halifax, Nova Scotia)

Charles E. Stelting (Gulf Research & Development Co., Houston, Texas)

Dorrik Stow (Edinburgh University, Edinburgh, Scotland)

William E. Sweet (Mineral Management Service, Metairie, Louisiana)

Andreas Wetzel (Geologisches Institut, Tubingen, Federal Republic of Germany)

Jean K. Whelan (Woods Hole Oceanographic Institution, Woods Hole, Massachusetts)

Audrey Wright (DSDP, Scripps Institution of Oceanography, La Jolla, California)

Attached is a brief summary of the scientific activities of Leg 96.

INTRODUCTION

DSDP-IPOD Leg 96 investigated a large deep-sea fan--the Mississippi Fan, Gulf of Mexico--and two types of intraslope basins on the continental slope off Louisiana. This was the first leg of the Project dedicated to sedimentological studies of a specific type of deposit.

Glomar Challenger left Fort Lauderdale, Florida on 29 September, and arrived in Mobile, Alabama on 8 November, 1983. Several sites and alternate sites had been approved; these sites are described in the Leg 96 Cruise Prospectus. A total of 11 sites was drilled of which 9 were located on the Mississippi Fan and one each in Orca and Pigmy intraslope basins (Fig. 1).

One of the most dramatic of deep-sea accumulations typically occurs seaward of large deltas and at the mouths of submarine canyons. In very short periods of geologic time large volumes of sediment are transported downslope from shelf environments, often via submarine canyons, onto the lower continental slope and rise as well as the abyssal plains, resulting in a thick sedimentary accumulation known as a deep-sea fan. Research on modern fans has thus far been restricted to geophysical and gravity and piston coring studies that cannot really address transport-depositional processes, distribution of sedimentary facies, vertical sedimentary sequences, time frames, and geochemical and geotechnical characteristics of deep-sea fans. Comparisons with ancient turbidite sequences have been partially

unsatisfactory because of differences in scale of observations and differences in data collecting techniques. Time equivalent deposition of sands and large volumes of muds and clays are especially difficult to document in modern environments when accumulation rates are high. Such relationships can seldom be determined in ancient deposits, which results in erroneous interpretations. Drilling of a modern deep-sea fan on Leg 96 was a very constructive approach in attempting to better understand ancient equivalents.

Drilling in the intraslope basins, formed between active salt and shale diapirs, provided insight into another mode of deep water sedimentation not yet recognized in the stratigraphic column. It was hoped that drilling results in these basins would determine if their depositional processes have any similarity to those on deep-sea fans.

MISSISSIPPI FAN

The Mississippi Fan is a semiconical, slope-rise depositional system of Quaternary deposits extending about 600 km from near the present Mississippi River delta onto the Sigsbee and Florida Abyssal Plains. It covers an area in excess of 290,000 km² and has a volume greater than 300,000 km³. The thickest part of this sedimentary sequence (4.5 km) can be found in a water depth of about 2500 m at the base of the continental slope.

Seismic studies reveal that eight acoustic reflectors have

fan-wide occurrence and define at least seven depositional units. Structure and isopach mapping of these reflectors shows that the individual units or fan lobes are not stacked vertically, but rather that a shifting of both succeeding fan lobes and their submarine canyons takes place with time (Coleman, Bouma, Prior and Adams, in press). In addition, these fan lobes show a gradual progradation into deeper water with time. Each fan lobe has a convex upward cross section that forces the next one to be developed adjacent to it. The youngest fan lobe was the main study target of Leg 96, although we were able to drill into or through the next older one at a number of sites and thus provide more data on the time-stratigraphic framework of the Mississippi Fan.

The youngest fan lobe can be divided into four major zones, including the submarine canyon. The structure and isopach maps indicate that such divisions are characteristic of the underlying fan lobes as well, although the finer details are obscure because of lack of seismic resolution. The four major zones are:

- 1. An upslope erosional submarine canyon: Mississippi Canyon;
- 2. An upper fan lobe area at the base of slope, characterized by a large, nearly filled, erosional channel;
- 3. A middle fan lobe area which is aggradational in character, convex in cross section, and has a sinuous channel running along its apex;
- 4. A lower fan lobe area which is an aggradational zone with one recently active channel and several abandoned ones.

The modern fan lobe of the Mississippi Fan contains a very characteristic channel-levee complex. On the upper fan area this complex consists of a large scour-and-fill structure that is nearly filled. The channel in the upper (or northern) half of the area has a slightly irregular course and frequently changes in cross sectional shape because of the controlling influence of large diapirs. Further down the upper fan lobe the channel becomes slightly sinuous, has well-developed levees, and contains a recent central channel.

At the base of slope where the aggradational middle fan starts we see the central channel becoming very sinuous with well-developed levees and overbank areas. The size of the channel, as well as its sinuosity, decreases downfan; while the channel has a width of about 3 km on the upper part of the mid-fan and a modern depth (topographic relief) of 40-50 m, it is about 300-500 m wide and 10-25 m deep on the the lower fan at a water depth of 3100 m. Although difficult to distinguish on side-scan sonar, we see minor channel bifurcations near the channel terminations on the lower fan. Sonographs also reveal images paralleling the recent channel that are tentatively interpreted as abandoned channels. These images suggest that the channel shifts position frequently near the terminus of the fan-wide channel complex.

Each of the seven fan lobes identified seismically has a maximum thickness ranging from 300 to 600 m. The youngest lobe is about 400 m thick in the mid fan area. The bottom of the channel fill in the upper fan lobe is irregular in shape because of width variations but

shows an average depth of 400-700 m below the mud line. This same channel bottom is about 300 m below the mud line on the mid fan, and about 150 m below the mud line in the zone where the middle fan changes into the lower fan. In the outer part of the lower fan lobe parallel acoustical reflectors obscure channel fills. Very likely, they are minor and the small channels are short lived.

Four sites were drilled in the lower fan area: Site 614 to a depth of 150 m sub-bottom, Site 615 to 523 m sub-bottom, Site 623 to a depth of 191 m sub-bottom and Site 624 to a depth of 200 m sub-bottom (Fig. 1). An excellent set of well logs was collected at Sites 615, 623 and 624 providing stratigraphic information for many of the poorly-recovered sections, especially those in the thicker sand intervals.

A total of 5 sites was occupied on the mid-fan area, in an attempt to investigate all the significant morphologic and seismic characteristics of that region. Site 616 (penetration 371 m) proved to be located on a different fan lobe rather than on the outer flank of the modern fan lobe (Fig. 1). In addition, the upper section recovered at Site 616 has been interpreted as a large slump. For this reason, this site is discussed in the lower fan lobe section below. Sites 617, 620, 621, and 622 were all located along a cross sectional transect over the central channel area, including levees and overbank deposits (Fig. 1). Site 617 (penetration 191.2 m) was placed on the inner side of a meander bend in a swale between two ridges. Sites 621 (penetration 214.3 m) and 622 (penetration 208.0 m) were both located

within the central channel near the presently deepest part or thalweg and near the inner bend, respectively. Site 620 (penetration 422.7 m) was located on the northeastern flank or overbank area approximately 18 km from the channel. Core recovery was generally good to a depth of about 60 m, below which both the Hydraulic Piston Corer and the Advanced Piston Corer were unable to complete a full 9.5-m stroke. The Rotary Corer was used at Site 620 with poor results; although this was anticipated, it seemed the only tool capable of drilling deeper in stiff muds with sand interbeds. Interpretation of the lithostratigraphy in the unrecovered intervals was accomplished at Sites 620, 621 and 622 with a suite of well logs.

The Safety Panels did not provide clearance to core through the channel fill on the upper fan because of the potential problem of free gas or hydrocarbons. This unfortunately makes a complete understanding of the total fan somewhat tenuous.

Middle Fan Lobe Area

Sites were drilled on the mid-fan area in three different morphologic areas: Sites 621 and 622 in the central channel, Site 617 to the southwest in a swale near the inner bend of the local channel meander, and Site 620 in overbank deposits about 18 km northeast from the channel.

The central channel on the apex of the mid-fan shows good sinuosity in the drilled area, as initially reported by Garrison, Kenyon and Bouma (1982) based on GLORIA data and later recorded by Sea MARC I

from Lamont-Doherty Geological Observatory during the pre-cruise survey and partially detailed by Racal-Decca with their deep-towed sidescan sonar. The channel itself is about 3 km wide, shows bedforms on the bottom, and is flanked by a series of ridges and swales. The topographic and morphological characteristics suggest that the central channel has a migratory nature; seismic records are not of sufficient quality to confirm or deny this interpretation. Though we expected that documenting the abundance of sand and silt at the different midfan sites would help to unravel these problems, results at Sites 617 and 620 proved somewhat inconclusive; the findings at Sites 621 and 622 provided the answer.

Site 617 was cored to a depth of 191.2 m with the Advanced Piston Corer. Recovery was about 86%. The main objectives at this site were to study the characteristics of the sediments infilling the swales and of the underlying levee deposits, and to obtain information about the vertical sequence of sediments in the attempt at determining whether the sinuous channel has displayed meandering tendencies during its development.

The entire cored section consists of levee-overbank deposits, characterized by thin fine-grained turbidites (Fig. 2). The vertical sequence initially coarsens upward and then fines upward to the base of the thin overlying Holocene unit. The Holocene (Ericson Zone Z; Ericson and Wollin, 1968) consists of a 25-cm thick marly foraminiferal ooze at the top; an accumulation rate of about 67 cm/1000 yr. This grades downward into a section of thin-bedded mud turbidites,

muds with silt laminae and thin silt beds, and zones of "homogeneous" muds. Seismic correlation of Ericson Zone X to this site gives an accumulation rate of 1190 cm/1000 yr., which is much higher than at any of the sites located further down the fan (Fig. 3). This extremely high sedimentation adjacent to the channel is surprising considering the paucity of sand recovered.

Site 620 is located about 18.3 km north-northeast from the central channel. It is just inside the area reportedly covered by a large slump (see Site 616). This site was selected as being far enough from the channel to ensure a more or less constant deposition of overbank sediments without significant erosional unconformities. Thin-bedded turbidites were expected, and the proposed site was expected to penetrate through the upper two fan lobes and therefore provide good data on the overall deep-sea fan framework.

Total penetration at Site 620 was 422.7 m. Because the entire section was rotary cored in an attempt to reach the proposed total depth (770 m sub-bottom) without getting the drill pipe stuck, the quality of these unconsolidated mud and clay cores was very poor. Total recovery was only 47%, but successful logging provided lithostratigraphic information for the poorly recovered intervals.

The upper 20 cm of the Holocene (Ericson Zone Z) consists of a marly foraminiferal ooze. It has a computed accumulation rate of 25 cm/1000 yr. This is underlain by terrigenous clays and muds with varying amounts of silt and fine sand intercalations (Fig. 2). About 80% of the cored section shows no discernible sedimentary structures.

Its texture is about 20% silt and 80% clay. The gamma log supports these visual observations. Two sequences were observed, both showing a slight coarsening upward. Both belong to Ericson Zone Y and have a sedimentation rate of 1175 cm/1000 yr. (Fig. 3). The deposits are interpreted as fine-grained turbidites and hemipelagic sediments. They must have originated from the channel as overflow during the passing of major turbidity currents or other transport mechanisms.

Site 621 (214.8 m penetration) was located in the channel near the deepest part of a meander. The objectives of this site were to analyze the type of sediments that constitute the channel fill, and to obtain insight into the major transport mechanisms that move large quantities of sediment from shelf depths to the aggradational middle and lower fans in a very short geological time frame. We expected to find either large amounts of sand or, in the case of a conduit, major amounts of clays forming a passive fill.

The sediment section at Site 621 consists of a thin Holocene marly foraminiferal ooze, underlain by muds with some thin sandy and silty turbidites that gradually changed into "homogeneous" muds with increasing silt contents downhole (Fig. 2). With the exception of a few silt and sand beds and occasional color bands, it was a very monotonous section. At a depth of about 160 m, the gradual downhole coarsening trend became obvious because of an increase in the abundance of thin-bedded turbidites. At a depth of 195 m, a pebbly mudstone was encountered with pebbles ranging in size from a few millimeters to 5 cm (long axis). The petrology is variable, ranging

from mainly sedimentary to some metamorphics and igneous rocks. A few large shell fragments were observed. This unit was underlain by a thin interval of clayey muds and muds with some thin-bedded turbidites and silt laminae. Part of it showed a well-developed "horizontal" fold. The last core at Site 621 (211.8-214.8 m sub-bottom) contains a sand underlain by a pebbly-sandy mud underlain by gravel (Fig. 4). This clean gravel obviously was washed during coring and has to be a sandy gravel or gravelly sand. Both the pebbly mud and the gravel show up as high-amplitude reflectors on seismic records. The entire cored section falls within Ericson Zone Y. The average sedimentation rate is 1111 cm/1000 yr. (Fig. 3), although most of the sediments probably accumulated from discrete instantaneous geologic events.

The foraminifers in the channel fill sediments were mostly reworked and derived from neritic environments, similar to those found on the lower fan. The sediments at the overbank area (Site 620), however, contained a sparse population of reworked Cretaceous planktonics and in situ benthics. This means both that most foraminifera are transported as sand-sized clasts and do not overflow the channel. Certain bathyal benthic species can live in the overbank environment in spite of the high accumulation rate.

Drilling results at Site 621 clearly demonstrated the fact that the channel was a deep conduit through which gravel, sand and most silt moved by either turbidity current action and/or debris flows.

Some or all of these transport mechanisms must have included density flows thicker than the channel depth to account for the large amount

of overbank material; transport of nearly all of the coarser material was confined inside the conduit. Based on the coring and faunal determinations, the minimum depth of the channel may have been 110-160 m.

Seismic records show an upward displacement of the channel floor in steps coupled with discrete lateral movements. This means that the channel is migratory in nature, and that its fill is mainly a lag overlain by a hemipelagic fill. Interpretation of the many ridges and swales seen on high-resolution seismic records and side-scan sonar now becomes possible: each time the channel became an active conduit it built up its floor and constructed levees. The next pulse caused a lateral move (migration), and the same process repeated itself. New levees were formed and the tops of older ones were eroded. The overall process is quite similar to a meandering fluvial system. The bedforms seen on the EDO side scan can only be interpreted as transverse sand waves constructed in the upper foraminiferal ooze. Studies other than coring or drilling will have to be used to further document these features.

Site 622 would ideally have been located near the inner bend of the same meander belt on which Site 621 was located. Because proximity to both the 13.5 and 16 kHz beacons prevented dropping of a third beacon at the desired location, the site had to be moved to a comparable morphologic position in the next meander to the east. The objectives of this site were to determine if any lateral sediment distribution patterns were present that appear similar to meandering

fluvial system. The hole was drilled to a depth of 208 m sub-bottom. The overlying Holocene marly foraminiferal ooze was 25 cm thick, which may be compatible to that at Site 621, if the influence of coring the interface is taken into account. The sediment section at Site 622 is very similar in overall aspect to that at Site 621. The pebbly mudstone was drilled at a depth of 199 m sub-bottom. Overlying is a fining-upward sequence of which the lower sands are much thicker (65 vs. 34 m) than at the thalweg site (Fig. 2).

Lower Fan Lobe Area

Four sites (Sites 614, 615, 623, and 624; Fig. 1) were occupied on the lower fan to identify the sediment characteristics and modes of sediment transport within the youngest fan lobe and to compare those with the older, underlying fan lobes. Other main objectives were to determine the biostratigraphic sequence and age relationships of several succeeding fan lobes, to establish accumulation rates for the uppermost fan lobes, and to identify the sediment provenance. Successful well logs were run at Sites 615, 623 and 624 to obtain more complete lithostratigraphic information than was possible in the poorly recovered intervals.

Site 614 (penetration 150.3 m) was located near the terminal end of the modern lower fan channels and their interfingering depositional lobes. Extremely stiff clays prevented good core recovery, while sands tended to be washed out. Poor core recovery prohibited accurate determinations of sand/clay ratios, but our estimates suggest that the

cored section contains 70% net sand. The recovered sediments were generally barren of planktonic foraminifers, but contained sparse benthics typical of inner and middle neritic environments. A thin Holocene cover, about 1.5 m thick, has a thin marly foraminiferal ooze at the top. The remainder of the cored section falls within Ericson's Zone Y (late Wisconsin glacial stage) and consists mainly of turbidites (Fig. 2).

Site 615 was drilled in the same general area, 21 km northeast of Site 614. It was located on the western levee of the central channel. The channel at this location is only about 400 m wide and 10 m deep. Total penetration at Site 615 was 523.2 m using a combination of the Advanced Piston Corer and the Extended Core Barrel. Three fan lobes and the top of a fourth one were cored. The sediments were dominantly graded muds containing only displaced fauna (Fig. 2). Planktonic as well as deep-water benthic fauna are very rare, implying a nearly continuous deposition of sands and clays during the late Wisconsin glacial stage. Recovered faunal assemblages indicate that most the sediments were derived from inner and middle neritic environments. As at Site 614, the major mode of sediment transport was by turbidity currents. Well logs from Site 615 show that the youngest fan lobe (199 m thick) contains a total of 82 m net sand (41%). A total of 184 m (65%) of the underlying, 267 m thick fan lobe is net sand. Both fan lobes fall within the Ericson Zone Y and have average accumulation rates of 646 cm/1000 yr. (Fig. 3). The fan lobe, or part of a fan lobe, that underlies the upper two consists of 29 m nannofossil ooze

(Ericson Zone X, late Wisconsin interstadial). That lobe shows grading upsection from a basal zone of thin breccia to a nannofossil foraminiferal ooze to a nannofossil ooze. It is interpreted as a debris flow deposit that likely originated near the De Soto Canyon area; the recovered fauna indicates a shallow carbonate platform origin including pinnacle reef environment. The ooze unit has an average accumulation rate of 75 cm/1000 yr., although it may have been one instantaneous geologic event. The lobe bottomed in Ericson Zone W (early Wisconsin glacial) muds with shallow water origin. The well logs clearly demonstrated that the nonrecovered core intervals were sandier than estimated from the recovered cores (core estimate is 15.6% while gamma log estimate is 59.6%).

Neither Site 614 nor 615 showed any gas except for traces of methane in the calcareous debris flow deposit at Site 615.

Sites 623 and 624 were located 55 km north-northwest of Site 615 in the transitional area between the middle and lower fan areas, where seismic reflection profiles show a buried channel. The main objective of these sites was to core and log this zone where the influence of the channel on sand and silt transport starts to decrease before "fanning out" in lower fan depositional lobes. One hole (Site 623) was drilled through the edge of the buried channel (total depth 191 m below sub-bottom) and one hole (Site 624) 4.8 km away to study levee and overbank deposits in this part of the modern fan lobe (total depth 200 m sub-bottom). Both sites were logged successfully; a duplicate hole was taken at Site 624 in the levee and overbank deposits and

recovered cores were reserved for shore based geotechnical studies.

Both Sites 623 and 624 contain similar lithologic sections, although the sediments at Site 624 are slightly finer grained. The sediment cores and the well logs suggest one indistinct fining-upward sequence, although this sequence could also be divided into many indistinct fining-upward (channel deposits), coarsening-upward (overbank deposits), and saw-tooth patterns (levee deposits). Without further analyses, boundaries are insufficiently clear to present a final interpretation.

Cores and well logs collected at Sites 623 and 624, together with the acoustic patterns of slightly irregular reflectors (rather than good channel cuts or distinct parallel reflectors), strongly suggest that the channel maintains its position for only a short time, does not significantly meander, and frequently shifts to a new position.

Site 616 (total depth 371.0 m sub-bottom) was initially thought to be located on the outer flank of the middle fan lobe. There were two main objectives for drilling this site: first, the upper 100 to 110 m at this location had been interpreted by Walker and Massingill (1970) as a wide-spread slump based on USNS Kane 3.5 kHz records; it was hoped that drilling this site would successfully test this interpretation. Second, we hoped to investigate the sedimentologic, paleontologic, geochemical and geotechnical properties of the flank deposits and to locate the boundary between the modern fan lobe flank and the underlying lobe. The drill pipe became stuck at 371 m sub-bottom and had to be severed at the lowermost joint of the 5½ in.

drilling pipe. Although the entire cored section was much finer grained than observed at the lower fan sites, it subsequently became obvious that the results did not agree with those from other sites drilled on the mid-fan. Reexamination of seismic records indicated a series of acoustical zones that offlap onto a deeper reflector at 445 m sub-bottom and thin out toward the north and east (Fig. 5). Those offlapping units are present at Site 620 but not at Site 617. We therefore conclude that we drilled a different fan lobe at Site 616 than at all other sites.

The upper 100 to 105 m drilled at Site 616 consists of a finegrained mud with silt and fine sand intercalations that display steep dips (up to 65°) in discrete zones separated by thin units of highly disturbed material (Fig. 2). This sequence obviously resulted from emplacement by mass-movement processes. The source of the sediment is unknown because the foraminiferal assemblages were poorly developed. Our current interpretation is that this upper zone represents a number of slides. Underlying these slides we penetrated two fan lobes (Fig. 2). The uppermost lobe is approximately 88 m thick with a total of $33.8 \ \mathrm{m}$ of sand (38.5%) and represents an upward-fining sequence. The lower lobe was only partially cored. It appears to display a coarsening-upward sequence with a minimum of 7% net sand. Both lobes fall in Ericson's Zone Y. These fan lobes have a minimum accumulation rate of 373 cm/1000 yr., excluding the overlying slide deposits (Fig. 3). Based on seismic correlations of Ericson's Zone X the accumulation rate could be as high as 563 cm/1000 yr. Post cruise geophysical

studies, especially of the recent data collected by the University of Texas, may enable us to place this site in its proper prospective.

Important Shipboard Observations and Conclusions, Mississippi Fan

- 1. Seismic analyses indicate that the Mississippi Fan is built by a number of elongate fan lobes that are not stacked vertically, but switch laterally and prograde basinward.
 - Each fan lobe is basically a channel-levee-overbank system.
- 3. Each fan lobe can be divided into a canyon, an upper fan lobe, a middle fan lobe, and an outer fan lobe.
- 4. Canyon: Mississippi Canyon is an erosional feature formed at or near the shelf break as a result of slope failure followed by retrogressive slumping.
- 5. The upper fan lobe is characterized by a large erosive channel that is nearly filled. The northern part is confined between diapirs. The southern part is slightly sinuous, has massive levees, and has a central channel incised in its fill.
- 6. The middle fan lobe is convex upward in cross section, is about 400 m thick, 150 km wide, and has a 3-4 km wide sinuous channel at its apex. This channel is nearly filled. The dimensions and sinuosity of the channel decrease down fan.
- 7. The lower fan lobe is an aggradational area where the channel becomes small and shallow, has levees, and may bifurcate before it terminates. Several, slightly parallel, abandoned channels are

located nearby, suggesting a short active life followed by abandonment. Channel terminations not only jump laterally but likely also back and forth with an overall progradation. At the end of a channel, one (or more?) lenticular or oblong depositional lobes are deposited.

- 8. A first estimate on amounts of clay, silt, sand, and gravel in the Mississippi Fan suggests that the source of this material was very high in clay content.
- 9. The channel on the upper and mid-fans has acted as a conduit for transport of sand and finer sediment to the lower fan. Volume calculations of how much was left in the channel versus how much was deposited outside the channel and on the lower fan will show if this is really a sand-efficient system.
- 10. The upper and middle fan channel is filled with coarsegrained material retained during transport. The channel fill accumulates by lateral migration and vertical aggradation. This coarse-grained sediment is overlain by a more passive fill consisting mainly of fine-grained sediments.
- depth to prevent turbidity currents from carrying much coarse material at levels higher than its levees. However, most of the turbidity currents must have been thicker than the channel depth to allow large quantities of fine-grained material to flow over the levees and to build the overbank deposits. Based on seismic, coring, and faunal determinations, the minimum depth of the channel may have been 110 to 160 m.

- 12. The gravel found in the mid-fan channel must be time equivalent to sands in the lower fan.
- 13. The channel in the mid-fan is migratory. Each time it moves upward and lateral it builds levees. Several rows of levees support the migratory nature.
- 14. The channel on the lower fan seems to have shifted its position frequently rather than being stable or migratory. The sediments in that area show alternations of indistict fining-upward (channel deposits), coarsening-upward (overbank deposits), and saw-tooth patterns (levee deposits).
- 15. Nearly all the sections cored fall in the Ericson Zone Y (late Wisconsin glacial). Tentative average accumulation rates on non-decompacted sediments show rates ranging from about 2 m/1000 yr. (middle fan) to 6 to 7 m/1000 yr. (lower fan). This necessitates nearly continuous sedimentation in a geologic sense.
- 16. Fauna is very sparse. Displaced Cretaceous foraminifera and nannofossils are not uncommon. Planktonic foraminifers are rare in the Y zone. The displaced benthic species indicate a neritic origin. Mid-fan Site 620 (overbank) is the exception, containing bathyal benthics, many radiolarians and few planktonics. Consequently displaced benthic species are mainly transported inside the channel (similar to silt and sand grains), and only a few spill over onto the overbank areas.
- 17. During Ericson's Y zone two fan lobes have been deposited that are separated by a weak seismic reflector but sedimentologically

could be separated into two major vertical sequences.

- 18. Local and maybe long distance mass movements are not uncommon.
- 19. All cored sediments (clays) are underconsolidated. At Site 620, overpressuring starts at a depth of 390 m where a pressure equal to lithostatic pressure is present.
- 20. Although organic matter is present, the amount seems to be low. This may explain why biogenic methane was scarce at all the sites drilled.

INTRASLOPE BASINS

The continental slope off Louisiana and east Texas is characterized by a large-scale hummocky topography that is caused by underlying diapirs. Most of these diapirs are assumed to consist of salt of Louann age (Middle and Late Jurassic) and to be overlain by Tertiary shales (Martin and Bouma, 1978; Martin, 1978). Locally the salt may outcrop or be very near the water/sediment interface. Typically, no two adjacent diapirs are of the same size or shape (Martin, 1980) or effect the overlying sediments in the same way (Bouma, 1983).

The depressions between the diapirs--called intraslope basins--also vary in size, depth, and shape. The utilization of seismic stratigraphy, aided by the collection of piston and gravity cores,

has provided a tentative classification of these intraslope basins into three major types: (1) blocked-canyon intraslope basins, (2) interdomal basins, and (3) collapse basins.

A blocked-canyon intraslope basin is formed either by blockage of the thalweg of a submarine canyon or upper fan valley caused by upward-moving diapirs or is part of a series of intraslope basins that were subjected to bottom transport of sediment that originated from the same shallow-water source. The sediments in the axis of such a basin contain coarse material that gradually changes laterally into clays where the layer onlaps onto the sides of the diapirs. bottom contact of the coarse material often forms a low-angle unconformity with the underlying sediments. The coarse material or "sands" likely are overlain by muds of shallow-water origin; these can be topped by hemipelagic and pelagic deposits. The coarser material can be deposited either by turbidity currents or by debris flows, or the interval can be partly or completely composed of slump material. Acoustically, the coarse-grained interval appears either transparent, semitransparent, or a combination of both with scattered hyperbolics. The overlying muds likely are of turbidity current origin; acoustically they form discontinuous, more or less parallel, reflectors. The upper part of the sequence, the pelagic and hemipelagic sediments, is represented acoustically as thin, parallel, continuous reflectors.

This vertical acoustical sequence is also visible in a lateral direction, suggesting a lateral fining of the sediment. The seismic sequence can be incomplete, and no pattern has been detected in

relative thicknesses of the three intervals. Present data suggest that each complete sequence does not exceed 0.25 s in thickness; often they are much thinner.

Some similarity in seismic sequence can be seen between this type of intraslope basin and the Mississippi Fan, specifically in the upper fan (Bouma and Garrison, 1979; Bouma, 1981, 1983; Bouma, et al., 1981). Well-published examples are Gyre Basin and Pigmy Basin; both show the acoustical sequences well.

The second type of intraslope basin—an interdomal basin—forms when a group of upward—moving diapirs coalesce, thereby surrounding a depression with a wall and eliminating any possibility of coarser—grained sediments entering that depression by means of bottom transport. As a result only hemipelagic and pelagic sediment can accumulate.

Orca Basin is the only known example of this second category of intraslope basins. This basin is exceptional in that it contains a hypersaline, anoxic layer of bottom water about 200 m thick (Trabant and Presley, 1978). Seismically one observes salt outcropping on multichannel records on the northeast side of the basin (Bouma, 1983). Mini sparker and air gun records do not show sub-bottom reflectors that may indicate either the thickness of the anoxic bottom sediments or the contact with underlying, older deposits.

The third type of intraslope basin--collapse basins--are small, irregularly shaped depressions commonly found on diapiric tops. A graben structure can often be observed. Collapse basins are the

smallest of the three types of intraslope basins. They are either formed by tensional collapse of the overburden or result from vertical collapse because of solution of salt from the top of the diapir (Martin and Bouma, 1978; Bouma, 1983). The normally flat or slightly upward bulging bottom is located above the surrounding seafloor and separated from it by a surrounding rim. The sediments are typically hemipelagic and pelagic. Acoustic profiles over these basins show thin, parallel reflectors, often disturbed by growth faults and normal faults. Studied examples are Carancahua and East Breaks Basins (Bouma, et al., 1981).

The main objective of drilling one site in each of the two most important types of intraslope basins was to obtain a complete upper Pleistocene stratigraphic record. Because of the unique anoxic conditions in Orca Basin, we wanted to establish the organic and inorganic characteristics of the anoxic and the underlying oxic sediments, and to establish the source of the brine. It was expected that biostratigraphic resolution might be good enough to provide insight into the timing of slope diapiric activities. A final objective at Pigmy Basin was to correlate the observed acoustic sequence with lithological types, sea level variations, climatic zones, and sediment processes.

Site 618 was located near the center of the northern subbasin in Orca Basin (Fig. 1). Drilling was terminated at 92.5 m because of the poor faunal content in the primarily displaced sediment. Core recovery was excellent to a depth of 62.5 m; below that, average recovery dropped less than 50%. The near-surface sediments were gray

rather than black as had been predicted. From 0 to 16 m the sediments were a very uniform clay, displayed an abundance of gas-escape structures, and contained an abundance of reworked benthic foraminifera. This unit was interpreted as a local Holocene slide.

Underneath this slide we cored a 1.5 m zone of dark black anoxic sediments. Downhole the sediments again became a gray clay, and contained occasional thin interbedded dark black clays. The deepest black layer encountered occurred at a sub-bottom depth of 41 m; the remainder of the cored sequence consisted predominantly of gray clays (Fig. 2).

Because of the abundance of gas expansion cracks, few sedimentary structures could be observed and sampling for paleomagnetic determinations could not be done. The sediments contained mixed planktonic, dominantly displaced, foraminiferal assemblages. Interstitial water analyses showed a rapid decrease in salinity from about 270 ppt at the surface to about 45 ppt at a depth of 30 m below which it stayed about constant. Very small, white, crystalline gas hydrates were found in the upper cores.

The Holocene sediment accumulation at Site 618 is computed to be 158.3 cm/1000 yr. (Ericson Zone Z); a minimum accumulation rate of 83.6 cm/1000 yr. was computed for the underlying drilled section belonging to the Ericson Zone Y (Fig. 3).

Site 619 (penetration 208.7 m) is located in Pigmy Basin (Fig. 1). The basin is northeast-southwest trending, has a flat floor at a water depth of about 2260 m and steep sloping walls formed by the

adjacent diapirs. The walls rise to about 700 m above the basin floor.

The continuously cored section consists of muds and clays containing an abundant benthic and planktonic fauna (Fig. 2). The hemipelagic muds contain only a minor amount of thin (coarse) sandy-silty turbidites and do not show any significant influence of mass movement. The absence of gas and the abundance of foraminifera made this site ideal for a detailed upper Pleistocene stratigraphy; closely-spaced samples for shore-based biostratigraphic, paleomagnetic, and oxygen isotope stratigraphic studies were collected.

A well-preserved and rather complete stratigraphic section of the Wisconsin was cored at Site 619. Ericson's Zones Z, Y, X, and W were penetrated. Computed sedimentation rates were 83.3 cm/1000 yr. for the Holocene (Zone Z, 10 m thick), 186.3 cm/1000 yr. for the late Wisconsin glacial (Zone Y, 136 m thick), 23.8 cm/1000 yr. for the Wisconsin interstadial (Zone X, 10 m thick), and a minimum of 76.5 cm/1000 yr. for the early Wisconsin glacial (Zone W, 52 m cored) (Fig. 3).

The predominantly clay section contains an abundance of bathyal benthic foraminifers in the lower part of the cored Zone W (early Wisconsin glacial), in addition to displaced shallow neritic benthic species. A prominent ash layer was cored at a sub-bottom depth of 141.5 m, coinciding with the top of Ericson's Zone X. This ash may be the Y-8 ash of Kennett and Huddlestun (1972) deposited 84,000 yr. B.P.

Diapiric movement forming this basin must have been minor during

the late Pleistocene because a minimum of mass-movement deposits were observed in the cored section. In spite of the fine-grained nature of the sediments, we were able to detect compositional changes at depths predicted by seismic reflectors; differences in sediment composition are small, but are apparently sufficient to provide the necessary impedance contrast.

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LEG 96 CORING SUMMARY

HOLE	DATES (1983)	LATITUDE	LONGITUDE	WATER DEPTH*	PENETRATION (m)	NO OF.	METERS	METERS	PERCENT OF RECOVERY
614	1-2 October 1983	25°04.08'N	86°08.21'W	3310 m	37.0	5	37.0	37.07	100
614A	2-4 October 1983	25°04.08'N	86°08.21'W	3310 ш	150.3	13	75.0	56.06	75
615	4-9 October 1983	25°13.34'N	85°59.53'W	3268 ш	523.2	52	419.3	175.29	42
615A	9-10 October 1983	25°13.35'N	85°59.55'W	3268 ш	208.5	17	74.5	51.93	70
616	11-14 October 1983	26°48.67'N	86°52.83'W	2983 m	371.0	34	307.8	143.38	47
616A	14-15 October 1983	26°48.65'N	86°52.86'W	2983 ш	132.4	4	38.4	24.21	63
616B	15-16 October 1983	26°48.66'N	86°52.85'W	2983 ш	204.3	22	143.2	113.74	62
617	17-18 October 1983	26°41.93'N	88°31.67'W	2467 m	191.2	21	130.1	111.58	98
617A	18-19 October 1983	26°41.93'N	88.31.67'W	2467 m	73.0	80	73.9	56.94	77
618	19-21 October 1983	27°00.68'N	91°15.73'W	2412 m	92.5	11	78.0	67.47	87
618A	21 October 1983	27°00.68'N	91°15.73'W	2412 m	9.74	т	28.7	18.52	65
619	21-22 October 1983	27°11.61'N	91°24.54'W	2259 m	208.7	25	134.4	111.88	83
619A	22-23 October 1983	27°11.61'N	91°24.54'W	2259 m	5.3	1	5.3	5.30	100
620	23-26 October 1983	26°50.12'N	88°22.25'W	2608 m	422.7	45	421.3	197.95	47
621	26-29 October 1983	26°43.86'N	88°29.76'W	2481 m	214.8	34	157.3	136.83	87
622	29-30 October 1983	26°41.41°N	88°28.82'W	2491 m	208.0	26	132.7	100.17	75
622A	31 October 1983	26°41.41°N	88°28.82'W	2491 m	5.6	1	5.6	5.55	66
623	1-2 November 1983	25°46.09'N	86°13.84'W	3177 ш	202.2	20	110.2	89.24	81

PERCENT OF RECOVERY	69	84	94
METERS RECOVERED	109.8 75.32	86.76	1665.19
METERS CORED	109.8	103.7	2586.2
NO OF. CORES	23	22	387
PENETRATION (m)	199.9	207.6	
WATER DEPTH*	3183 ш	3183 ш	
LONGITUDE	86°16.63'W	86°16.63'W	
LATITUDE	25°45.24'N	5-6 November 1983 25°45.24'N	
	1983	1983	
DATES (1983)	3-4 November 1983	November	
DATE	3-4	9-9	
HOLE	624	624A	

* water depth from sea level

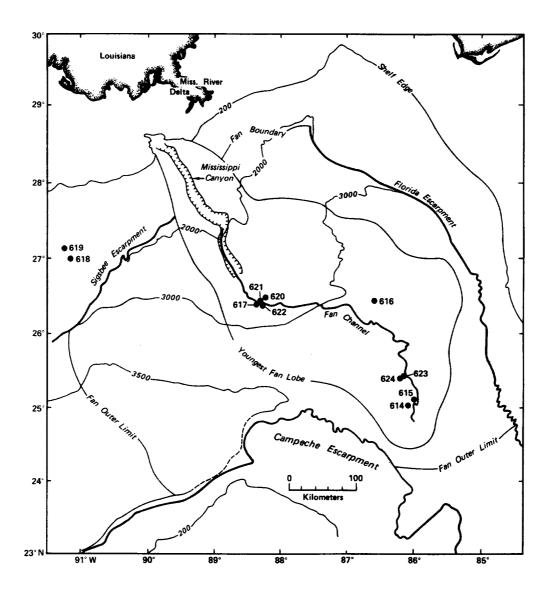
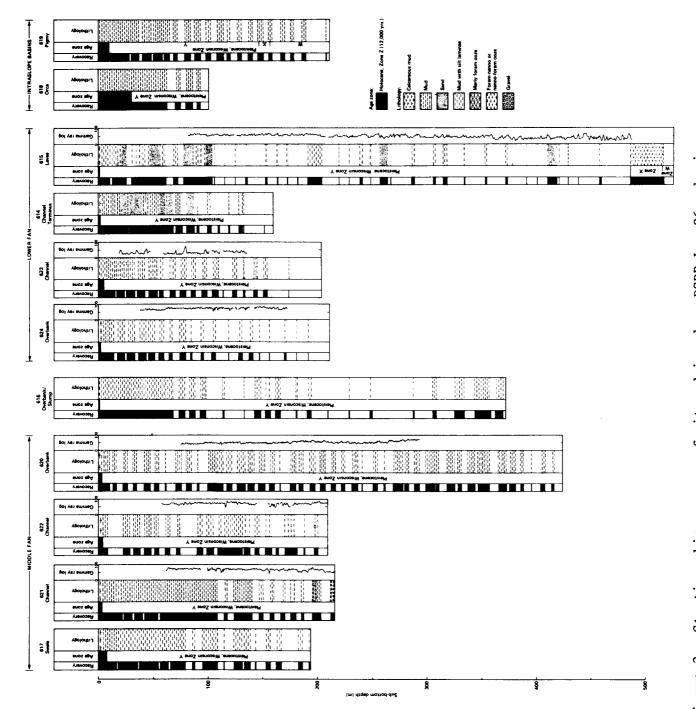


Figure 1. Location map showing sites drilled on DSDP Leg 96.



stratigraphic summary of sites dri d on DSDP Leg 96, showing age, core recovery, general lithology, and well logging results. Stratigraphic summary of sites dri Figure 2.

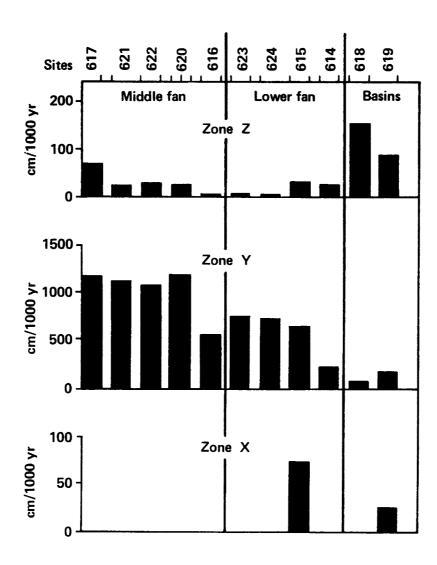


Figure 3. Undecompacted accumulation rates of sediments drilled on DSDP Leg 96.

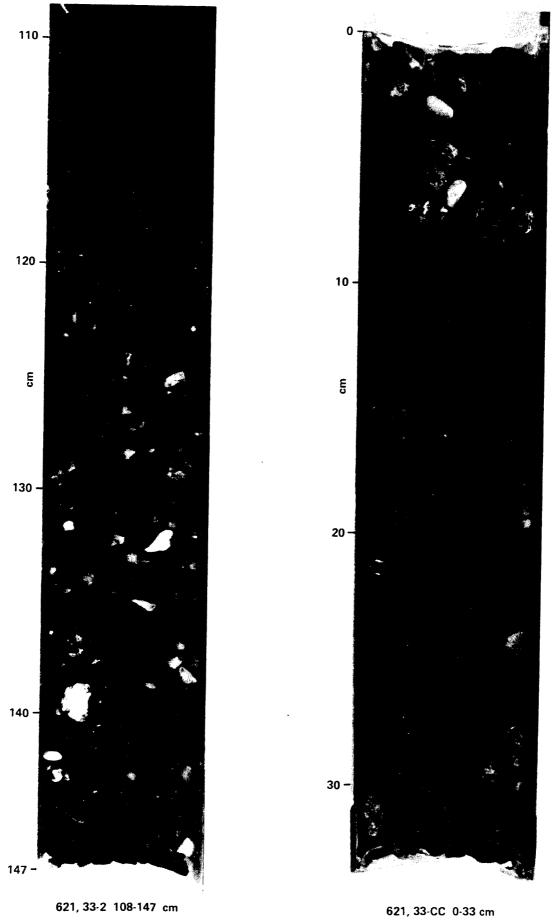
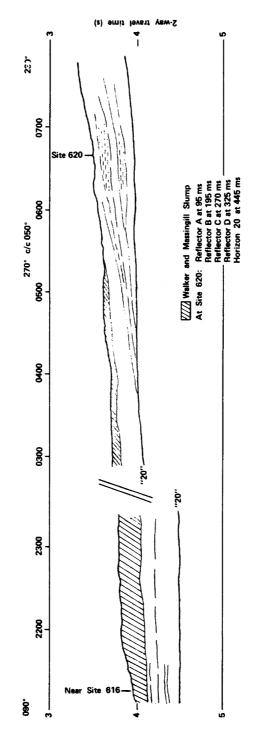


Figure 4. Core photos of 621-33-2, 108-147 cm and 33,CC (0-33 cm), showing sand, pebbly sandy mud, and gravel recovered at base of hole.



Seismic reflection profile collected on board Glomar Challenger Leg 96 showing offlapping reflectors observed at Site 616. Figure 5.

SITE 614

HOLE 614

Date Occupied: 1 October 1983, 1332 LCT

Date Departed: 2 October 1983, 1140 LCT

Time on Hole: 22 hr.

Position (latitude; longitude): 25°04.08'N; 86°08.21'W

Water depth (sea level; corrected m, echo-sounding): 3310 m

Water depth (rig floor; corrected m, echo-sounding): 3320 m

Bottom felt (m, drill pipe): 3314.1 m

Penetration (m): 37.0

Number of cores: 5

Total length of cored section (m): 37.0

Total core recovered (m): 37.07

Core recovery (%): 100

Oldest sediment cored:

Depth sub-bottom (m): 37.0

Nature: sand

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): 1.580 km/s

Basement: N/A

SITE 614

HOLE 614A

Date Occupied: 2 October 1983, 1140 LCT

Date Departed: 4 October 1983, 0140 LCT

Time on Hole: 1 day, 14 hr.

Position (latitude; longitude): 25°04.08'N; 86°08.21'W

Water depth (sea level; corrected m, echo-sounding): 3310

Water depth (rig floor; corrected m, echo-sounding): 3320

Bottom felt (m, drill pipe): 3314.1

Penetration (m): 150.3

Number of cores: 13

Total length of cored section (m): 75.0

Total core recovered (m): 56.06

Core recovery (%): 75

Oldest sediment cored:

Depth sub-bottom (m): 150.3

Nature: clay

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): 1.730 km/s

Basement: N/A

Principal Results:

Hole 614 was drilled in the lower Mississippi Fan (3290 m water depth) near the terminal ends of the lower fan channels and their interfingering depositional lobes. The site was located on R/V Conrad Line 70 (1430Z, 21 December 1982). The youngest fan lobe is approximately 200 m thick in this region.

Hole 614 penetrated to a depth of 37.0 m below the seafloor. The parting of the wire line connection to the corer required abandonment of the hole. Hole 614A, directly adjacent to Hole 614, was washed down to a depth of 37 m from where the coring was continued.

Hydraulic piston cores (HPC) were obtained to a depth of 131.4 m below the seafloor. Coring the thick sand units and extremely stiff clays became difficult with the HPC. The extended piston corer was attempted, but the sands tended to wash out, resulting in poor core recovery. A total penetration of 150.3 m was completed in Hole 614A.

Total core recovery in Hole 614 was 37.1 m and 56.03 m in Hole 614A.

During the entire coring operation, the ship encountered extremely strong currents (estimated at 3 knots) setting from the northeast.

This factor caused significant problems in maintaining position on the site.

The coring at the site accomplished the stated objectives. The principal results of the coring were:

1) We discovered a tremendous amount of sand in the lower fan at this site, making up an estimated 70% of the upper 150 m of the sediment column. The nearest source for this sand is the area near the head of the Mississippi Canyon, a distance of approximately 470 km from the site.

- 2) The fauna in the clays, as well as in the sands, is barren of planktonic foraminifers and contains reworked fauna typical of inner and middle shelf environments.
 - 3) The sequence is dominated by turbidite facies.
- 4) Sedimentation rates in the turbidite sequence are extremely high: about 206 cm/1000 yr. The thin Holocene sequence displays a rate of 1.6 cm/1000 yr.
- 5) The cored sequence shows an incomplete coarsening-upward sequence from 150 to 115 m, a blocky, thick sand sequence from 115 to 25 m, and a fining-upward sequence over the top 25 m.
- 6) The Advanced Piston Corer performed rather successfully in coring loose sand series.

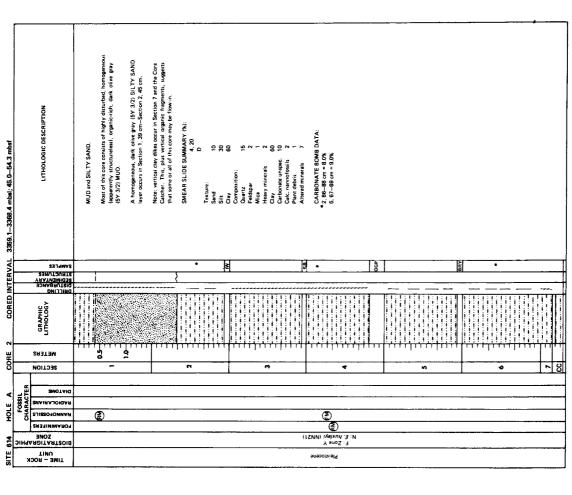
3323.5-3332.8 mbsl; 9.4-18.7 mbsf	LITHOLOGIC DESCRIPTION	SILTY MUD and CLAYEY MUD, dark gray to dark olive gray, to dark olive gray, (10YR 4/1-5Y 3/2), with thin SILT and SANDY SILT layers and lamines, and thin SAND beds. MUDS appear structureless, becoming irregularly laminated toward the base of the core. Bottuchbation is sire, fluids are dominantly terrigenous (quartz, carbonates, clays).	SILTS and SANDV SILTS are commonly less than 1–5 cm intherest, but raine up to 10 cm mice at subsour. They have super to gedational connects, are probably turbidites, and are dominantly terrigenous (quartz, carbonate, heavy minerals). SANDS are typically 10–30 on thick, silv, appear structuries or silpsity gasted, and are probably turbidites.	Composition of the sands is dominantly terrigenous iquartz-rich. Note that the number of silt layers recovered in this core is greater than that which appears in the Graphic Lithology greater than that wild suppears in the Graphic Lithology column. These silts are too numerous and thin to illustrate		Composition. Compo	- L ro 5	CARBONATE BOMB DATA: 1.106-108 cm = 7.0% 3.138-138 cm = 0.5%		
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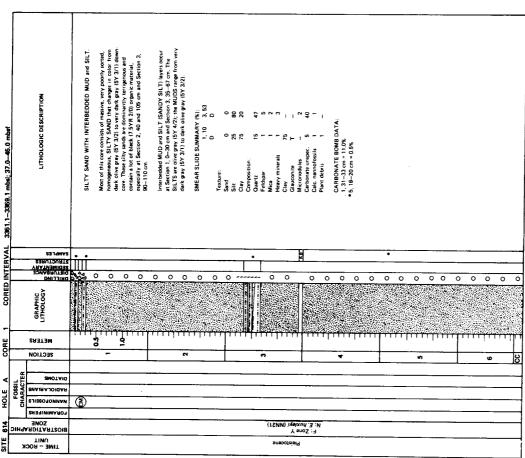
3314.1–3323.5 mbal; 0.0–9.4 mbaf	LITHOLOGIC DESCRIPTION	Section 1, 0-42 cm: MUDDY NANNO FORAM OOZE, olive brown to dark brown (2.5Y 4/4-10YR 4/3) in color. Section 1, 42 on-Coc equicher: SLTY MUD and CLAYEY MUD, dark gay brown to dark gay (10YR 3/2-5Y 4/1) with thin SLT and SANDY SILT layers.	MUDS appear structureless, rarely with possible bioturbation, and are dominantly detrial (quart and carbonate sits and days). SILTS and SANDY SILTS are less than 1–6 cm thick. They are commonly disturbed, and are dominantly detrial quarte with minor relospes and earboare). Some of the	airl layers are grossed (probably turbidite). tome may be sit-fulled burrows. SMEAR SLIDE SUMMARY (%): D M D M	Sand 2 20 Sand 2 20 Sind 66 70 Sit 66 70 Clay 33 10 Composition: 3 10 Feldopt 3 5 HAG	irls ous BOMI 0.5%	3, 48–60 cm = 1,5%	
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SITE 6	TIME - BOCK		жІоН			Docerne	straial9	

CORED INTERVAL 3342.1-3344.1 mbsl; 28.0-30.0 mbsf		LITHOLOGIC DESCRIPTION	SAND, dark gray to dark olive gray (5Y 4/1-5Y 3.5/2)	in color. Sitty, poorly sorted (maximum grain size is about 200 um) structuraless partly distincted and dominantly	terrigenous (quartz and altered grains). Probably furbiditic.	Section 1 contains zones of drilling breccia with mud clasts.	Note: Section 1 is a composite of two unsuccessful	attempts at coring this interval, Section, 2 and Core Catcher include all of the material recovered during the	third coring attempt. Actual stratigraphic position of the recovered sediments within the cored interval is unknown.	SMEAR SLIDE SUMMARY (%):	2,3	0	Taxture:		•	Clay 0	Composition:	Fedden	nerals	Altered minerals 25	CARRONATE ROMB DATA:	• 1, 31–33 cm = 6,0%	2, 50–52 cm = 3.0%	
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SILLY MUD and CLAYEY MUD, dark gay to dark cive gay 100 Mar. Band Deds. MUDS are namely laminesed with either line sit or darker med lamines some cross are completely treuctureless. The muds are dominantly deritial, mainly tubildite. SLLTS range from less than 1 mm to a few cm in thickness. They are immertally laminesed with either line sit or darker med lamines of profile Dominantly terrigenous. SANDS are dominantly terrigenous. (quartz-rich) and very poorly sorted imanumed, and allow good line-gamed turbildite structureless and grading. Dominantly terrigenous. SANDS are dominantly terrigenous. (quartz-rich) and very poorly sorted imanume gain size is about 700 µm). The thickest said bird is 2.15 m Intel, and is appeared try and profile structure. SIND A STANDS are dominantly terrigenous. (quartz-rich) and very poorly composition: 20 30 15 00 00 00 00 00 00 00 00 00 00 00 00 00	
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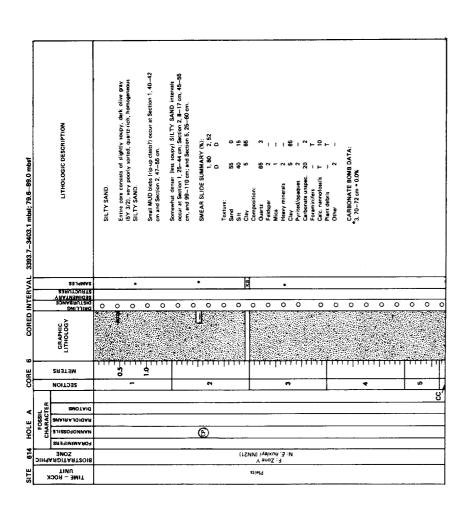
		-	rilling breccia.	NDDY SILT to ding from n size = 800 n grain size = sss. It is gray (5Y 4/2).														
il; 30.037.0 mbsf	LITHOLOGIC DESCRIPTION	Section 1, 0-30 cm: SAND. Section 1, 30-40 cm: deformed MUD layer.	Section 1, 40-95 cm: SAND and MUD drilling breccia.	Section 1, 86 cm-Core Carcher: thick SANDY SILT to SILTY SAND back Apart from nowing packing from SILTY SAND at the base Instaining gain size - 800 The Do SANDY SILT, at the top classificing with size - 250 pm], this bad is apparently structureless. It is dominantly terrigenous (quantz-rich) Olive gay (6Y 4/2).	SMEAR SLIDE SUMMARY (%): 1, 36		7 00 7 38 00 7	tion:	netals	Clay 38 Carbonate unspec. 5		CARBONATE BOMB DATA: 1, 50–52 cm = 2.0% 1, 130–132 cm = 0.5%						
344.1-3351.1 mbsl; 30.0-37.0 mbsf	SBIAMYS		Sect	Sect SILT SILT SILT SILT SILT SILT SILT SILT	SME	Texture:	Sir	Compo	Mica	Clay	Calc	CAR 1, 50						
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3374.9-3384.3 mbsl; 60.8-70.2 mbsf		LITHOLOGIC DESCRIPTION	SILTY SAND with interbedded SILTY MUD, SILT, and MUD faminee.	This core consists principally of slightly soupy, dark olive gray (5Y 3/2), quartz-rich, homogeneous, SILTY SAND.	Section 1, 75–137 cm contains leminated and bedded MUCS with sity bases and one SILT bed (86–90 cm). The dark laminas and beds are dark olive gray (6Y 3/2);	the light ones are dark gray (5Y 4/1). The emount of organic matter increases from 112-118 cm; the color of the organic relative hemines is bleek (2,5Y 2/0). The SLLTY SAND ped is commally careful with stars bettom and	gradational top contacts.	Section 2, 60–66 cm contains interbedded SILTY SAND and SILTY MUD with gradational contacts.	SMEAR SLIDE SUMMARY (%):		Texture: Sand 80	Sit 30	Composition:	Quartz 65		Heavy minerals 2	conite	Carbonate unspec. 15 Celc. nannofossils 1	Plant debris T	Other 2	CARBONATE BOMB DATA:	3, 132–134 cm * 1.0%				
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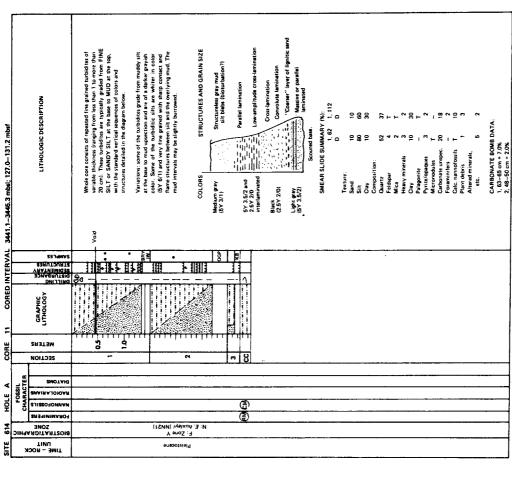
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CORED INTERVAL 3368.4-3374.9 mbsl; 54.3-60.8 mbsf		LITHOLOGIC DESCRIPTION	SILTY SAND.	Entire core consists of slightly soupy, dark olive gray	(51 5/2), quartziton, nomogeneous 5/L i 5AND.	SMEAR SLIDE SUMMARY (%):	0 0	ë	Sir 58		Composition: 68				Carbonate unspec. 20	Calc, namofossils T	Aftered minerals 10		CARBONATE BOMB DATA:	*2, 20–22 cm = 0.0%											
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		NC	Section 1 0 cm—Section 2 130 cm : this interval consists	Of the background in the contract of the Contr	of signify to moderately deformed mistigeneed mod.	100 miles	Dieds and layers are dominantly dark dilive gray (u.g. 5/2).	SILL'T SANDS are blive gray (ST 5/2). Varying pro-	tore are illustrated in the Graphic Lithology column.		Section Z, 130 cm—Section 4,115 cm; this interval consists	(6Y 3/1), homogeneous SAND layer.		4.112			06	01	0		70	8	ı	10	ı	1	í	1	ı	1						
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mbsl; 70.2–79		ГІТНО	Section 1 0 cm	and alliabells as	SI TY MIND	,	DIEUS AND I BYES	SILIT SANDS	core are illustra		Section 2, 130 c	(5Y 3/1), homogeneous SAND layer.	Control of the Comments of the	משנים מכושה		Texture:	Sand	Sir	Clay	Composition	Quartz	Feldspar	Mica	Heavy minerals	Clay	Pyrite	Carbonate unspec.	Calc. nannofossils	Plant debris	Other	CARBONATE BOMB DATA:	1, 48-50 cm = 2.0%	2, 57-59 cm = 1.5%			
3384.3-3393.7 mbsl; 70.2-79.6 mbsf			Void																																	
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3412.8-3422.1 mbsl; 98.5-108.0 mbsf		LITHOLOGIC DESCRIPTION	Section 1, 0 cm—Section 2, 91 cm: MUD interbedded	with numerous SILTY MUD, MUDDY SILT, and SANDY	SILT layers. The MUD is dark olive gray (5Y 3.5/2).	Interbedded SILTS are thin (less than 1 to 3 cm thick);	some are graded and cross-laminated.	Section 2, 91 cm—Section 3, 63 cm; homogeneous dark	grav/olive gray (5Y 4/1.5), quartz-rich SILTY SAND.		Note: locations of interbedded SILTS are schematically	shown by solid lines in the Sedimentary Structures column.		Ť	22	Q **	Texture:	_	Sir 80 40	8	Composition:	9 88	-	Mica T 2	minerals T		5		Carbonate unspec. 25 15	Foraminifers - T	Calc. nannofossils 2 1	Plant debris - T	Altered minerals - B	1	CARBONATE BOMB DATA:	e1,994–101 cm =8,0%	Z, 30–36 CH = 0.0%
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3403.1-3412.6 mbsl; 89.0-98.5 mbsf		LITHOLOGIC DESCRIPTION .	Section 1, 0—20 cm; SILTY SAND. Signity deformed, olive gray (SY 4/2), very poorly sorted, quartz-rich, normality-graded, and homogeneous.	Section 1, 20–62 cm: organicaries, laminated SILT (SILTY MUD) and MUD. Light-colored laminations are dark olive gay (SY 3/2); ark colored laminations are black (SY 2/1). These laminations are grapt on 0.1–1.0 cm little,	and are somewhat indistinct at Section 1, 20–30 cm.	section 1, or 2-40 cm. motu outscommous representations of SILT MUD is dark oline gay (57 3/2); SILT is dark gray (57 4/1). Number of discontinuous sit layers increases downcore. Base may be graded.	Section 1, 90–95 cm; SILTY MUD. Well-laminated, and organic-rich.	Section 1, 95–140 cm; SILTV SAND. Singhtly deformed, dark olive gay (15/3.5/2), very poorly sorted, quarterities, and homogeneous. Two thin organicarich layers occur at 10M and 105 cm.	Core Carcher: well laminated MUD (Core Carcher, 0-3 cm) and SILTY SAND (Core Carcher, 3 cm-base). Laminations are 1 mm thick.	SMEAR SLIDE SUMMARY (%):	97.' - a	::	Sit 35 70	Clay 5 29	98	Feldspar 3 2	Heavy minerals 3 2	ъ	Pyrite/opaques = 2	· -	fossils 1	Plant debris 2 2 Aftered minerals 1 5	CARBONATE BOMB DATA: *Settion 1, 92–94 cm = 2.0%
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3422.1-3431.6 mbst; 108.0-117.5 mbsf		LITHOLOGIC DESCRIPTION	SILTY SAND.	This core consists dominantly of dark olive gay (5Y 3.5/2), slightly soupy, poorly sorted, quarts-rich, homogeneous SILTY SAND.	The SILTY SAND in Section 1, 55–72 cm and Section 2 contains dark olive gray (SY 3/2) MUD clasts and bebs. The MUD clast at Section 1, 55–50 cm is laminated.	SMEAR SLIDE SUMMARY (%):	1, 10 0	Texture: Sand 74		Feldspar 5 Mica 2	y minerals	Carbonate unspec. 16 Foraminifers T	Calc. nannofossits T	Plant debris T Altered minerals 5	CARBONATE BOMB DATA: *Serion 1, 87–64 cm = 0.0%		3431.6-3441.1 mbal; 117.5-127.0 mbaf		LITHOLOGIC DESCRIPTION	Section 1 is only 98 cm long and consists primarily of very	derk gray (SY 3/1) MUO. This MUD contains blebs and thin, discontinuous layers of SLLTY MUD from 0–10 cm, 14–22 cm, and 32–96 cm.	The Core Catcher was badly disturbed during coring and deck handling and consists of intermixed dark olive gray	MOD (5Y 3/2) and SILTY SAND (5Y 3:5/2). Note: This lines was deformed and some of the core was	lost because liner sea destinent, and some out the cone was lost because liner sections could not be removed from the harrel.	CARBONATE BOMB DATA: • Section 1, 86–88 cm = 4,5%
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3446.3–3464.8 mbbi; 131.2–140.7 mbet LITHOLOGIC DESCRIPTION Section 1, 0–9 cm: MUD with tay SILTY MUD bebs and done discontinuous SILTY MUD bebs and done discontinuous SILTY MUD layer at 5 cm. MUD is dark olive gray 15Y 2/2). Section 1, 9–20 cm: a composite of the MUD chunks found in the Core Carther. This mud is identical to that resovered in Section 1, 0–9 cm.
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CORED INTERVAL 3454.8-3464.4 mbst; 140.7-150.3 mbsf		LITHOLOGIC DESCRIPTION		SILTY SAND with one ball of MUD.	SILTY SAND is dark olive gray (5Y 3/2) and poorly sorted. MUD is black (5Y 2/2).	Note: Recovered sediment in the Core Catcher only. Rest of the core barrel was empty.
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SITE 615

HOLE 615

Date Occupied: 4 October 1983, 1037 LCT

Date Departed: 9 October 1983, 1155 LCT

Time on Hole: 5 days, 1 hr.

Position (latitude; longitude): 25°13.3N; 85°59.5'W

Water depth (sea level; corrected m, echo-sounding): 3268

Water depth (rig floor; corrected m, echo-sounding): 3278

Bottom felt (m, drill pipe): 3283.9

Penetration (m): 523.2

Number of cores: 52

Total length of cored section (m): 419.3

Total core recovered (m): 175.29

Core recovery (%): 42

Oldest sediment cored:

Depth sub-bottom (m): 515.4

Nature: clay with silt

Age: Pleistocene (Ericson Zone W)

Measured velocity (km/s):

Basement: N/A

SITE 615

HOLE 615A

Date Occupied: 9 October 1983, 1150 LCT

Date Departed: 10 October 1983, 2035 LCT

Time on Hole: 1 day, 9 hr.

Position (latitude; longitude): 25°13.35'N; 85°59.55'W

Water depth (sea level; corrected m, echo-sounding): 3268

Water depth (rig floor; corrected m, echo-sounding): 3278

Bottom felt (m, drill pipe): 3285.9

Penetration (m): 208.5

Number of cores: 17

Total length of cored section (m): 74.5

Total core recovered (m): 51.93

Core recovery (%): 70

Oldest sediment cored: N/A

Principal Results:

Hole 615 was drilled in the lower Mississippi Fan on the western levee of the small central channel. The water depth at the site was 3278 m. The location of this site is 21 km northeast of Site 614.

The original location of this site was on R/V <u>Conrad</u> Line 73 at 2124Z. However, beacon failures forced us to move about 4 km away. The final Site 615 was positioned to the north and slightly to the west of 2138Z on R/V <u>Conrad</u> Line 75. A water-gun reflection record was acquired across the site by the D/V <u>Glomar</u> <u>Challenger</u>.

The total depth of penetration was 523.2 m. The Advanced Piston Corer was used to a depth of 136.0 m, showing a diminishing core recovery with depth. The remainder of the section was cored with the Extended Piston Corer, except for the interval 418.7-428.2 m in which the APC was used.

Core recovery varied widely and unpredictably. Down to a depth of 105 m recovery was extremely high, after which it varied between 0 and 30% with a few scattered very high percentages. The lowermost section (485-523 m) again gave excellent recovery. Below a sub-bottom depth of about 100 m the clays become very stiff and the sand content generally increases. Both tend to decrease penetration as well as retention of sand. The Extended Piston Corer normally prohibits entering of sand into the corer or does not retain it. A marked, but general, relationship exists between core recovery and amount of sand present in the section.

During the entire coring operation, the vessel encountered similar strong currents as at Site 614. The calm sea state certainly helped to maintain position.

At the end of the coring operation, during preparation for well logging, the pipe stuck for several hours. After freeing the pipe, two very successful logging runs were made: DIT-GR-caliper-sonic, dual induction-conductivity-GR and FDC/CNL/NGT-Porosity. The logs amazed the drilling crew by showing considerable less cave-in than was expected, and the scientific crew by indicating the high amount of sand in the cored interval.

The coring at Site 615 basically accomplished the stated objectives with the exception of a study on sedimentary structures, particularly in the sands, and on Mutti's compensation cycles. The complete unconsolidated nature of the sand caused fluidization during coring, eliminating the ability to observe sedimentary structures. The principal results obtained at this site are:

- 1) Although a large amount of sand was cored at this site and on the previous one, the well logs showed that sand content was significantly higher, by a factor of 2, than estimated from recovered core.
- 2) The lower 40 m of the cored section consists of an upward-fining carbonate sequence, starting with a breccia, overlain by a foraminiferal-nannofossil ooze and ending with a nannofossil-foraminiferal (juvenile species) ooze. This series is underlain by muds similar to those encountered above the calcareous series. Foraminifers indicate a shallow-water carbonate platform

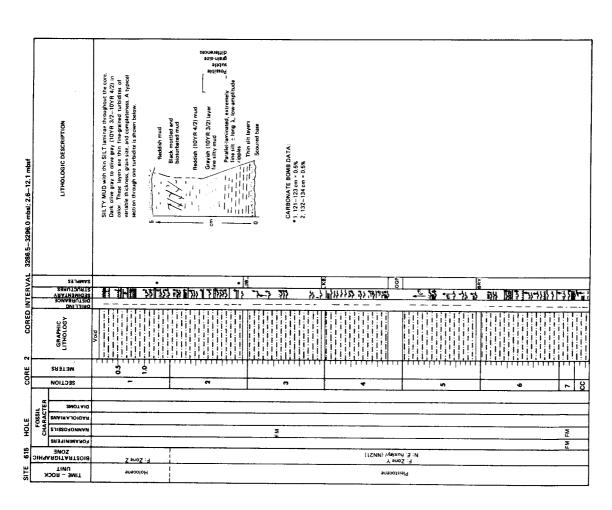
origin, likely coming from the north rather than from the Campeche.

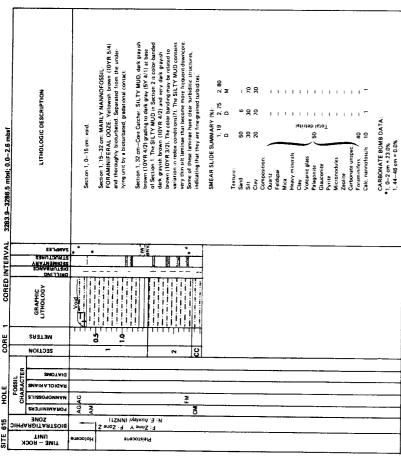
- 3) Ericson faunal Zones Z, Y, X and W (partial) were cored.
- 4) Two megacycles occur in the cored series, one per individual fan lobe. Each starts with a coarsening-upward series from mud to sand, following by bedded sands, and topped by a fining-upward sequence. The upper one has a Holocene pelagic ooze interval on top of the fining-upward sequence.
- 5) Turbidite deposition seems to be the major agent in sediment transport, including the muds. The source of the sediment is the middle and upper shelf environments.
- 6) Seismic Horizon 20 is difficult to establish in the cores but seems to coincide with the base of a clay interval (15 m thick) and the end of the presence of reworked Cretaceous foraminifers.
- 7) Seismic Horizon 30 coincides with the top of the calcareous series.
- 8) The calcareous series probably was emplaced by debris flow deposition rather than by turbidity currents.
- 9) Near the bottom of Ericson's Zone Y the first planktonic. foraminifers show up, increasing in number downward. The mud underneath the calcareous series likely is the top of the Ericson Zone W, the carbonates may be the only representative of Ericson Zone X.
- 10) The clays below 100 m show a higher stiffness than anticipated. Their overconsolidated nature can be ascribed to removal of overburden in an engineering sense. However, such is not

acceptable for this area. Another explanation deals with diagenetic changes.

- 11) It has been clearly demonstrated that when core recovery is poor, interpretations about the assumed lithologies for the section are possibly erroneous. Well logs proved to be essential for providing a more realistic lithologic picture.
- 12) The well logs clearly demonstrated that the nonrecovered core intervals were sandier than the obtained cores which often were slightly to medium muddy fine sands. This means that many beds likely show an upward grading and upward increase in clay-sized material.
- 13) Analyses of the well logs and cored section indicated a net sand thickness of 265.9 m or a 50.8% sand content in the cored interval. The upper lobe had a net sand thickness of 81.7 m or a 41.1% sand content whereas the lower lobe had a net sand thickness of 183.0 m or a 65.1% sand content.
 - 14) Computation of sediment accumulation rates are as follows:
- (a) Zone Z--33.5 cm/1000 yr.; (b) Zone Y--645.9 cm/1000 yr; and
- (c) Zone X--75.0 cm/1000 yr.
- 15) The upper cores through the levee show that these deposits are made up of thin-bedded (1-5 cm) fine-grained turbidites.
- 16) The absence of detectable gas, except the traces in the carbonates, likely is a function of low organic content and low bacterial activity.
- 17) Initial shrinkage studies on the clays show a change in the direction of anisotropy of the clays; the oblong pores being more

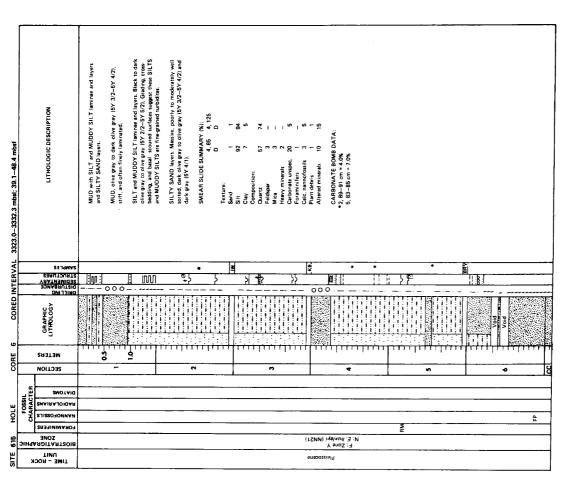
vertical in the upper part of the section and more horizontal in the lower part.



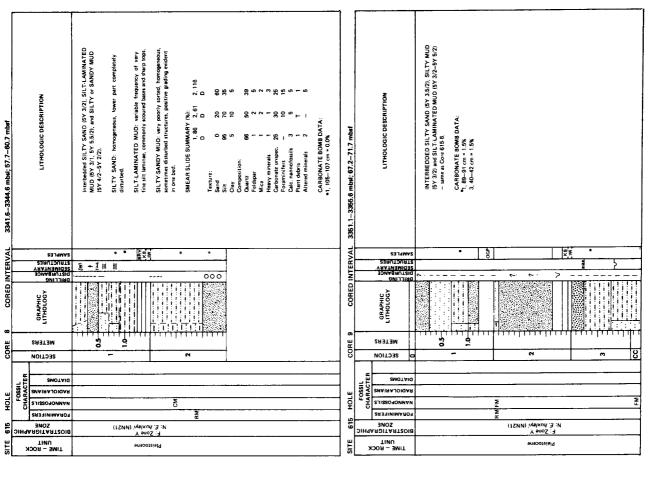


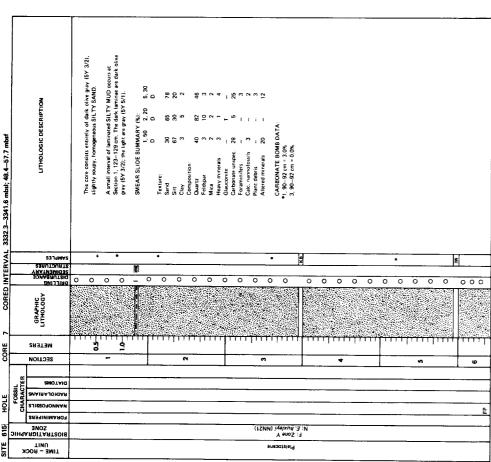
3304,0-3308.6 mbst; 20.1-24.7 mbsf		LITHOLOGIC DESCRIPTION	Section 1, 0–59 cm: SILT, very dark gray (10YR 3/1). Original lamines and bedding obliterated by core disturbance.	Section 1, 59-80 cm: MUD, dark gray (5Y 4/1).	Section 1, 80 cm—Section 2, 85 cm: Void.	Section 2, 65 cm-Section 5, 20 cm; SILTY SAND, dark olive gray (5Y 3.5/2), soupy, and homogeneous.	~	26.0		2/ 20 A	; ≏	sition:	8.	Feldspar 4 2	Heavy minerals 3 2	spec. 18	Foraminiters 1	· -	. 1	Altered minerals 12 25	CABBONATE BOMB DATA:	•1, 64-66 cm = 1.0%	4, 64–66 cm × 0.0%						
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3296.0–3304.0 mbsl; 12.1–20.1 mbsf	LITHOLOGIC DESCRIPTION	Section 1—2: MUD with SILT lamines and SANDY SILT back. MUD is dominantly very dark gaystib brown (10Y R 92); SILT and SANDY SILTS and Gardier gaystib brown (10Y R 42); and homogeneous, Many of the SILT and SAND layers are Imminated.	normally graded, and have scoured bases. Section 3 – Core Catcher: SAND, dark olive gray (5Y 3.5/2) and slightly soung, Appear to be fining-upwards sequences within the sand in Section 3.	(%):	Z, 30 Z, 100 3, 100 B, 123 B, 100 D D D D D D D D D D D D D D D D D D	0 85 55 70	Silt 65 13 35 20 37 Clay 35 2 10 10 3	8	1 1 2	2 1 1 2	m ا	unspec. 15 40 35 T	1	IS - 2 10 -		rals - 30 25 -		CARBONATE BOMB DATA:	1, 136–138 cm × 2.0%	3, 61-63 cm = 0,5%	%0.0 ± 0.0% c												
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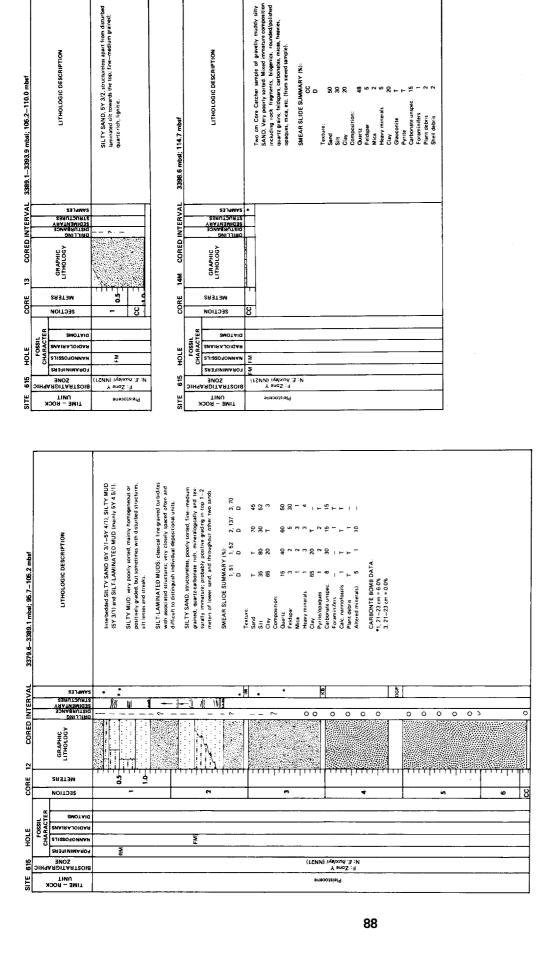
3313.5-3323.0 mbal; 29.6-39.1 mbsf	LITHOLOGIC DESCRIPTION	Section 1–3: SILTY SAND, olive gray (5Y 4/2–5Y 5/2), moderately well-sorted, and sightly youpy. Section 2 contains several fring upward turbidite sequences.	Section 4: MUD, homogeneous, dark olive gray (5Y 3/2), and highly deformed. Top 60 cm of this section contains interbedded, deformed sity layers.	Section 5–6: stiff olive gray (5Y 4/2) MUD with gray (5Y 5/1) SILTY MUD laminae. These sediments are finely	imminate or medium Radeds arrouge mode between sist beds and lamines is structureless, SLIY SAND occurs below Section 6, 46 cm, with some graded bedding, and convoluted bedding.	.: @	1, 14 3, 66 4, 80 D D D	Sand 15 75 0	35 55			3 - 2	Carbonate unspec. 15 39 10	, 20 °		rals 5 20	CARBONATE BOMB DATA:	2, 83—67 cm ≈ 2,0% 4, 106—108 cm ≈ 4,5%												
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L 3370.1-3378.6 mbst; 86.2-94.7 mbsf		LITHOLOGIC DESCRIPTION	Interbedded SULTY SANDS (6Y 3/2), SILTLAMINATED WUDS (6Y 3/6), SLUMPED or CONTORTED LAMINATED MUDS (6Y 3/1) and SILTY MUDS (6Y 3/6/2).	SILTY SANDS (near base): thin graded burbidites, with classical burbidite structures; quartz-rich and lignific; fine-medium grained grading to very fine-grained.	SILT-LAMINATED MUDS: classical fine-grained turbidites; clear to muddy, thick to very thin silt leminae in mud;	sits are quartz-carbonate rich, authigenic carbonate more important than up-section.	CONTORTED or SLUMPED INTERVALS: stirt-teminated mudt (as above) but disturbed with probable alump-like structures.			CALCAD STINE STINE ARY (%).	1,30 1,35	۵	Sand 75 0	52.	Composition:	Quartz 60 28	Jec.	Test Single S	٠,	nite T	Pyrite T - Carbonate Interec 15 10	F	ossils T	Plant debris Altered minerals 3 —	CARBONATE BOMB DATA:	*2, 64–66 cm * 4.5% 4, 64–66 cm * 5.0%
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3360.6-3370.1 mbsl; 78.7-86.2 mbsf	LITHOLOGIC DESCRIPTION	SILTY MUD (6Y 3.8/1) with pockets and irregular streaks of sand and silt. Gradational-datu/bed contect — —————————————————————————————————	Man site.—256 µm. fine-medium gated maximum izze 600–900 µm. possible positive grading in too 2 meters. Composition: quartz (65%), cadite (10–15%), altered gann (110%), fielding 13%), fixery mineria (3–2%, amphibole, pyrosens, zircon, paddes; tournaline), opaques and semi-opaques (3–5%), chert, lignite. SMEAR SLIDE SUMMARY (%): 1, 54 D Texture: Sand 69 Sill 71 Clay 1	Composition: Quartz Garatz Feldipar 5 Metary minerals 3 Clay Clay Print/Copaques 3 Micronodules T Carbonisters T Carbonisters T Carbonisters T	Case mandostis 1 Plant debris 1 Aftered minerals) 10			
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LITHOLOGIC DESCRIPTION

CORED INTERVAL 3427.1-3436.6 mbsl; 143.2-152.7 mbsf		LITHOLOGIC DESCRIPTION	Case according to the A cm of medium-organic SAND	in the Core Catcher. Maximum grain size ~ 1000 µm;	mean µ300 µm. The SAND is poorly sorted and consists	shell fragments. Overall color is dark olive gray (5Y 3/2).	A NO A A A A A A A A A A A A A A A A A A	SACAT SELECT SOCIATION (S.)	۵	Texture:	Sand 87	Silt 10	Clay 3	Composition:	Quartz 25	Feldspar 2	Mica 2	Heavy minerals 3	Carbonate unspec. 60	Calc, nannofossils 1	Sponge spicutes T	Plant debris 2	Altered minerals 5	
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3417.6-3419.9 mbsl; 133.7-136.0 mbsf		LITHOLOGIC DESCRIPTION	SAND grading to SILTY SAND (5Y 3.5/2) (problems with	coring, possibly disturbed) coarse sand at base —— very	quartz, feldspar, calcite, heavy minerals, opaques, forams,	lignite; clay ball and clasts near base.	SMEAR SLIDE SUMMABY (%):	1, 20 1, 130	a a	Texture;	- 98	Sut 15 15		sition:	Quartz 65 63	Feldspar 6 5	Heavy minerals 5 5	· -	Pyrite/opaques 5 5	BC. 5 1	_	Plant debris 1 2	Altered minerals 10 10	CARBONATE BOMB DATA:	1, 70° 7, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1, 10° 1,
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CORED INTE	ERV/	CORED INTERVAL 3408.1-3410.0 mbsl; 124.2-126.1 mbsf	SITE 615	HOLE	٦	CORE 17X	ı	NTER.	41	CORED INTERVAL 3427.1-3436.6 mbst; 143.2-152.7 mbsf
	-			FOSSIL CHARACTER						
SEDIMENTARY DISTURBANCE DISTURBANCE DISTURBANCE DISTURBANCE DISTURBANCE DISTURBANCE DISTURBANCE	STRUCTORES	LITHOLOGIC DESCRIPTION	OOR - JMIT TINU ARDITARTZOIR ANOS	EH3TINIMAROT SJISEOTONAN SMAIRAJOIDAR SMOTAID	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DRILLING PRATMENTER SARUTOURTS	\$974WV\$	LITHOLOGIC DESCRIPTION
+	۳		(1	2	2	Ĺ		_	*	
	+	Two cm Core Catcher sample of very firm silty mud-]	<u>.</u>				Т	Core consisted of only 4 cm of medium-grained a in the Core Catcher, Maximum grain size ~ 1000 g
		muddy silt; quartz-carbonate rich silt.	oue oue							mean µ300 µm. The SAND is poorly sorted and c
		SMEAR SLIDE SUMMARY (%):	Z :	_						of quartz and authigenic calcite (replaces forams) +
		8	1 _						_	shell tragments. Overall color is dark offee gray to
			' :N						-	SMEAR SLIDE SUMMARY (%):
				_						8
		Sand			_				_	۵
		Sirin 90							_	Texture
		Clay 10		_	_				_	
		Composition:								Silt 10
		Quartz 54			_				_	
		Feldspar 2		_	_					Composition:
		Mica			_					Quartz 25
				_						Feldspar 2
		01 /80	-							Mica 2
		Gladconte		_						Heavy minerals 3
		Pyrite		_	_					Carbonate unspec. 60
		Carbonate unspec. 30								Calc, nannofossils 1
		Cale, nannotossils			_					Sponge spicutes T
		Plant debris			_					Plant debris 2
		CARRONATE ROMB DATA			_					Altered minerals 5
		•CC, 0-2 cm = 11.5%								

GRAPHIC LITHOLOGY

METERS SECTION

HIOSTRATIGRAPHI SOUE

TIME - ROCK

F: Zone Y N: E. huxley! (NN21)

MUD and SILTY MUD is dominantly dark olive black (97.22) and domensoly, includes 11st and black SILTY MUD at 32–90 on has indistrict very thin bed grading to MUD at 32–90 on has indistrict very thin bed ending as one bedrain the MUD extenor. These very thin beds — thick laminas are absort in the MUD section. There are two crostbodded sitt lamines at 32–35 on and 37 on.

MUD and SILTY MUD with 2 SILTY SAND beds.

LITHOLOGIC DESCRIPTION

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GRAPHIC LITHOLOGY

CORED INTERVAL 3436.6-3446.1 mbsl; 152.7-162.2 mbsf

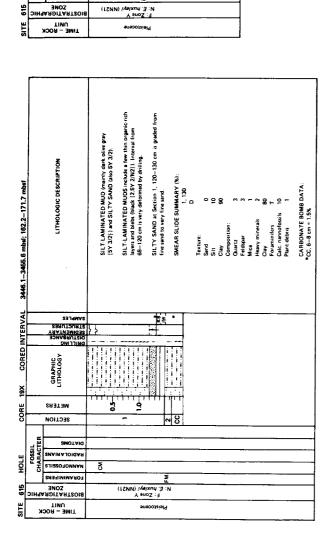
18X

SILTY SAND beds are very dark gray (5Y 3/1), poorly sorted, quartz-carbonate rich, and probably graded.

SMEAR SLIDE SUMMARY (%):
1, 20 1, 60
D D

Texture:
Sand
Sand
Sund
Clay
Clay
Clay
Mica
Heavy minerals
Carbonate unspec.
Carbonate unspec.
Carbonate unspec.
Carbonate unspec.
Carbonate unspec.
Altered minerals
Plant debits

CARBONATE BOMB DATA: •CC, 7-9 cm = 0.5%



SILTY MUD, dark olive gray (5Y 3/2). Much of this seems to be remolded, deformed, and incorporated with MUD and SAND.

CARBONATE BOMB DATA: *1, 5-7 cm = 0.0% CC, 25-27 cm = 5.0%

SILT-LAMINATED MUD at 32—35 cm, dark olive gray (5Y 3/2). Six thin laminae.

SAND: Fine: to medium-grained, very thin bedded or homogeneous, very dark gray to olive gay (BY 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5 Y 3/1-5

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Interbedded SAND, SILT-LAMINATED MUD, and SILTY MUD.

LITHOLOGIC DESCRIPTION

DISTURBANCE SEDIMENTARY SALPLES

GRAPHIC

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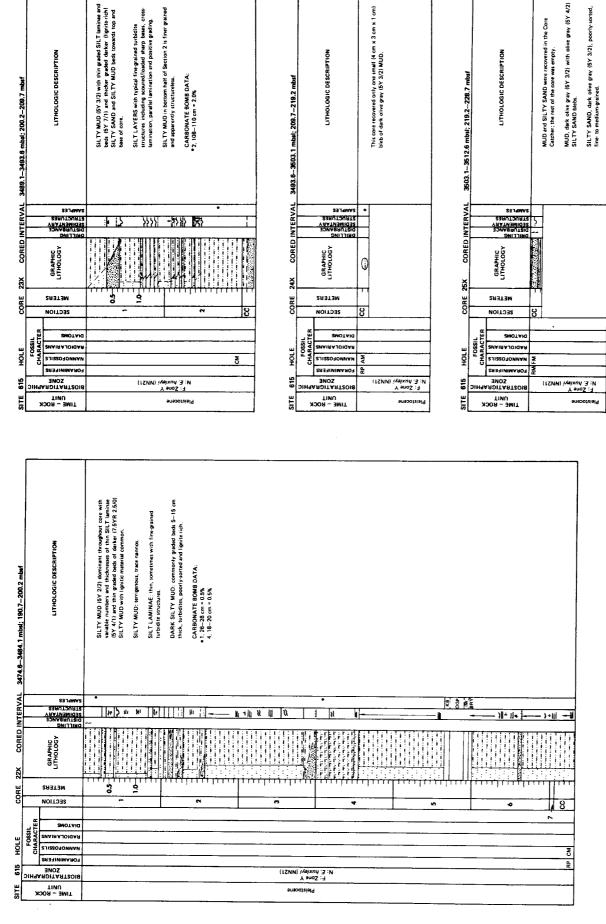
CORED INTERVAL 3465.1-3474.6 mbsl; 181.2-190.7 mbsf

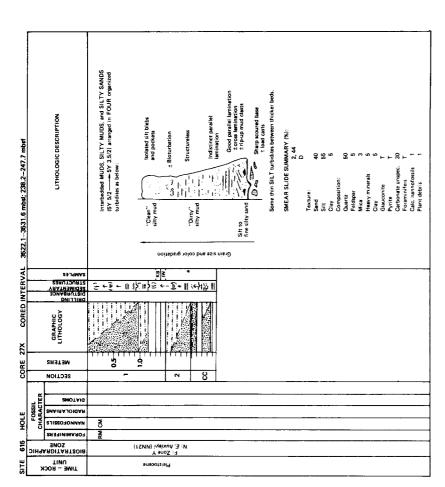
CORE 21X

HOLE

3465.6-3465.1 mbsl; 171.7-181.2 mbsf		LITHOLOGIC DESCRIPTION	Interbedded MUD, SILT, and SILTY SAND.	MUDS are olive gray to black (5Y 4/2–5Y 2/2) and homogeneous.	SILTS are dark olive gray to black (SY 3/2-6Y 2/2) and organic-rob. The organic-rob SILT at Section 1, 77–90 cm grades up section to MUD.	SILTY SANDS are dark olive gray (5V 3/2–5V 3.5/2), fine to medium-garbed, thickly-laminated to thinnly. bedded, and normally-gashed.	CARBONATE BOMB DATA: ₱1, 30–32 cm ≠ 0.5% CC, 18–20 cm ≠ 0.0%
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CORED INTERVAL 3465.6-3465.1 mbsi; 171.7-181.2 mbsf		LITHOLOGIC DESCRIPTION	Interbedded MUD, SILT, and SILTY SAND.	MUDS are olive gray to black (57 4/2–57 2/2) and homogeneous.	SILTS are dark olive gray to black (5Y 3/2-5Y 2/2) and organic-rich. The organic-rich SILT at Section 1, 77–90 cm grades up section to MUD.	SILTY SANDS are dark olive gay (BY 3/2–5Y 3,5/2), fine- to medium-gaded, thickly-laminated to thinsiy-bedded, and normally-gaded.	CARBONATE BOMB DATA: * 1.30—20 Sp. on -0.5% * 1.50 -0.0%
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615	21H4V	BIOSTRATIGRA BOOK		(IZNN) /	F: Zone Y	1	
SITE	к	DOR – BMIT TINU		,	Pleistocene		
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CORED INTERVAL 3831.6—3641.1 mbsi; 247.7—267.2 mbsi AAPHIC LITHOLOGIC DESCRIPTION BISHLINES STIMMOLES STIMOLES STIMMOLES STIMOLES STIMMOLES STIMO	Void Core Carcher has clear 15 cm thick turbidite.
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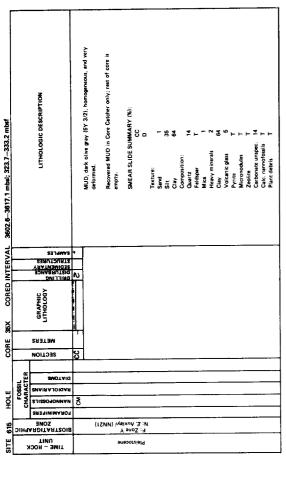
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CORED INTERVAL 3612.6-3622.1 mbst; 228.7-238.2 mbsf		LITHOLOGIC DESCRIPTION		About 4 cm disturbed soupy sediment in Core Catcher:	SILFY MUD, quartz/carbonate-rich silt fraction; and some nannos and cakareous needles.		SMEAR SLIDE SUMMARY (%):	8	a	Texture:	Sand	Sit 35	Clay 65	Composition:	Quartz 20	Feldspar T	Mica	Heavy minerals T	Clay 65	Pyrite	Carbonate unspec. 10	Foraminifers T	Plant debris T
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	LITHOLOGIC DESCRIPTION	SILTY MUD (6Y 3.5/2) with irregular silt pockets overlying SILTY MUD (6Y 41.5) with coarser silt and sand grading down into SILTY SAND (6Y 4/2).	Top 2 m can be inverpreted as a single rurbidite with relatively sharp contact between sandy-silty part and overlying amout Complete 8 m core shows possible suttle positive grading – but lower 6 m is probably flow-in.	SMEAR SLIDE SUMMARY (%):	1, 26 3, 100 D D	ure: 0	Silt 30 40 Clay 70 0	osition:	Quartz 15 68 Feldspar 1 8	⊢ 1	_	onite	Pyrite T T Carbonate unspec. 10 15	F	Calc. nannofossils 2 T												
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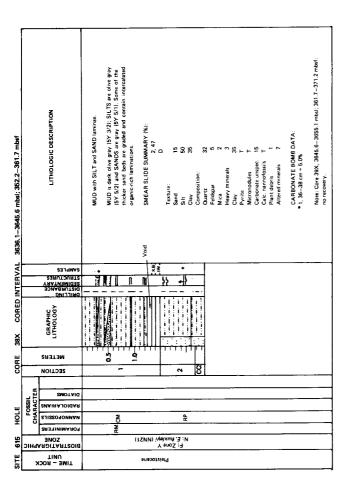
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3588.6-3598.1 mbsl; 304.7-314.2 mbsf		LITHOLOGIC DESCRIPTION	SILTY MUD, dark olive gray (5Y 3/2-5Y 3.5/2) and	subtle color variations.	• Core consists of several thick "dirty" disorganized silty	MUD turbidite-like layers as shown. These layers are rich in	dispersed lignite, regularly layered with slight compositional	variations, and positively graded from more-silty SILTY MAID so Mith I ower purhidite in Section 1 looks some-	what like a debrite.	SMEAR SLIDE SUMMARY (%):	25 –	٥	Texture:		Silt 26		ition:	Quartz 13	Feldspar	Mica	minerals	Clay /4	Micropodules	Carbonata program 10	Calc pageofossils 1	Disco deferie	Plant debris	CARBONATE BOMB DATA:	•1, 33–35 cm = 8.0%	. CC, 1–3 cm = 5.0%
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3689.8-3579.1 mbel; 285.7-295.2 mbsf		LITHOLOGIC DESCRIPTION	SILTY MUD (6Y 3.5/1) with variable frequency and	SILT and darker SILTY MUD beds (5Y 4/2).	 Sit laminae can be very thin and structures barely 	distinguishable.	• Sit beds and dark sitty-mud beds are positively graded	and with a range of turbidite structures. At least two types	of turbidites apparent:	(a) fine, clean, well-sorted and well laminated silt		(b) "dirty" coarser, poorly sorted, less well structured	and commonly lignitic silty mud turbidites.	SMEAR SLIDE SUMMARY (%):	1,56 1,72		Texture:		Sit 35 35	99	ition;	Quartz 10 53	oar 2	Mica.		onite	Pyrite	Micronodules T -	Carbonate unspec. 8 10	Foraminifers T T	ossils 1		Altered minerals 10 10	CARRONATE ROMB DATA	\$2,22-24 cm = 6.5%	2, 80–82 cm = 4.0%
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CORED INTERVAL 3617,1-3628.6 mbsl; 333.2-342.7 mbsf		LITHOLOGIC DESCRIPTION	MUD with SILT layers. SAND.	MUD is dark olive gay (5Y 2.5/2), Includes SILT layers and blefs: dark gay (5Y 4/1) with structures preserved in courser-gained/thicker beds.	SAND is dark olive gray (5Y 3/2) and medium-fina grained. SAND in Section 1 is normally-graded.	SMEAR SLIDE SUMMARY (%):	1, 12 D	<u>ت</u> و:	_	Sit 25	Clay /5	Quartz 9	Feldspar	Mica	minerals	Clay 75	Paragonite -	Misconodules	Zeolite	Carbonate unspec. 8	Foraminifers T	Calc. nannofossils T	Plant debris T	Other 5	CARBONATE BOMB DATA:	1, 15-17 cm = 6.5%	Note: Core 37X, 3626.6—3636.1 mbst; 342.7—352.2 mbsf:	no recovery.	
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3698.1-3607.6 mbst; 314.2-323.7 mbsf		LITHOLOGIC DESCRIPTION	Interbedded MUDS, SILTY MUDS, and SANDS.	SANDS are olive gray to olive (5Y 4/2-5Y 4/3), tine-	to coarse-grained, and graded (except for tand in Section 3, which is homogeneous).	SILTY MUDS are very dark grayish brown (10YR 3/2)	and organication.	MODS are dark ontre gray to thack (3) 5/2-3/1 4/2/. Homogeneous with occasional medium laminae of gray	(5Y 5/1) sit and sit and sand blebs and occasional wood fragments. Sit and sand blebs may be due to drilling	disturbance; regularly spaced "laminae" in muds may be driling shear planes.	~	83	n n	Cond 75 AF	£ £	30	sition:	Quartz 55 74	Feldspar	Heavy minerals	Carbonate unspec. 45 25	-	CARBONATE BOMB DATA:	*1, 20–22 cm = 5.5%	2, 134–136 cm = 0.5%	
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CORE 42X CORED INTERVAL 3683.6-3693.1 mbaj; 399.7-409.2 mbsf		LITHOLOGIC DESCRIPTION	SANDY SILT and MUD with sand-laminae.	SANDY SILT is dark gray to olive gray (5Y 4/1–5Y 4/2.5) and indistinctly laminated.	MUD (Section 1, 0–8 cm) is dark olive gray (5Y 3/2) and contains thin slit tayers 1–4 mm thick.
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Core Catcher contained one handful of medium-grained SAND. Rest of core was EMPTY.

LITHOLOGIC DESCRIPTION

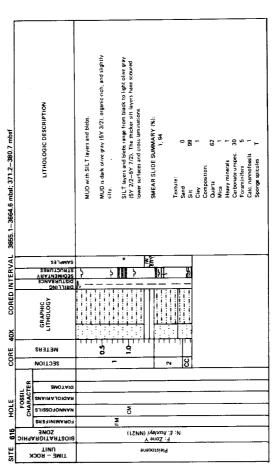
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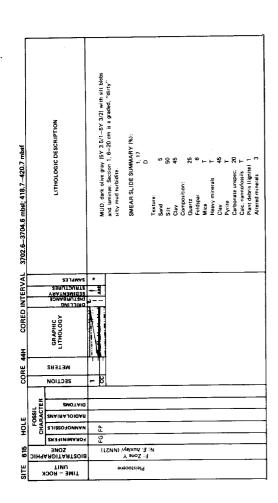
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CORED INTERVAL 3664.6-3674.1 mbst; 380.7-390.2 mbsf





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CORED INTERVAL 3704.6-3712.1 mbst; 420.7-428.2 mbsf		LITHOLOGIC OESCRIPTION	and have O and a sea A Cittle beautiful and a sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of the sea of th	Recovered a couple boils of Mood from the Core Catolier. Rest of core is empty.	SMEAR SLIDE SUMMARY (%):	22	0	Texture:	Sand 25	Sit 45	Clay 30	Composition:	Quartz 42	Feldspar 14	Mica	Heavy minerals 3	Clay 30	Carbonate unspec. 20	Plant debris 1
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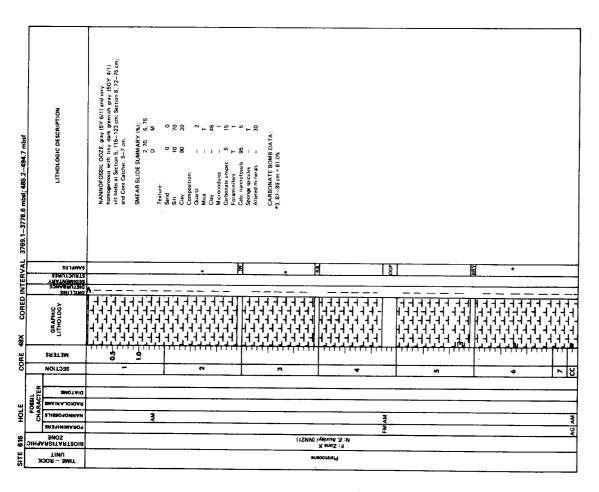
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CORED INTERVAL 3740.8-3750.1 mbsl; 456.7-456.2 mbsf		LITHOLOGIC DESCRIPTION	SAND, SILT, and SILTY SAND turbidites interbedded	with SILTY MUD and MUD layers.	SAND, SILT, and SILTY SAND turbidites are of variable	thickness as shown in "Sedimentary Structures" column.	One gray to 1 4/2), graded, poorly-sorted, and locally crossbedded.	SiLTY MUD and MUD interbeds are thin, dark olive gray	(5Y 3/2-5Y 3.5/2), and contain tiny blebs of lignite and	sift,	SMEAR SLIDE SUMMARY (%):	4	0 0	Texture:	_	5	Clay 0 5	sition:	Quertz 70 50		,	nic glass T 1	Glauconite T	Pyrite/opaques 7 4	Carbonate unspec 20	Foraminiters - T	Calc, nannofossils - T	Plant debris – T	CARBONATE BOMB DATA:	*1, 24–26 cm * 0.0%	2, 24-26 cm = 4.0%
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75.7-485.2 mbsf		LITHOLOGIC DESCRIPTION		Four cm Core Catcher sample only.	0-2 cm; SILTY MUD, dark olive gray (5Y 3.5/2), "dirty", and lignitic.	2-4 cm; NANNOFOSSIL OOZE, light greenish gray (5GY 7/1),	SMEAR SLIDE SUMMARY (%):	CC, 1 CC, 3	٥			0	06	+		Carbonate unspec 10	ifers – T	Calc. nannofossils - 90	picules - T
CORED INTERVAL 3759.6–3769.1 mbsl; 475.7–486.2 mbsf				Four q	0-2 cm; SH and lignitic.	2-4 cm; N (5GY 7/1),	SMEAR			Texture:	Sand	Sir	Clay	Series C	Pyrite/opaques	Carbon	Foraminifers	Calc. na	Sponge spicules
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3721.8-3731.1 mbsl: 437.7-447.2 mbsf		Lithologic description		SANDY SILT, dark olive gray (5Y 3/2-5Y 3.5/2). Includes	sifty mud.	SMEAR SLIDE SUMMARY (%):	1, 18	Q	Texture:	Sand 25	Sit 70		Composition:	-	Feldspar 15	Mica	Heavy minerals 2	Clay 5		Carbonate unspec. 25	Foraminifers T	Calc, nannofossils T	Plant debris 2	CARBONATE BOMB DATA:	•CC, 18 cm = 0.5%
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3778.6-3788.1 mbsl; 484.7-504.2 mbsf	LITHOLOGIC DESCRIPTION	NANNOFOSSIL. OOZE becoming FORAM NANNO. FOSSIL OOZE benes Section 3, 90 cm. Gay (57 6/1) and fairly homogeneous. Includes titte bette of foram-rich sous and sit. Dispersed organic material and coarse shell fragment more common below Section 6, 75 cm (especially Sertion 6, 59 cm 06 cm.).	SMEAR SLIDE SUMMARY (%): 1, 15 3, 95 7, 10 Texture: 5 and 7 10 4 Sile 10 55 25	90 65 solition: T T T T T T T T T T T T T T T T T T T	es T T T T T T T T T T T T T T T T T T T			
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CORED INTERVAL 3797.6-3807.1 mbal; 513.7-523.2 mbaf		LITHOLOGIC DESCRIPTION		Section 1: NANNOFOSSIL 00ZE, color grades down-	section from light gray (101h 771; 0—30 cm) to light brownish gray (2.5Y 6/2—10YR 6/2: 30—115 cm) to dark	grayish brown (10YR 4/2; 115-124 cm).	Core Catcher: CLAY, Dark olive gray (10YR 3/2) with	faint, wavy, discontinuous laminae.	SMEAR SLIDE SUMMARY (%):	1, 10 1, 50 1, 123 CC, 10	0 0	re:	1 0	Sit 20 10 10 5	96 68 08	Composition:	Quartz T T T	Military minorals	90		Carbonate unspec. – 2 10	Foraminifers 2 5 2 -	Calc. nannofossils 98 95 96 -	Sponge spicutes - T	Bryozoan - T
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. 3788.1-3797.6 mbsl; 504.2-513.7 mbsf		LITHOLOGIC DESCRIPTION	FORAM NANNOFOSSIL OOZE, gray (5Y 5.5/1) and homogeneous.	Note: this core had to be heated, beaten, and extruded out of the core barrel. As a result, the sediment is quite	deformed and the sections are not cut to standard 160 cm lengths — section numbers and lengths are indicated in	"Section" column.	Core Carcher contains NANNOFOSSIL DOZE with clasts of red clay, green clay, chert, and white nannofossil ooze.	3,80 CC,1 CC		Sand 0 1 0 Sit 35 9 0	90	± ±			88	CARBONATE BOMB DATA:	%0.10 = m3 1.1−8.7.																
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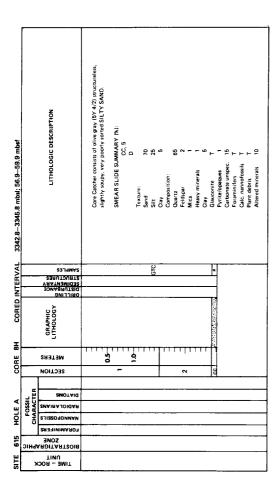
3291.5-3296.8 mbsl; 5.8-10.9 mbsf	LITHOLOGIC DESCRIPTION	Core Catcher consists of very dark olive gray (5Y 3.5/2)	SILT grading upsection to SILTY MUD.	SMEAR SLIDE SUMMARY (%):	CC, 15		Texture:	01 01 1/2		iosition:	•	je.		Heavy minerals 5	•			Carbonate unspec. 10	Calc. nannofossis T		Alterad minerals 10						
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	COREO IN LENVAL 3300.9-3301.4 mbst; 15.0-15.5 mbsf	LITHOLOGIC DESCRIPTION		Core Catcher consists of dark olive gray (5Y 3/2-5Y 3,5/2)	MUD with a layer of dark olive gray (5Y 3.5/2) SILTY	MUD inbetween. SILTY MUD is very poorly sorted,	unity , and contains a fot of lightite and woody material.	SMEAR SLIDE SUMMARY (%):	00, 10	Q	Texture:	_	Sit 50		Composition:	Quartz 30	Feldspar		Heavy minerals 3	Clay 30	Glauconite T	Pyrite T	Micronodules T	Carbonate unspec. 15	Foraminifers T	Calc. nannofossils T	Plant debris	(+ woody) 4
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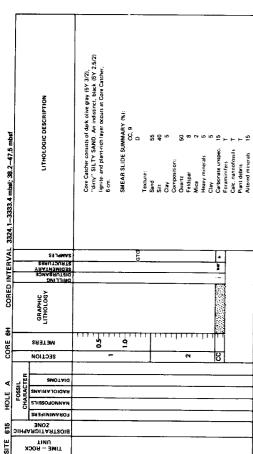
3285.9-3291.5 mbsl; 0.0-5.6 mbsf		LITHOLOGIC DESCRIPTION	Care Carehar consists of unior deformed dark manish	brown (10YR 4/2) MUD with discontinuous, thin silt	laminae. Sitt laminae are very dark grayish brown	(2.6Y 3/2).	SMEAR SLIDE SUMMARY (%):	CC, 28		re:	Sand 0			sition:	Quartz 5		minerals	May /0		Carbonate unspec. 15	norossus	Diatoms													
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3314.8-3324.1 mbsi, 28.9-38.2 mbsf		LITHOLOGIC DESCRIPTION	Core Catcher consists of interbedded SILTS and SILT. LAMINATED MUDS, dark olive gray (8Y 3/2).	SMEAR SLIDE SUMMARY (%):	55, 75	Textore:		Clay 75	ion:	Quartz 9	Mice	Heavy minerals	Clay 75	Palagonite T	Pyrite T			Calc. nannofossils 3	Plant debris T																			
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CORED INTERVAL 3305.4-3306.7 mbst; 19.5-20.8 mbsf		LITHOLOGIC DESCRIPTION	Core Catcher consists of dark olive gray (SY 3/2),	structureless, slightly soupy, very poorly sorted SILTY SAND.	SMEAR SLIDE SUMMARY (%):	00.00	0	Texture:		Sir 35		Composition:	Quartz 55	par		Clay 5	Glauconite T	Pyrite T	Carbonate unspec. 15	Foraminiters T	Calc. nannofossits T	Plant debris T	Altered minerals	fragments 20
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3352.2-3354.7 mbsl; 66.3-68.8 mbsf		LITHOLOGIC DESCRIPTION	Core Catcher consists of dark olive gray (5Y 3/2)	homogeneous MUD with two thin SILT laminae.	SMEAR SLIDE SUMMARY (%):	CC, 12	0	Texture:	Sand	Sir 15	Clay 85	Composition:	Quartz 5	Feidspar T	Heavy minerals 2	Clay 80	Palagonite T	Pyrite/opaques T	Carbonate unspec. 8	Caic. nannofossils 5	Plant debris T
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CORED INTERVAL 3333 4-3339 4 mbsl: 47 5-53 5 mbsf	and the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design of the design o	LITHOLOGIC DESCRIPTION	Core Catcher consists of olive grav (5Y 4/2), enturbusing	slightly soupy, very poorly sorted SILTY SAND.	SMEAR SLIDE SUMMARY (%):	6 '33	Q	Texture:	Sand 60			Composition:	Quartz 60	Feldspar 2	Mica T	Heavy minerals T	Clay 10	Pyrite/opaques T	Carbonate unspec. 13	Foraminifers T	Calc. nannofossits T		Altered minerals 15
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CORED INTERVAL 3370.4-3374,9 mbsl; 84,5-89.0 mbsf		LITHOLOGIC DESCRIPTION	Core Carcher consists of MUD with thin, indistinct SILTY	MUD laminae (Core Catcher, 0—11 cm) overlying an indistinctly graded, "dirty" layer of SANDY SILT	(Core Catcher, 11–20 cm). All dark olive gray (5Y 3/2).	SMEAR SLIDE SUMMARY (%);	CC, 18		ïe:	_	Sit 50		ition:	Quartz 55	Feldspar 1	Mica	Heavy minerals 1	Clay 10	Volcanic glass 1	Palagonite T	Pyrite/apaques 5	Carbonate unspec. 15	Całe, nannofossils T	Plant debris T	Altered minerals 12			
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CORED INTERVAL 3445.6-3447.6 mbsl; 159.7-161.7 mbsf		LITHOLOGIC DESCRIPTION		Con Catche covists of very deformed dark olive gay (59' 3/2) SILT and MUD. SILT is "diry" (lighter, and mica-rich).	SMEAR SLIDE SUMMARY (%): CC, 3	0		Sit 60		Quartz 55		Mica T	Heavy minerals 3	Clay 30	Pyrite/apaques 1	Carbonate unspec. 5	Calc. nannofossils T	Plant debris T	Altered minerals 3								
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		CORED INTERVAL 3379.9-3380.0 mbsj; 94.0-95.0 mbsf		LITHOLOGIC DESCRIPTION		Core Catcher consists of very dark grayish brown	1+			0 0	Texture:	2	Sir 60 20	38		Quartz 50 40	٧.		Heavy minerals 2 t	3.	Palagonite 1	? !	Carbonate unspec. 15 15	Foraminiters — T	Calc. nannofossils 2	Diatoms T	Flant debris 2
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SITE		TIME - ROCE																										SITE
CORED INTERVAL 3370.4—3374,9 mbsl; 84.5—89.0 mbsf		LITHOLOGIC DESCRIPTION	Core Catcher consists of MUD with thin, indistinct SILTY	MUD laminae (Core Catcher, 0—11 cm) overlying an indistinctly graded, "dirty" laver of SANDY SILT	[Core Catcher, 11-20 cm]. All dark olive gray (5Y 3/2).	SMEAR SLIDE SUMMARY (%):	CC, 18			40	20		ition:	55		-	Heavy minerals 1	10	Volcanic glass 1	ite →		Carbonate unspec. 15	Cale, nannofossils T	Plant debris T	Altered minerals 12			
1.9 mbs;			Core	MUD	(Core	SMEA			Texture	Sand	Sir	Cay	Comb	Quartz	Feldspar	Mica	Heavy	Clay	Volcar	Palagonite	Pyrite	Carbo	Calc. r	Plant	Aitere			
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Core Catcher consists of dark olive gray (5Y 3/2), homogeneous MUD with gray (5Y 5/1-5Y 6/1) laminae and blebs.

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CORED INTERVAL 3436.0-3439.6 mbst; 150.1-153.7 mbsf

CORE 12H

TIME - ROCK

METERS SECTION

3475.3-3484.9 mbsl; 189.4-199.0 mbsf		Lithologic description	Core Catcher consists of SILT-LAMINATED MUD and	olive gray (EY 3/2).	SMEAR SLIDE SUMMARY (%):	CC, 31	a	re:	Sand 10			sition:	(*)	7		minerals	Clay 26		Carbonate unspec. 11	slisso		Altered minerats 10	Note: Core 17X, 3484.9—3494.4 mbs); 199.0—208.5 mbsf:	no recovery.							
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No Core Catcher. All of Section 1 given to Geotechnical Consortium (GTC) for shorebased studies.

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CORE 14H CORED INTERVAL 3455,2-3455.7 mbsl; 169.3-189.8 mbsf

HOLE A

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3.8-170.8 mbsf		LITHOLOGIC DESCRIPTION	Core Catcher consists of dark olive gray (5Y 3/2) MUD	with thin-bedded SILT/SANDY SILT graded layers and	discontinuous faminae and SILTY MUD. SILT/SANDY	SILT layers and SILTY MUDS are lignite-rich,	SMEAR SLIDE SUMMARY (%):	CC, 12	٥		us.	85	10	ion:	70	2	nerals 1	10	lass T	dones T	Carbonate unspec. 7	Calc. nannofossils T	- ×	inerals 10
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HOLE 616

Date Occupied: 11 October 1983, 0745 LCT

Date Departed: 14 October 1983, 0930 LCT

Time on Hole: 3 days, 2 hr.

Position (latitude; longitude): 26°48.67'N; 86°52.83'W

Water depth (sea level; corrected m, echo-sounding): 2983

Water depth (rig floor; corrected m, echo-sounding): 2993

Bottom felt (m, drill pipe): 2998.9

Penetration (m): 371.0

Number of cores: 34

Total length of cored section (m): 307.8

Total core recovered (m): 143.38

Core recovery (%): 47

Oldest sediment cored:

Depth sub-bottom (m): 371

Nature: clay

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): 1.70

HOLE 616A

Date Occupied: 14 October 1983, 1917 LCT

Date Departed: 15 October 1983, 0726 LCT

Time on Hole: 0 days, 12 hr.

Position (latitude; longitude): 26°48.65'N; 86°52.86'W

Water depth (sea level; corrected m, echo-sounding): 2983

Water depth (rig floor; corrected m, echo-sounding): 2993

Bottom felt (m, drill pipe): 2998.9

Penetration (m): 132.4

Number of cores: 4

Total length of cored section (m): 38.4

Total core recovered (m): 24.21

Core recovery (%): 63

Oldest sediment cored:

Depth sub-bottom (m): 132.4

Nature: clay

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): 1.78

HOLE 616B

Date Occupied: 15 October 1983, 0825 LCT

Date Departed: 16 October 1983, 1445 LCT

Time on Hole: 1 day, 6 hr., 20 min.

Position (latitude; longitude): 26°48.66'N; 86°52.85'W

Water depth (sea level; corrected m, echo-sounding): 2983

Water depth (rig floor; corrected m, echo-sounding): 2993

Bottom felt (m, drill pipe): 2998.8

Penetration (m): 204.3

Number of cores: 22

Total length of cored section (m): 143.2

Total core recovered (m): 113.74

Core recovery (%): 79

Oldest sediment cored:

Depth sub-bottom (m): 204.3

Nature: clay

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): N/A

Principal results:

Hole 616 was drilled on the eastern lateral margin of the youngest fan lobe. The site was located on U.S.G.S. Line 22 (S.P. 225) in 2983 m of water. A water gun and sub-bottom record was acquired across the site by the D/V Glomar Challenger.

Total penetration at the site was 371.0 m. Core recovery to a depth of 102 m was excellent utilizing the Advanced Piston Corer.

From that depth down the Extended Piston Corer was used and recovery was marginally successful to a depth of 320 m. Good recovery was again obtained with the XCB in the interval 320 m to TD at 371 m. A malfunctioning check valve in one of the XCB's contributed to the poor core recovery. At a depth of 371 m, the pipe became stuck and the decision was made to run a well log through the stuck pipe to allow interpretation of the missing cored sections, especially in the lower part of the hole. An extremely successful log run was completed and the gamma log response correlates very well with the cored intervals. The pipe was severed at the lowermost joint of the $5\frac{1}{2}$ drilling pipe.

Hole 616A was offset slightly and cored at selected intervals to a depth of 132.4 m to obtain some of the cored sections missed in Hole 616. In the upper section of 616A, at a depth of 34.6 m, the downhole orientation system on the APC was attempted in a sequence of steeply dipping beds. Upon retrieval, it was found that the sensor wires in the orientation tool had been severed and that the plastic liner was buckled; no core was recovered.

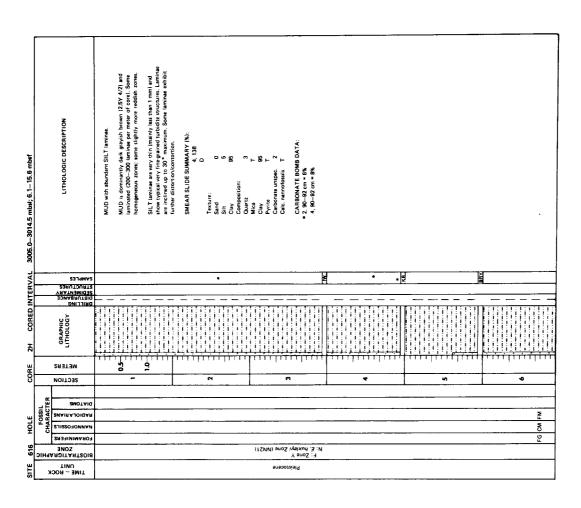
Hole 616B was for geotechnical purposes and a series of successful cores were obtained to a depth of 204.3 m.

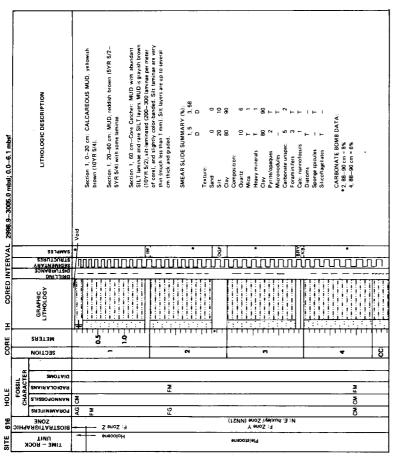
Drilling at Site 616 was considered successful and the major scientific objectives were achieved. The principal results were:

- 1) The entire sequence cored was much finer grained than at the previous sites in the lower fan. This is in agreement with the location of the site being on the lateral margin of the fan lobe.
- 2) The upper 100 m of cored section consists of an overall coarsening-upward fine-grained mud and silty sequence displaying extremely steep dips (ranging up to 65°). Numerous small zones of disturbance separate sequences displaying variable dips. The sequence obviously represents emplacement by mass-movement processes, but the source of the sediment is unknown as the entire section was virtually devoid of foraminifers. A high radiolarian content was present, but the depth ranges of the forms present have not been established.
- 3) A successful gamma log run was acquired through the drill string to a depth of 249 m, the top of the drill collars. The presence of thick high-gamma radiating clays alternating with relatively clean sands resulted in a highly discriminating log response. The log significantly aided in the interpretation of the missing cored sections.
- 4) In addition to the mass-movement interval, two fan lobes were cored. The youngest fan lobe is approximately 88 m thick with a total of 33.8 m net sand (38.5%) and is a fining-upward sequence. The lower fan lobe was only partially cored, but appears to display a coarsening-upward trend with a minimum of 7% sand. The sand sequences

in the older lobe tend to show graded base sands while in the upper, younger lobe, the sands display both graded and sharp bases.

5) The entire section contained sparse planktonic foraminifers indicating a rapid accumulation rate. One interval, from 65 to 150 m contained a relatively high faunal content, possibly representing slower accumulation rates. Ericson's Zone Z (Holocene) was less than a meter thick and the cored section basically stayed in Ericson's Zone Y. Although Ericson's Zone X was not penetrated, a minimum accumulation rate for the cored section can be calculated to give approximately 3.78 m/1000 yr., excluding the overlying slide deposits. Based on seismic correlations of Zone X, the accumulation rate could be as high as 5.63 m/1000 yr. The site clearly demonstrates that thick series of fine-grained sediments can be deposited rapidly in deep water settings and that low- or nondepositional periods are too short to accumulate planktonic foraminifers provided the upper water is sufficiently clear to have a photic zone.



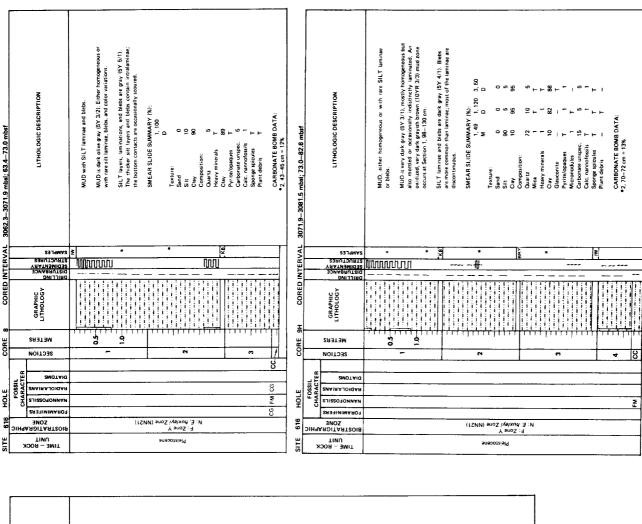


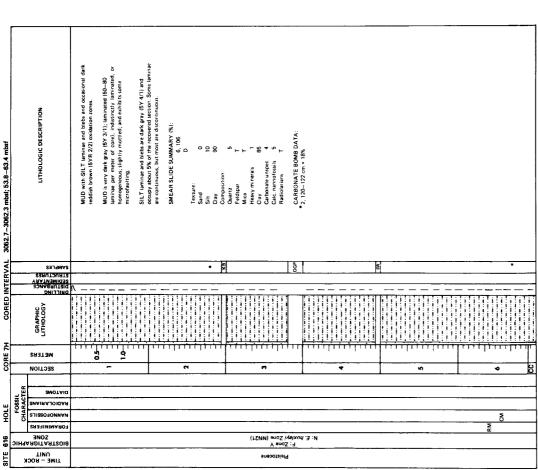
3024.U-3033.5 mbst; 20. I-34.0 mbst	LITHOLOGIC DESCRIPTION	MUD with abundant SILT laminae. MUD is dark gavyith brown [2.5Y 4/2] and dominantly immated (100–200 laminate per meter of cost), with some brompaneous somes. Control red structures include vertical still tempines and overrowned folds, micro-faulting common.	SIL'I lamines are thin and show vipical fine-grained turbolice structures. Lamines are inclined (maximum = 50–90°). SMRAR SLIDE SUMMARPY (%):	6, 65 Texture: 65 Sind 65 Sit 36 City 0	Quornaction: Quarta Quarta Feldspar Heavy marets 2 Garbonate uspec. 25 Foraminifers T Calc. namofossis T	CARBONATE BOMB DATA: 2.70-72 cm = 6% 5.70-72 cm = 7%				
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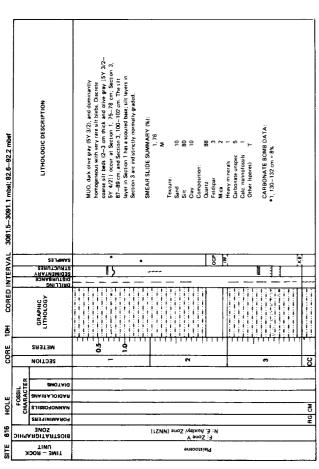
3014.5-3024.0 mbd; 15.6-25.1 mbsf	LITHOLOGIC DESCRIPTION	MUD with abundant SILT lamines and layers. MUD is dark grayet brown 125V 4/21 and dominantly laminated about 760–300 lamines per meter of core), with some homogeneous zones. Minor slump structures; microfauling common.	SILT famines and layers are thin and show typical fine- grained turbidites structures. Lamines are inclined (maximum = 90"). Some redicts thown (5YR 4(4) and red (5YR 4(2) zones occur at the top of Section 1.	SMEAR SLIDE SUMMARY (%): 2, 37 4, 115 M M M Texture: 3 20 City O 3 80	112 38 19 10 10 10 10 10 10 10 10 10 10 10 10 10	CARBONATE BOMB DATA: 1, 80-82 cm = 11% 3, 80-82 cm = 7%		
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3043.1-3052.7 mbsi; 44.2-53.8 mbsf		LITHOLOGIC DESCRIPTION	MUD with SILT iamine and blobs. MUD is predominantly dark olive gay (SY 3/2); very dark brown (10YR 3/2) between Section 1, 83 cm and dark brown (10YR 3/2) between Section 1, 83 cm and Section 2, 85 cm with layering assets by smalt color variations. Mucl is either homogeneous, luminated (70–170 laminae per meter of core), or slightly motited	unervina shown in sedimentary shoutcules, column). SLT laminae and blebs are gray (5Y 4/1).	SMEAR SLIDE SUMMARY (%): 2, 30 7, 30	Texture: Sand Sind Sin Sin Sin	Clay Composition: Composition: 15		Clay Clay Clay Clay Carbone unipe. 5	CARBONTE BOMB DATA: - 2, 50–52 cm = 11%	4, 50–52 cm = 13%					
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3033.5-3043.1 mbst; 34.6-44.2 mbsf		LITHOLOGIC DESCRIPTION	MUD with abundant SILT laminae.	MUD is dark grayish brown (2.5Y 4/2) and dominantly laminated (100–200 laminae per meter of core), with	some homogeneous zones. Minor reddish brown (5Y 4/4) and red (5Y 4/2) oxidized zones; some microfaulted and	some contorted zones.	SILT laminae are thin and show typical fine-grained turbidite structures. Laminae are inclined (maximum	* 65°}.	SMEAR SLIDE SUMMARY (%):			Sir 95	oosition:	Quartz 75 Faldspar 1		Heavy minerals 3		Calc, nannofossils T	Plant debris 3	CARBONATE BOMB DATA:	• 2, 90–92 cm = 7% 6 90–92 cm = 8%	20 - 27 cm - 20 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27 cm - 27														
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CORED INTERVAL 3091,1-3100,7 mbsl; 92,2-101,8 mbsf		LITHOLOGIC DESCRIPTION	MUD very dark gray (5Y 3/1); dominantly homogeneous	with somewhat indistinct laminations in Section 2 mainly	due to color variations (slight oxidation), MUD includes	SILT/SILTY MUD beds and rare dark gray (5Y 4/1)	SILT laminae and blebs, SILT/SILTY MUD beds are very	derk gray (5Y 3/1).		GREAT CLICE COMMINICATION (1997)	. 3		Sand	8		Composition	Quartz 77 20	,	Mica 4	Heavy minerals 2		Pyrite/opaques –	Micronodules – 1	Carbonate unspec. 10 5	Foraminifers – T	Calc. nannofossils – T	Sponge spicules – T		CARBONATE BOMB DATA:	1, 8–10 cm × 6%			1.04.U—1.13.0 mBst; no recovery.
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	Texture:	Sand	žiš.	Clay 8	Composition:	Quartz	Mica	Heavy minerals	Clay	Glauconite	Pyrite/opaques	Micronodules	Carbonate unspe	Calc. nannofossi	CARBONATE BOMB DATA:	*1, 57–59 cm = 7
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CORED INTERVAL 3122.1-3131.7 mbsl; 123.2-132.8 mbsl

CORE 14X

HOLE

616

MUD, dark olive gay (BY 3/2) and homogeneous with rare, thin, discontinuous sit lannaee and blebs, Some of the sit blebs are olive gay (BY 5/2).

SMEAR SLIDE SUMMARY (%):

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F: Zone Y N: E. huxleyi Zone

Pleistocene

LITHOLOGIC DESCRIPTION

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SNAIRAJOIGAE

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CORED INTERVAL 3112.5-3122.1 mbsl; 113.6-123.2 mbsf

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CORE

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	LITHOLOGIC DESCRIPTION		Corr Catcher contained one small handful of homogeneou, dark olive gray (SY 3/2) MUD. Rest of core was empty.	
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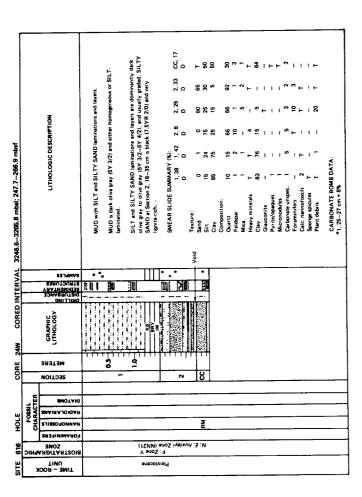
3141.33147.9 mbsl: 142.4149.0 mbsf	LITHOLOGIC DESCRIPTION	MUD dark olive gray (5Y 3/2) with rare SILT laminate and lawn, both darker and inghte rollored (5Y 27—5Y 5/2) Sizen layer have indications of freegained humbine structures; best over a tew cm hick as shown in "Graphe Linhology" column. SMEAR SLIDE SUMMARY (%): 3 80 4 68 Texture:	Sand 0 5 Sit 25 80 Sit 25 80 Camposition: 7 15 Camposition: 7 30 Mica 1 5 Heavy mnetals T 5 Clay mnetals T 5 Palaconts T T Palaconts	Microndules T – Microndules T – Carbonate unspec. 12 23 Foreminifers T T Calc. manifers T T Calc. manifers T T Redionisms – T Plant debrit 2 7 Altered grains – 10	CARBONATE BOMB DATA: *1, 68-70 cm = 9%. 3, 68-70 cm = 9%.
٧AL	SETAMPS	•		* HB	* 8
E	SEDIMENTARY STRUCTURES		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
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616	SINSTRATIGRAPHIC SONE		(IZNN)	F: Zone Y M: E. huxley! Zone	
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CORED INTERVAL 3174,6-3189.1 mbsl; 180.7-190.2 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark olive gray (5Y 3/1) with SILT laminae, layers,	and thin graded turbidite beds. SILTS are olive gray	CMEAR SUIDE SUMMARY (%):	1, 53	Q	Texture:	Sand 65	Sit 36	Clay T	Composition:	Quartz 55	Feldspar 6	Mica 3	Heavy minerals 8	Clay T	Glauconite T	Carbonate unspec. 15	Foraminifers T	Plant debris 3	Altered grains 10
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		FORAMINIFERS											_									
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	LITHOLOGIC DESCRIPTION	MUD, dark olive gray (5Y 3/2) with SILT laminae and layers, SILTS are olive gray (5Y 4/2). Whole core is	thoroughly disturbed, probably as a result of coring.	×	1, 68 3, 40		92.	Sit 20 35	ç	ition:	Ľ.			minerals 5	Clay 5 63	1 +	Parite 1	Microadules – T	Carbonate unspec. 10 15	Foraminifers T –	Calc. nannofossils T 2	4	Altered grains 15	CARBONATE BOMB DATA:	*2, 10-12 cm = 4%	
	SEGMENTARY STRUCTURES SAMPLES		*			3		_•						·		B.B.X	OGP	I		*	ŀ	¥8.	· (t)	#		_
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			Interbedded MUD, SILT, and FINE SAND, MUD is dark olive gray (5Y 3/2); SILT and FINE SAND are dominarity olive gray (5Y 4/2); SILT laminer ange from 1–10 mm	hick; thin SILT and very FINE SAND beds range from	throughout the SILT and SAND layers, with some more	disturbed/slumped horizons. Structures are delineated most	clearly by compositional variations: light-colored beds are	mainly lighte and mics. Some MUDS are very rich in very	line carbonate silt; some SANDS are very rich in volcanic			Note: numbering of core sections on this barrel sheet.										_			•									
-		CRIPTIO	d FINE S od FINE S minae ran	FINE SAP	AND lay	Structur	riations: I	ne MUDS	NDS are			ctions on		(8)	1, 91	۵		92	5	0		30	17	~	7		ç	۹.	٠.	ρ,	-	ì	ı	2
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J; 161.6–16		LITHOLOGIC DESCRIPTION	bedded MUD, gray (5Y 3/2); gray (5Y 4/2).	thin SILT ar	aghout the Sil	rbed/slumbed	ty by composit	ty lignite and r	carbonate silt;			numbering o	This core has a Section 0.	SMEAR SLIDE SUMMARY (%):			Fexture:				Composition:	Quartz	Feldspar		Heavy minerals		100	Voicanic glass	Zeolite	Carbonate unspec.	Foraminifers	Calc, nannofossits	Plant debris	Altered minerals
2 3160.5-3164.4 mbsl; 161.6-165.5 mbsf			E 6 8	£ -	_	ij	₹ 1	ĒĒ	±	qse		Ž	£	55		-16		Sand	Silt	Clay	ŏ	đ		Mica		2	3			3 (ĭ		ā.	₹
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3170.1-3179.6 mbst; 171.2-180.7 mbsf		LITHOLOGIC DESCRIPTION		Total core consists of a 4 cm ball of MUD in the Core	Catcher, Smear slide data indicate that this MOD is slifty	and rich in detrital carbonate.	SMEAR SLIDE SUMMARY (%):	23	۵	Texture:	Sand 3	Silt 27		Composition:	Quartz 8	Feldspar T	Mica	Heavy minerals T	Clay 74	Carbonate unspec. 15	Calc. nannofossils 2	Sponge spicules T	Plant debris 1
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CORE 25W CORED INTERVAL 3265.8-3285.0 mbst; 266.9-286.1 mbsf		LITHOLOGIC DESCRIPTION	Core was among avenue for a counte cooks of dark olive	Core was empty except for a couple specks of dark bive gray (SY 3/2) MUD. Entire sample given to paleontologifts.
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CORED INTERVAL 3208.2-3277.4 mbst; 209.3-228.5 mbst		LITHOLOGIC DESCRIPTION	SAND, olive gray (5Y 5/2). Sity; tine- to medium-grained	et the cup, medium: to consequence out the case, other wise extensive medium along the immediate out the download	quartz, plus carbonate, feldspar, micas, heavy minerals.	altered/coated grains, lignite, spores, and shelf debris;	very rounded and polished to subangular grains.	SMEAR SLIDE SUMMARY (%):	1, 20 2, 10	0 0	Texture:		52	Clay ↑ 0	Composition:	Quartz 41 62	Feldspar 6 8	Mica 6 T	Heavy minerals 8 5	Glauconite 1 T	Carbonate unspec. 15 10	Foraminifers T -	Plant debris 3 T	Altered grains 20 15
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CORED INTERVAL 3227.4-3246.6 mbsl; 228.5-247.7 mbsf		LITHOLORIC DESCRIPTION	MUD, dark olive gray (5Y 3.5/2) with SILT laminae and	layers. SILTS are lighter olive gray (5Y 5/2). Whole core	is thoroughly disturbed, probably as a result of coring.	CARBONATE BOMB DATA:	1, 73–75 cm = 11%			
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. 3304.2-3318.2 mbsl; 305.3-314.9 mbsf		LITHOLOGIC DESCRIPTION	CLAY, dark olive gray (5Y 3/2) and homogeneous. Section	1, 5 cm contains a discontinuous SAND layer; Section 1,	Move of the contains an olive glay (of 5/2 str. i megatives.	soared 1—2 cm agart which are probably shear planes	induced by drilling (i. e. like drilling "biscuits").	SMEAR SLIDE SUMMARY (%):		- α	Texture:	Sand 0		Clay 95	Composition:	Quartz 5	Mica T	Heavy minerals T	Clay 94	Pyrite/opaques T	Carbonate unspec. 1	Calc. nannofossils T	Sponge spicules T	Plant debris T	CARBONATE BOMB DATA:	2, 7-9 cm = 11%
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CORED INTERVAL 3313.8-3323.2 mbsl; 314.9-324.3 mbsf		LITHOLOGIC DESCRIPTION		Core Catcher contained two small chunks of dark olive	gray (b) 3/2), homogeneous CLAY. Hest of the core was empty.	SMEAR SLIDE SUMMARY (%):	23		Texture:	Send 0	Sit	Clay 97	Composition:	Quartz 3	Mica	Heavy minerals T	Clay 94	Pyrite T	Micrenadules T	Carbonate unspec. 2	Calc, nannofgstils T	Sponge spicules T
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SITE	К	TIME - ROC																				

CORED INTERVAL 3285.0-3294.6 mbst; 286.1-286.7 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark olive gray (5Y 3/2) and homogeneous with a few sit blobs and deformed fine-medium SILT/SAND layers. SILT and SAND blobs and layers are olive gray	(57.5/2). CMEAD OF IND CHMMADY (44.)	1, 50	0	Texture:	_		Clay 93	Composition:	Quartz 5	. Jar	Mica 2	Heavy minerals	in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	Micronodules	Carbonate unspec.	Calc. nannofossils 1	Sponge spicules T	Plant debris T	CARBONATE BOMB DATA:	*1, 65—67 cm = 9%
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		LITHOLOGIC DESCRIPTION		Core was empty except for a small ball of dark olive gray (5Y 3/2) MUD. Entire sample was given to the shipboard		UMMARY (%):	22	٥		0	7	93		10	-	-	86	-	. 2	-	-	-
		ГІТНОС		Core was empty e: (5Y 3/2) MUD, Er	paleontologists.	SMEAR SLIDE SUMMARY (%):			Texture:	Sand	Silt	Clay	Composition:	Quartz	Mica	Heavy minerals	Clay	Pyrite	Carbonate unspec.	Calc. nannofossils	Sponge spicules	Plant debris
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3342.0-3351.3 mbsl; 343.1-352.4 mbsf	LITHOLOGIC DESCRIPTION	MUD, very dark gray (BY 3/1) and silty. Completely uniform and homogeneous apact from rare gray (BY 5/1) SILT blets and lennes. SMEAR SLIDE SUMMARY (%): 5, 100 Texture: 5 and 1	Silt 40 Culty 59 Composition: 15 Feldspur 2 Newsymmens: 3 Olsy minerals 3 Olsy minerals 59 Olsy minerals 7 Microacoldeles T Microacoldeles 1	Cale: namedossis T Plant debris 4 Cale: namedossis 4 Cale: namedossis 4 Cale: 2004 T Plant debris 6, 90–92 cm = 12%			
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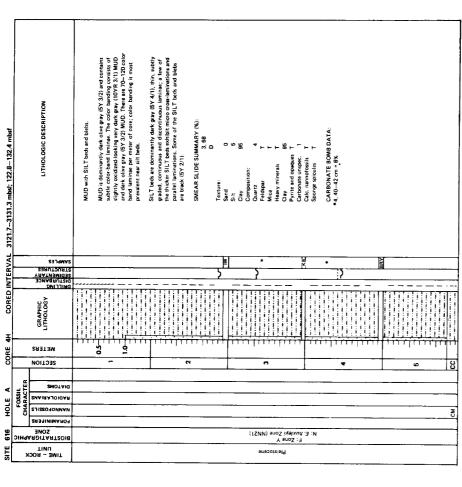
		RIPTION), homogeneous, with 5/11 SLT Terres, birbs, uferm inhology throughout. (%):		HPJ					
AL 3323.2-3332.6 mbsl; 324.3-333.7 mbsf		LITHOLOGIC DESCRIPTION	MUD, very dark grey (5Y 3/1), homogeneous, with scattered, irregular, grey (5Y 5/1) SILT terres, blebs, and discontinuous layers. Uniform lithology throughout SMEAR SLIDE SUMMARY (%): 3,8 Texture: 5,0 0	SII 60 Composition: 40 Composition: 40 Composition: 1 Meany minerals T Clay minerals T Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay	·	<u> </u>	Aug.	,		
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ž		DRILLING SEDIMENTARY SEDIMENTARY STRUCTURES								
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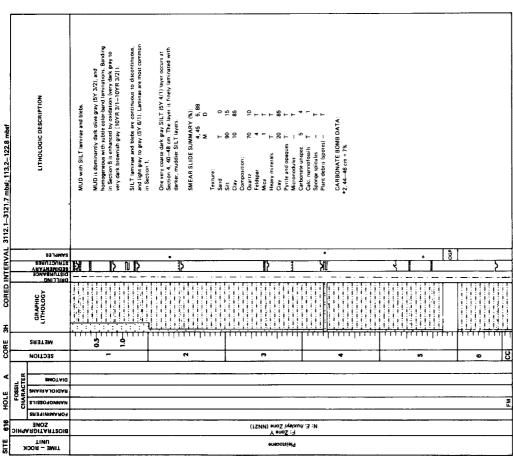
3380.63369.9 mbal; 381.7-371.0 mbaf		LITHOLOGIC DESCRIPTION	MUD, office gray to dark olive gray (5Y 4/2–5Y 3/2) and very homogeneous. Rere olive gray (5Y 5/2) SILT layers and laminae as shown, some of which are clearly	fine grained turbidites. Parts of this core are slightly silitier MUD (as shown), but this distinction is subtle.	NOTE: subtle horizontal "laminae" at regular 1–2 cm intervals throughout most of this core are likely shear	surfaces due to coring (i. e. like drilling "biscults").	SMEAR SLIDE SUMMARY (%):	2, 129 2, 132 D D	Texture:			∞,	Mica T 2	/ minerals T	Glauconite – T	⊢ !	Carbonate unspec. 10 10 Calc. nannofossils 5 4			CARBONATE BOMB DATA:	2, 47-49 cm = 9% 4 47-49 cm = 9%									
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3351.3-3360.6 mbal; 352.4-361.7 mbsf		LITHOLOGIC DESCRIPTION	Section 1-Section 2, 75 cm: MUD, dark olive grav	(5Y 2.5/2), sity, and homogeneous with rare SILT blebs,	ienses, and discontinuous laminae. Some sitts very rich in lientitie material: others rich in quartz and carbonate		Section 2, 75 cm-Section 4, base; MUD, darker olive	gray (5Y 2/2), slightly siltier than above, and homogeneous but with slightly more irregular silty horizons than above.		Core Catcher: SILTY SAND (light olive gray [5Y 5/2])	and MUD (dark olive gray [5Y 2/2]) mixed together probably by coxing disturbance.	Note: subtle horizontal "laminae" at regular 1–2 cm	intervals throughout most of the core are likely shear	surfaces due to coring (i. e. like drilling "biscuits").	SMEAR SLIDE SUMMARY (%):	1,42 1,44 1,46	O 35 35	ïe:	10	45 70	õ	sition:	Quartz 52 25 10	par 2 3	7 .	y minerals 8 5	2	-	-	spec. 10 15	- 5	nofossils T 2	, ;	R '	Altered grains 15 6	*CARBONATE BOMB DATA:	1, 95-97 cm = 12%	3, 95–97 cm = 9%
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3102.5-3112.1 mbsl; 103.6-113.2 mbsf		LITHOLOGIC DESCRIPTION	MUD with SILT blebs and laminee.	MUD is very dark gray (5Y 3/2) and homogeneous. Rare	contes of stightly dividised IMOD are very dark drownish gray (10YR 3/2).	SILT blebs and laminae are gray (5Y 8/1). Blebs are mainly	in Section 1; Isminae are most abundant in Sections 2-5	and Core Catcher. SILT laminas with well-developed mirrostructures (proceabadding internal laminas and	sourced bases) occur in Section 6.	SMEAR SLIDE SUMMARY (%):	3,60 4,26	Texture:	•	Sit 86	osition:	Quertz 3 75	Feldspar	Heavy minerals — —	Clay 93 15	Pyrite and opeques T T	Carbonate unspec. 2 8	2	Sponge spicules - T	Plant debris T T	CARBONATE BOMB DATA:	•1, 70–72 cm = 5%												
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CORED INTERVAL 3033.5-3043.1 mbsj; 34.6-44.2 mbsf		LITHOLOGIC DESCRIPTION	MUD with thin (less than 1 mm), inclined SILT laminae	and one discontinuous muddy SILT bed, MUD is color-	variegated very dark gray (5Y 3/2–10YR 3/1) and very dark brownish gray (10YR 3/2).	SMEAR SLIDE SUMMARY (%);	8.1	G	Texture:	_	Sir 40	Ciay 60	Composition:	Quartz 28	Fetdspar T	Mics	Heavy minerals 1	Clay 60	Volcanic glass 2	Carbonate unspec. 8	Catc. nannofossils T	Silicoflagellates	Plant debris (lignite) 1	
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2998.8-3006.5 mbsl; 0.0-7.7 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark olive gay (5Y 3/2) and laminated. One discontinuous SLIT layer at Core Catcher, 3 cm.					
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. 3026.7-3036.3 mbsl; 26.9-36.5 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark olive gray (5Y 3/2) with dirrupted SILT laminae. MUD is homogeneous without color-laminae.															
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3016.1-3026.7 mbsl; 17.3-26.9 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark brownish gray (10YR 322) with SLIT laminae. Discupsed lagiter olive gray (5Y 4/2–6Y 5/2) SLIT bads and blebs at Core Catcher, 12–14 cm and 20–22 cm.							
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3044,9-3064,5 mbsl; 46.1-55.7 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark oline gray (SY 3/2) and homogeneous with rat SILT innines and belos. Some of the SILT lamines are inclined finantum = 29 1.										
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CORED INTERVAL 3036.3-3044.9 mbsl; 36.5-46.1 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark clive gray (SY 3/2) and homogeneous with some irregularly-spaced, continuous, thin, clive gray (SY 5/2) SILT laminae.						
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3054.5-3064.1 mbsl; 55.7-65.3 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark olive gray (5Y 3/2) and homogeneous with raise, discontinuous SILT laminae and biebs.						
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CORED INTERVAL 3092.9-3096.4 mbsl; 94.1-97.6 mbsf		LITHOLOGIC DESCRIPTION	M.U.D. dark olive gray (5Y 3/2) and partly laminated. Rare	Debs and discontinuous aminae of SLL1.			
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CORED INTERVAL 3102.5-3106.9 mbsl; 103.7-108.1 mbsf		LITHOLOGIC DESCRIPTION	No Care Catcher sample recovered. Entire core given to Geotechnical Consortium.		
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3073.73083.3 mbst; 74.984.5 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark olive gray (5Y 3/2) and very homogeneous. Three very thin less than 1 mml SILT taminae.					
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CORED INTERVAL 3083.3-3092.9 mbst; 84.5-94.1 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark olive gray (5V 3/2) and color/laminated Infrequent SLT laminae.	
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CORED INTERVAL 3121.7-3126.1 mbsl; 122.9-127.3 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark olive gazy (5Y 3/2) and finely (1—7 mm) laminated with numerous SILT blets and several discontinuous SILT tennine. One 3 orn third, continuous, dark	olive gray (5Y 3/2), coast SLIT famina occurs at the base of the Core Catcher. The rast of the sit laminae and biebs are olive gray (5Y 4/2).				
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CORED INTERVAL 3131.3-3134.4 mbd; 132.5-135.6 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark olive gray (5Y 3/2) and finely-laminated. Common, very thin, discontinuous SILT laminas and blebs.					
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CORED INTERVAL 3112.1-3119.1 mbaj; 113.3-120.3 mbaf		LITHOLOGIC DESCRIPTION	MUD, dark olive gay (5Y 3/2). Dominantly homogeneous, with sato of very thin SILT feminations at Coe Carcher, 12 and 18 cm. SIL lamines are dark olive gray to olive gray (5Y 3/2—5Y 4/2).				
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CORED INTERVAL 3169.5-3172.4 mbst; 170.7-173.6 mbst		ытносовіс Description	SILTY SAND, very dark gray,sh brown (2,57,3/2), "dirty", and poorly sarted.					
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CORED INTERVAL 3140.9-3147.9 mbsi; 142.1-148.1 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark olive gay (5Y 3/2) and homogeneous with olive gay (5Y 4/2) SIL T bebs.			
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CORED INTERVAL 3150.5-3152.4 mbsl; 151.7-153.6 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark olive gray (SY 3/2) and feinity laminated. Core Custner, 18–75 cm is distinctly laminated with dark olive gray (SY 3/2), thin, graded, SILT/SILTY MUD lamine. Rare sit bides.	
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CORED INTERVAL 3179.0-3179.5 mbsl; 180.2-180.7 mbsf		LITHOLOGIC DESCRIPTION	No Core Carcher. Entire core dedicated for shorebased Geotennical Consortium studies.	3188.6–3193.6 mbd; 189.8–194.8 mbaf	LITHOLOGIC DESCRIPTION	MUD, dark olive grav (5Y 3/2) and homogeneous. A thin, grav (5Y 4) than accurs a food extention, 12 cm; several very thin SUT familines occur at Oxe Cartcher,	29–31 cm.			
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HOLE 617

Date Occupied: 17 October 1983, 0608 LCT

Date Departed: 18 October 1983, 1227 LCT

Time on Hole: 1 day, 6 hr.

Position (latitude; longitude): 26°41.93'N; 88°31.67'W

Water depth (sea level; corrected m, echo-sounding): 2467

Water depth (rig floor; corrected m, echo-sounding): 2477

Bottom felt (m, drill pipe): 2478.5

Penetration (m): 191.2

Number of cores: 21

Total length of cored section (m): 130.1

Total core recovered (m): 111.58

Core recovery (%): 86

Oldest sediment cored:

Depth sub-bottom (m): 191.2

Nature: clay

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): N/A

HOLE 617A

Date Occupied: 18 October 1983, 1227 LCT

Date Departed: 19 October 1983, 0555 LCT

Time on Hole: 0 day, 17 hr.

Position (latitude; longitude): 26°41.93'N; 88°31.67'W

Water depth (sea level; corrected m, echo-sounding): 2467

Water depth (rig floor; corrected m, echo-sounding): 2477

Bottom felt (m, drill pipe): 2477.5

Penetration (m): 73.9

Number of cores: 8

Total length of cored section (m): 73.9

Total core recovered (m): 56.94

Core recovery (%): 77

Oldest sediment cored: N/A (cores unsplit)

Principal results:

Site 617 was drilled in the Middle Mississippi Fan on the western levee of the youngest fan lobe's major channel. The water depth at the site is 2467 m; it is located about 159 km west of Site 616. The original site was located on R/V Conrad Line 1017 (18502). A water gun seismic line was run by the D/V Glomar Challenger from Site 616 to the proposed Site 617. Strong currents resulted in the seismic line being slightly offset from the original coordinates and the new site lies between R/V Conrad Lines 1017 and 1018.

The total depth of penetration at Hole 617 was 191.2 m and the entire coring program was completed using the Advanced Piston Corer. Recovery was exceptionally good, averaging 86% (111.6 m of core were recovered). The entire sedimentary sequence is composed of fine-grained clays and silty clays and a decision was made to obtain a geotechnical hole (Hole 617A) at the site because of the thick clay sequence. Hole 617A was successfully cored to 73.9 m sub-bottom before strong currents and winds resulted in drifting off station, bending the bumper subs and causing loss of the bottom-hole assembly. Due to time constraints, the geotechnical hole was abandoned.

The entire cored section consists of overbank levee deposits that are characterized by thin, fine-grained turbidite sequences. The upper most Holocene unit (Ericson's Zone Z) consists of a foraminiferal ooze approximately 25 cm thick (617A-1-1, 0-25 cm) which grades downward into a finely laminated turbidite-deposited clay. The base of the Holocene is at 9 m sub-bottom (617-1-6, 55 cm). The

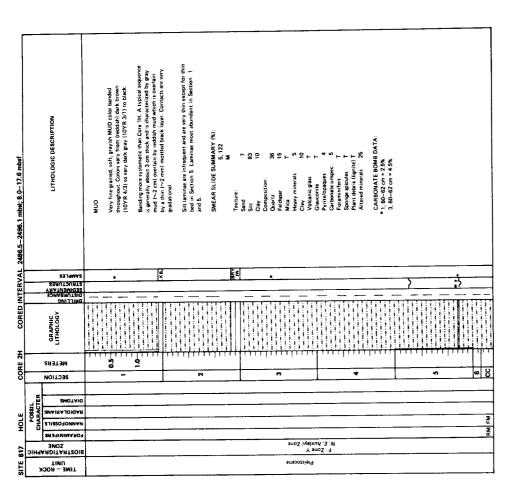
remainder of the hole was drilled in Ericson's Zone Y (late Wisconsin glacial stage).

Most of the scientific objectives were achieved at Site 617.

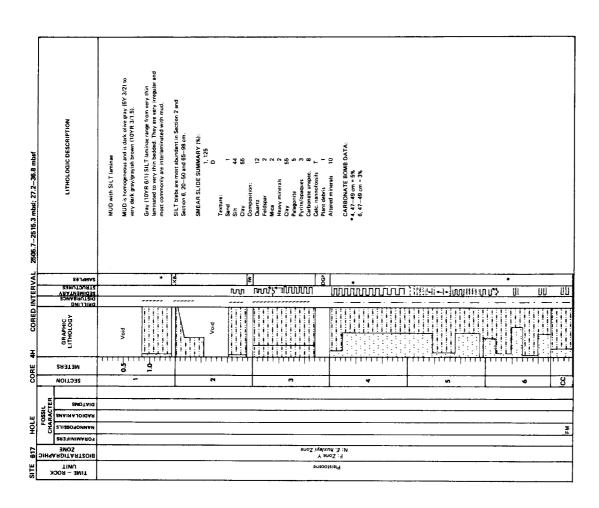
Since sands were not encountered, it was difficult to assess whether channel migration is an active process associated with the channel sinuosity. The young age of the cored sediments means that only the processes active during the waning stage of sea level rise were evaluated. It appears that during this period only fine-grained overbank levee deposition took place at the site. The principal results are:

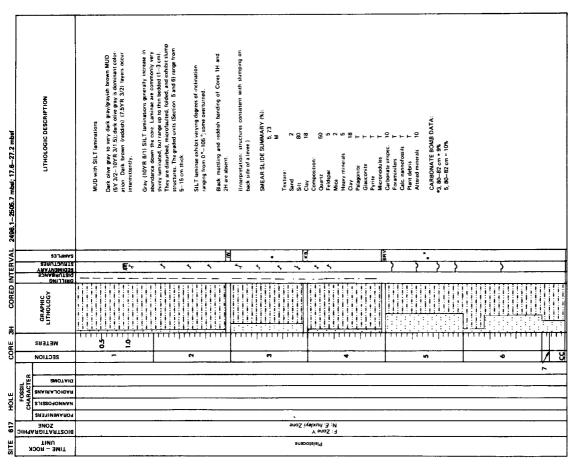
- 1) With the exception of the foraminiferal ooze at the top, the entire cored interval consists of thin-bedded, fine-grained turbidites deposited as overbank sediments on the levee. The turbidite units increase in grain size from the base of the cored section upward; this probably represents increasing channel activity. At approximately 37 m sub-bottom, the turbidite sequence begins to fine upward in response to the waning stage of fan lobe channel growth. This process culminates with the foraminiferal ooze at the top of the section.
- 2) Accumulation rates for the levee deposits are exceptionally high, with a minimum rate of 2.5 m/1000 yr. being computed for these levee deposits. Based on seismic correlation of Ericson's Zone X from Site 616 to 617, an accumulation rate of 11.9 m/1000 yr. for Zone X was computed. It appears that turbidite deposition has been nearly continuous throughout deposition of the levee deposits, as evidenced by the high accumulation rates and by the nearly total lack of

planktonic and benthic fauna in the recovered section. The Holocene accumulation rate was computed as $67~\mathrm{cm}/1000~\mathrm{yr}$.



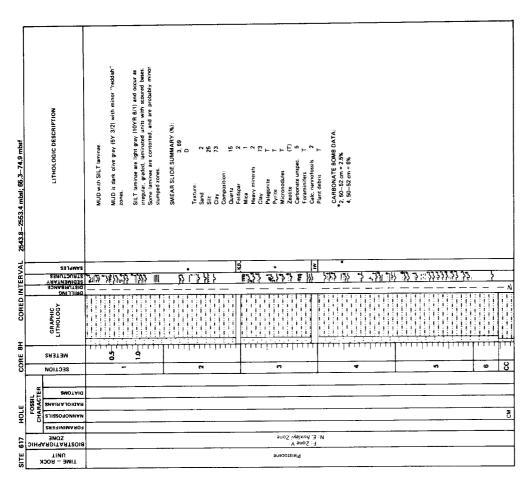
2478.5-2488.5 mbaj; 0.0-8.0 mbef		LITHOLOGIC DESCRIPTION	MUD and SILTY MUD	Very soft, gravish MUD color banded throughout. Colors vary from (reddish) dark brown (10YR 4/3) to very dark grav/gravish brown (10YR 3/1.5) to black.	Very thin sit laminae and tubular concretions occur infrequently.	(Interpretation: very fine overbank turbidites; rapid(?) sedimentation with additional "nepheloid cloud" processes. Black banding represents bioturbated pauses;	others are diagenetic.)	SMEAR SLIDE SUMMARY (%):	۵	Sand 1 0	n 96	Composition:		Mica T	99	Pyrite/opaques 1 – Micronodules – 1	1	spec. 10	Foraminiters Calc. nannofossils — T	-	Stitooffageliates – 1 Plant debaic footba	and lignite) 2 1	CARBONATE BOMB DATA:	◆4, 18-20 cm = 4%									
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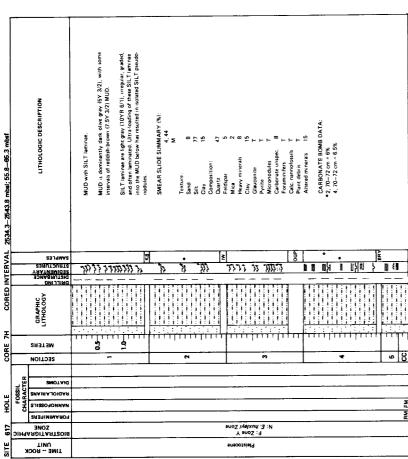




2524.8 _ 2534.3 mbal; 46.3 _ 55.8 mbaf	LITHOLOGIC DESCRIPTION	MUD with SILT laminae.	MUD is dominantly dark olive gray (5Y 3/2).	SILT laminae are light gray (10YR 6/1). They form 6—10	(with occasional SILT blebs and laminae). Laminae have	scoured bases and common thin-turbidite sedimentary	structures, Laminae in Section I and 4 are inclined. A well-developed slump fold occurs at Section 4, 80–90	æ.	Note: Section 4 is only 123 cm long. This is due to a broken note lines in Ordin is national.		SMEAR SLIDE SUMMARY (%):	3, 20 3, 27	- Sections			Composition: 12 70		ر د	m u	Clay minerals 5 2	onite	nite T	H	Micronodules T T	ate unspec. 10	Foraminifers T	Calc. nannotossiis I	Altered minerals 10 5		CARBONATE BOMB DATA:	•2, 80–82 cm = 4,5% 4, 80–82 cm = 5%			
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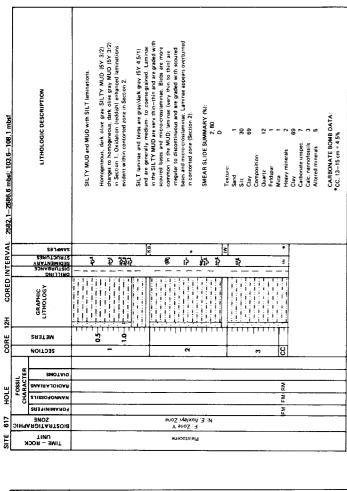
2615.3-2524.8 mbal; 36.8-46.3 mbaf	LITHOLOGIC DESCRIPTION	SILTY MUD and MUD with SILT laminae. SILTY MUD and MUD is dark olive gray (5Y 3/2). They appear at trocurelist such mud annations are apparent in contrared zone in Sections 4.	Gray (10VR BC/) SILT laminae are ringular, discontinuou, and control Laminae ange from very thin laminaed to very thin badded. The thinker laminae tend to be inter-	laminated with mud. (Interpretation: fine-grain runbidites deposited rapidly on a lever; slumping product of depositional rate.)	SMEAR SLIDE SUMMARY (%): 6, 16 M	Sand 2 Sand 2 Silt 80	ion:	Feldspar 6 Mica 3 Heavy minerals 8		Carbonate unspec. 10 Foramnifers T Calc nanofossie T	Plant debris T Altered minerals 10								
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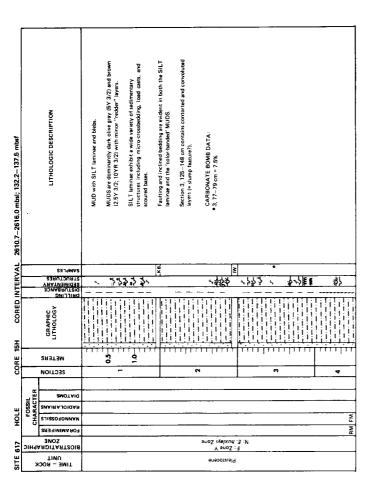
2563.0-2567.1 mbst; 84.5-88.8 mbsf	LITHOLOGIC DESCRIPTION	MUD and SILTY MUD with SILT taminas. Dark olive gray (SY 3/2) MUD charges to dark olive gray (SY 3/2) MUD Section 1, 80 cm. SILTY (SY 3/2) SILTY MUD below Section 1, 80 cm. SILTY	MUD is the dominant lithology below Section 1, 85 cm. Oxidized zones are very dark brownish grey (10YR 3/2).	SILT laminae are olive gray (5Y 4/2–5Y 5/2). Many have scoured bases, exhibit micro-crosslaminae, and appear	graded, Section 2, 0-110 cm contains only rare SILT laminae; laminae are common in Section 1 and 3.	SMEAR SLIDE SUMMARY (%):	5, 2, 6	Texture	_	Sit 20	Communities 78	Ouertz 8	Feldspar	Mica 1	Heavy minerals 4	Palaconire T	Pvrite	Micronodules T	Zeolite	Carbonate unspec. 5	Colo consideral 2	Distome T	Plant debris T	Altered minerals 3	CARBONATE BOMB DATA: CC, 3-5 cm = 6%
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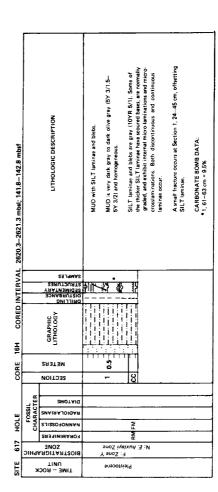
CORED INTERVAL 2563.4-2563.0 mbsl; 74.9-84.5 mbsf	LITHOLOGIC DESCRIPTION	MUD with numerous SILT laminae. MUD is dark olive gray (19 2012) SILT laminae are irregular to way frome convoluted) and durk gray to dark olive gray (19 401-20 302), and usually coarse, closing micro-consistennee, and scoured basis are common throughout the core SILT balk for classis with preserved microlaminations are present integerable. Several back of very dark grayth brown (10VR 3/1) SILTY MUD occur in Section 2. The thickest back (Section 2. 3) and (Section 2. 3) and (Section 2. 3) and (Section 2. 3) and (Section 2. 3) and (Section 2. 3) and (Section 2. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Section 3. 3) and (Sect
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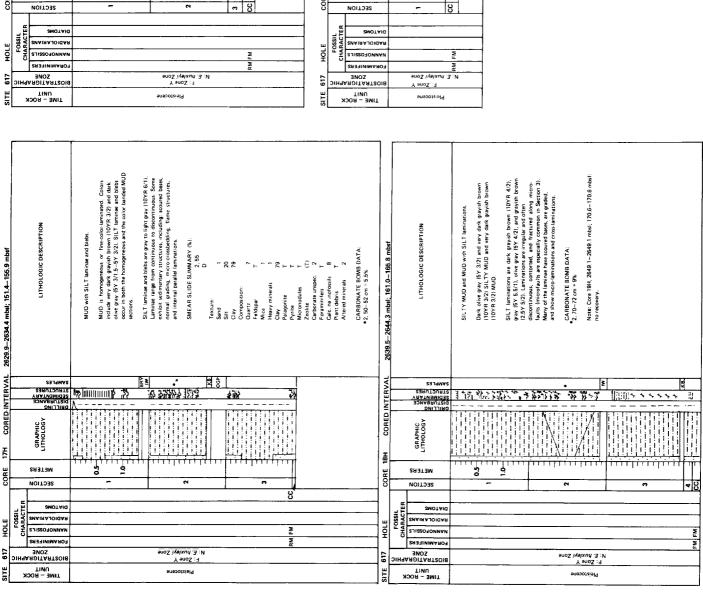
CORED INTERVAL 2591.6-2592.4 mbsl: 113.1-113.9 mbsf		LITHOLOGIC DESCRIPTION	MUD with SILT laminae.	MUD is dark olive gray (5Y 3/2), and homogeneous to faintly laminated.	SILT laminas are very thin to thin and gray (SY 5/1). Section 1, 15–35 cm consist of convoluted MUD and SILT lamina; or laminas at Section 1, 30 cm has a cocround farms christina.	NO COHE CATCHER SAMPLE RECOVERED.
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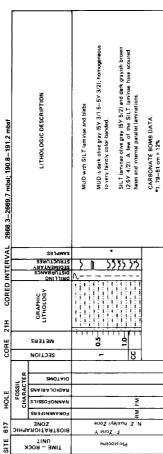
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1-102.4 mbsf	LITHOLOGIC DESCRIPTION	SILTY MUD with SILT laminae.	SILT tamines are very thin to thin (mostly less than I mm), and generally decrease infrequently downcore. They are dominantly olive gay 9(7 SIZ). Garding is evident only where a number of lamines not in rices nonther course	bases and micro-crosslaminations are common.	Angular discontinuities occur between Section 1, 50 and 70 cm. Angular unconformities at Section 1, 101 and 118 cm.	(Interpretation: sit lamines are probably very fine-grained unbidites deposited during waning period of channel development: ingular discontinuites suggest small(?) scale local sides.)	SMEAR SLIDE SUMMARY {%}: 3, 25 D		28 70	54.	- 2	erals 2 70	⊢ ⊢		Unit 05: 2	-	ofossils 4	· +-	nerals 5	CARBONATE BOMB DATA: 2, 65–67 cm ~ 5%
2572.6-2580.9 mbsl; 94.1-102.4 mbsf	5	SILTY MU	SILT tamin and general dominantly	bases and m	Angular dis 70 cm. Ang cm.	(Interpretation: si turbidites deposit development; ang scale local sildes.)	SMEAR SL	Texture: Sand	Silt	Composition: Quartz	Feldspar Mica	Heavy minerals Clay	Palagonite Purite	Micronodules	Carbonate unspec.	Foraminifers	Calc. nannofossils Diatoms	Plant debris	Altered minerals	CARBONATE BOI •2, 65–67 cm * 5%
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2801.1-2608.4 mbsl; 122.6-129.9 mbsf		LITHOLOGIC DESCRIPTION	Section 1—Section 3, 18 cm = MUD with contorted and	convoluted SILT laminae (preserved primary structures		Section 3, 18 cm—Section 5, 44 cm = MUD with regular	and irregular SILT faminae.	Section 5, 44 cm - Section 5, 84 cm × MUD with contorted	and convoluted SLLT laminae similar to those in Section	1 and 2.	Section 5, 84 cm—Core Catcher; MUD with regular and	irregular SILT laminae.		MUDS are dusky red (2.5 YR 3/2), dark olive gray (5Y 3/2),	olive gray—olive gray (5Y 3/2—5Y 5/2). (Interpretation:	slump or slide deposits separated by very fine grained	turbidites.)	(a) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	SMEAR SLIDE SUMMARY (%):		Texture	Dury Dury	Clay 10	pocition.	Output 55			Heavy minerals 8	-	onste	Glauconite	Porite	Micronodules	Carbonate inspec		California de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de	Calc. nannotossiis		Altered minerals 10		CARBONATE BOMB DATA:	*3, 19-21 cm = 9.5%				
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MUD, predominantly very dark gray (10YR 3/1), but also very dark olive gray (5Y 3/1.5). MUDS are subtly color-bands; colors separated by gradational contacts.

MUD with SILT saminations.

LITHOLOGIC DESCRIPTION

DISTURBANCE SEDIMENTARY STRUCTURES SAMPLES

GRAPHIC LITHOLOGY

METERS

CORED INTERVAL 2658.7-2662.3 mbsl; 181.2-184.8 mbsf

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SILT lamines are grayish brown to dark grayish brown (2.5.8 5/2–10YR 4.2). Rare cross-laminations are present; the lamines are broizontal or dip slightly (maximum = 20?). Microfauting is much less obvious than in the previous cores.

SMEAR SLIDE SUMMARY (%): 1, 80 D

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Texture:
Sand
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CARBONATE BOMB DATA

•2, 59-61 cm = 7%

2484.52494.1 mbsl; 7.0-16.6 mbsf		LITHOLOGIC DESCRIPTION	CORE CATCHER consists of calor-banded MUD: very dark gray (10YR 37); lauk olive gay (15Y 32); back, red, and brown. Color changes are somewhat gastational; the black immospatified vicin material occurs in both the gay and the red MUD areas.								
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2477.5-2484.5 mbsl; 0.0-7.0 mbsf		LITHOLOGIC DESCRIPTION	Section 1, 0–25 cm. olive brown (2,5Y 4/4) MARLY FORAM OOZE	Section 1, 25–150 cm and CORE CATCHER: very dark gavy (25 23.15) SILTY MIDW with color-shadis of very dark travish brown (10XR 3/2), dark travish brown (10XR 3/2), dark travish brown (10XR 3/2).	(5Y 3/2), and black, Color-bands are typically about	I om thiss, bases, where are inconsulprates a bottor- lation is especially evident in monosolphide layer; rare to absent in reddish and grayish MUDS/SILTY MUDS	Sections 2—5 given to Geotechnical Consortium for shorebased studies	SMEAR SLIDE SUMMARY (%):	all.,	ture:	Sir 50 Clay 50	ition:	Quartz 5 Mica 3	, minerals	Clay 73	Micronodules T	Carbonate unspec. 5	Foraminiters T Calc. nannofossils T	Sponge spicules T	Plant debris T	Attered minerals 10							
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2494.12503.7 mbsl; 16.6-26.2 mbsf		LITHOLOGIC DESCRIPTION	Core Catcher, O-8 cm: homogeneous, very dark gray (10YR3/1) MUD.	Core Carcher, 8–27 cm. very dark gany (10YR 3/1) MUD with irregular 5LL Delets and laminae. Laminae are very deformed due to drilling disturbance.						
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2522 9-2532.4 mbsl; 45.4-54.9 mbsf		LITHOLOGIC DESCRIPTION	Core Carcher given to shipboard paleontologists. Rest of core unspit for shorebased Geotechnical Consortium studies.						
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2513.3-2522.9 mbst; 35.8-45.4 mbsf		LITHOLOGIC DESCRIPTION	MUD with SILT laminae	MUD is dominantly dark olive gray (5Y 3/2) with thin, minor zones of very dark grayish brown (10YR 3/2).	SILT laminae are olive gray (5Y 5/2) and grayish brown (2.5Y 5/2), and are only very poorly graded They exhibit	indistinct micro-ripples.	Note: this core was stuck in the core barrel, and was very deformed during the extrusion process. Observed micro-	faults and contorted silt laminae are likely due to core	disturbance.	SMEAR SLIDE SUMMARY (%):	1,87			O Press	Clay 10	Composition:	Quartz 75	lar.		y minerals	Clay 9	Carbonate unspec 5	Calc. nannofossils T
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SITE 617		TIME - ROC														_					_	_	

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2542.9-2552.4 mbst; 64.4-73.9 mbsf		LITHOLOGIC DESCRIPTION	Core Carcher sample consists of wary dark gray (10VR 3/1) M/UD with SILT (amines and blabs. A disturbed, 1–2 cm thick SILT (eyer occurs at CC, 11–12 cm.					
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2532,4-2542.9 mbat; 54.9-64,4 mbaf		LITHOLOGIC DESCRIPTION	Core Catcher sample consists of very dark gray (10/YR 3/1) MUD with SILT termines and belat. SILT termines have scoured bases, cross-lamination, and parallel termination. The entire section is overturined.			
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HOLE 618

Date Occupied: 19 October 1983, 2153 LCT

Date Departed: 21 October 1983, 0135 LCT

Time on Hole: 1 day, 3 hr.

Position (latitude; longitude): 27°00.68'N; 91°15.73'W

Water depth (sea level; corrected m, echo-sounding): 2412.4

Water depth (rig floor; corrected m, echo-sounding): 2422.4

Bottom felt (m, drill pipe): 2422.4

Penetration (m): 92.5

Number of cores: 11

Total length of cored section (m): 78.0

Total core recovered (m): 67.47

Core recovery (%): 87

Oldest sediment cored:

Depth sub-bottom (m): 92.5

Nature: gassy clay

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): N/A

HOLE 618A

Date Occupied: 21 October 1983, 0135 LCT

Date Departed: 21 October 1983, 1211 LCT

Time on Hole: 10 hr., 36 min.

Position (latitude; longitude): 27°00.68'N; 91°15.73'W

Water depth (sea level; corrected m, echo-sounding): 2412.4

Water depth (rig floor; corrected m, echo-sounding): 2422.4

Bottom felt (m, drill pipe): 2422.4

Penetration (m): 47.6

Number of cores: 3

Total length of cored section (m): 28.7

Total core recovered (m): 18.52

Core recovery (%): 65

Oldest sediment cored:

Depth sub-bottom (m): 47.6

Nature: gassy clay

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): N/A

Principal Results:

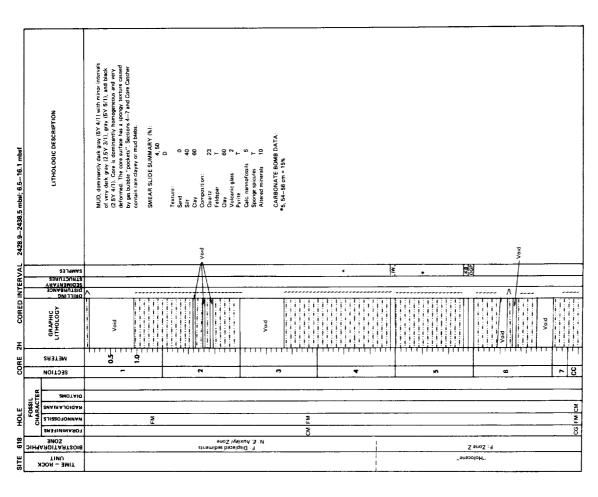
Site 618 was located near the center of the northern subbasin of Orca Basin, an anoxic intraslope basin containing a 200 m brine water column overlying the basin sediments. The hole was cored to a depth of 92.5 m. Gravity and piston cores from previous cruises indicated the presence of a black anoxic mud in the near surface sediments. The first two cores obtained were composed of gray clays containing a reworked Pliocene fauna. The sub-bottom profiler record showed a 15 m relief seafloor high in the center of the basin, suggesting a former mass movement. Immediately below the displaced gray clays, a zone of dark black mud was cored and foraminifers indicated a Holocene age.

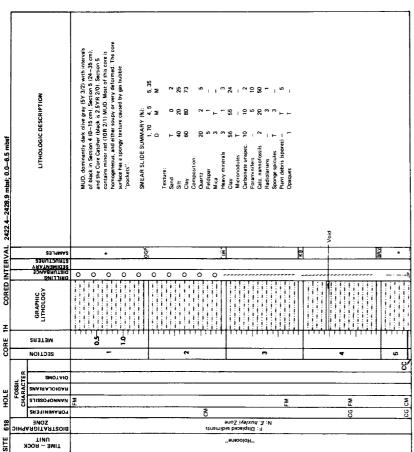
It appears that this uppermost section represents a Holocene mass movement deposit derived from the adjacent steep slopes of the diapir. The remainder of the core consisted of gray clays with thin alternating black clays which thinned in thickness with depth. Ericson's Zone Y (late Wisconsin glacial) contained sparse fauna and much of the section contained abundant reworked fauna. The presence of the displaced fauna, together with the high sedimentation rate, made this site extremely disappointing in that the objective of establishing a good biostratigraphic column could not be attained. The displaced sediment that interrupted the pelagic-hemipelagic sedimentation is probably related to active movement of the salt diapirs that rim the basin. Salt movement is controlled to a major degree by the large sediment loading that took place during the Pleistocene. The major Pleistocene depocenter is located immediately

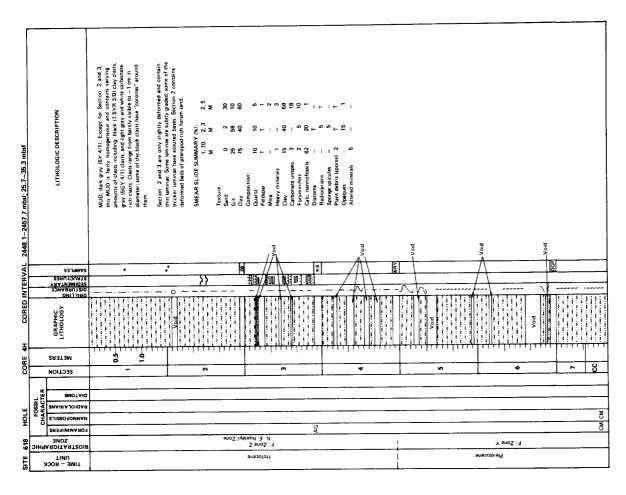
to the east and the diapirs in this region display many features that suggest active movement in the late Pleistocene.

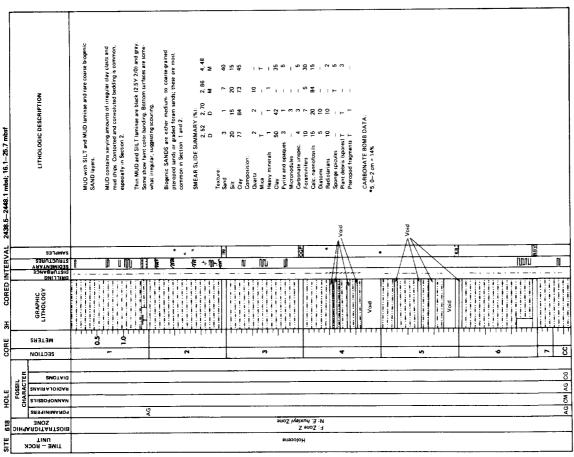
The principal results were:

- 1) Biogenic methane was encountered throughout the entire cored interval, ranging from 17% at the surface to 98% at 85 m depth.
- 2) Thin zones of white crystalline gas hydrate were cored in the upper sediments, between 25 and 47 m sub-bottom.
- 3) The presence of gas thoroughly disturbed the cores, masking the sedimentary structures and precluding an assessment of the sediment transport processes.
- 4) Interstitial water salinity decreased from 230 ppt in the surface core to an average of 55 ppt at 30 m penetration and then remained rather constant to total depth.
- 5) The Holocene accumulation rate was computed at 158.3 cm/1000 yr. The cored section bottomed in Ericson's Zone Y (late Wisconsin glacial) and the minimum accumulation rate computed was 83.6 cm/1000 yr. The high sedimentation rates, primarily as a result of localized mass movement processes, resulted in the site being very poor for establishing a stratigraphic chronology.





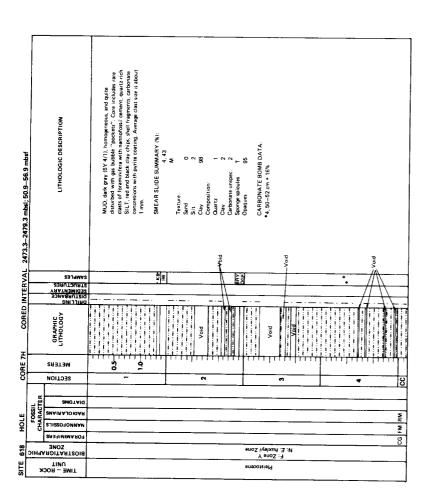




SITE 61	618	HOLE	ᆈ		-	CORE	- [6H CORED	INTER	Ž	CORED INTERVAL 2467.3-2473.3 mbsl; 44.9-50.9 mbsf
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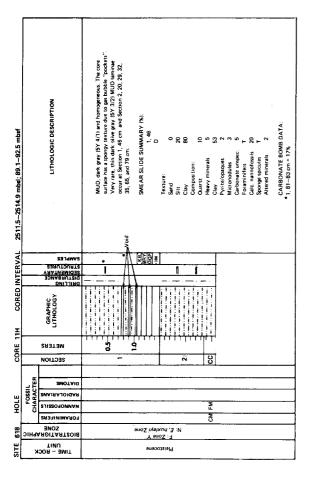
2457 7.—2467.3 mbst; 35.3—44.9 mbsf	LITHOLOGIC DESCRIPTION	MUD dark gray (SY 4/1), moderately to enty deformed, and dominantly homogeneous. All sectors contain small data to claphase root state with froat motient. I mud chips, and still belab. These fasts are mostly, 42 mm in district States stated by the core suffice has a spongy takture caused by gas bubble forms. And proposition: SMEAR SLIDE SUMMARY (%): SMEAR SLIDE SUMMARY (%): SMEAR SLIDE SUMMARY (%): Sand Composition: Composition: Commonists: Texture: Sand Commonists: Texture: Sand Commonists: Commonists: (+ spores) 25 CARBONATE BOMB DATA: *5, 82—84 cm = 14%.
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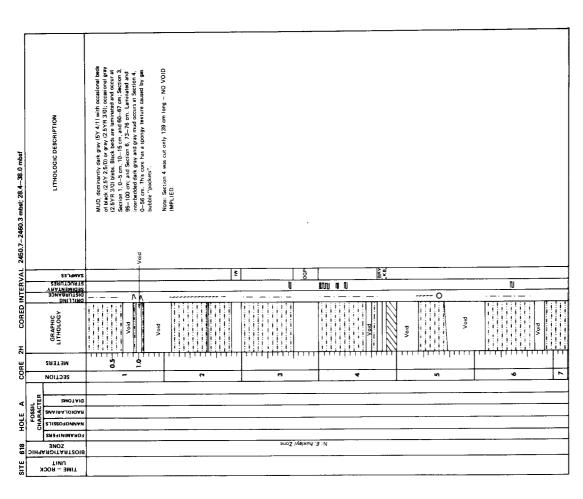
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2479.3-2485.9 mbsl; 56.9-63.5 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark gray (5Y 4/1), homogeneou, and quite disturbed with gas bubble "pockets". Section 1 and 2	contain extensive soupy areas. Core includes clasts similar to those described in Core 7H.	SMEAR SLIDE SUMMARY (%);	3,100 4,28		Sand 20 25		osition:	Quartz 55 49	ı -	Heavy minerals 5 10	15	<u>, </u>	ın ş	2 +	Altered minutes 10 15	2	CARBONATE BOMB DATA:	4, 80–82 cm = 14%														
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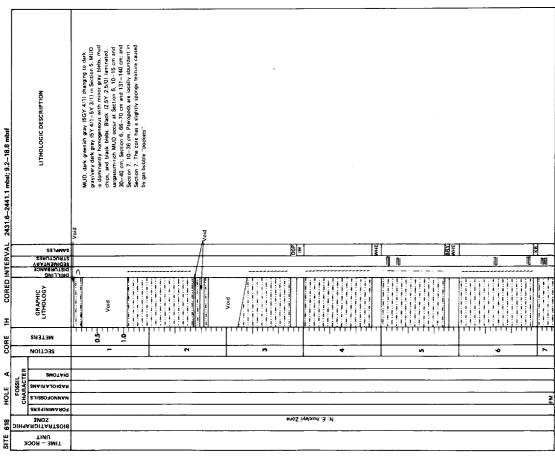


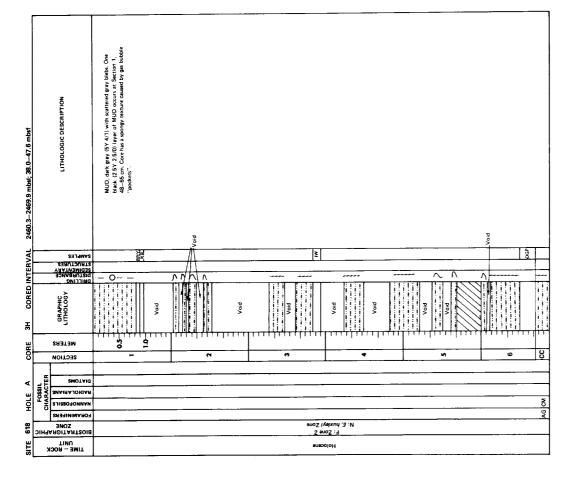
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2492.3-2496.8 mbsl; 69.9-74.4 mbsf		LITHOLOGIC DESCRIPTION		MUD, dark gray (5Y 4/1), homogeneous, and quite	disturbed with gas bubble "pockets" that makes the core	surface have a spongy texture. Small, common white, gray,	. Void and black blabs scattered throughout the core.		SMEAR SLIDE SUMMARY (%):	2, 32	a	Texture:	Send 0		Clay 70	Composition:	Quartz 15	-Void Clay 65	Micronodules 5	Carbonate unspec. 5	Calc. nannofossits 10		CARBONATE BOMB DATA:	*1, 10-12 cm * 14%			
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HOLE 619

Date Occupied: 21 October 1983, 1359 LCT

Date Departed: 22 October 1983, 2137 LCT

Time on Hole: 1 day, 8 hr.

Position (latitude; longitude): 27°11.61'N; 91°24.54'W

Water depth (sea level; corrected m, echo-sounding): 2259

Water depth (rig floor; corrected m, echo-sounding): 2269

Bottom felt (m, drill pipe): 2274.0

Penetration (m): 208.7

Number of cores: 25

Total length of cored section (m): 134.4

Total core recovered (m): 111.88

Core recovery (%): 83

Oldest sediment cored:

Depth sub-bottom (m): 208.7

Nature: clay

Age: Pleistocene (Ericson Zone W)

Measured velocity (km/s): N/A

HOLE 619A

Date Occupied: 22 October 1983, 2137 LCT

Date Departed: 23 October 1983, 0415 LCT

Time on Hole: 0 day, 7 hr.

Position (latitude; longitude): 27°11.61'N; 91°24.54'W

Water depth (sea level; corrected m, echo-sounding): 2259

Water depth (rig floor; corrected m, echo-sounding): 2269

Bottom felt (m, drill pipe): 2272.7

Penetration (m): 5.3

Number of cores: 1

Total length of cored section (m): 5.3

Total core recovered (m): 5.3

Core recovery (%): 100

Oldest sediment cored: N/A (mudline core only)

Principal results:

Site 619 is located in Pigmy Basin, a northeast-southwest trending intraslope basin approximately 206 km south of the Louisiana shoreline. The basin has a flat seafloor at a water depth of 2260 m and steeply sloping walls formed by the salt diapirs that rise approximately 700 m. Seismically the basin fill shows a number of acoustical sequences; each starts with a transparent or semitransparent zone, overlain by a zone with discontinuous, more or less parallel reflectors, and topped by distinct, parallel continuous reflectors. This sequence is repeated numerous times, with varying thicknesses. Unconformities are often apparent at the lower boundary of a sequence, possibly indicating differential uplift of the adjacent salt diapirs.

The principal results of the drilling at this site were:

- 1) The fill of the basin in late Pleistocene times has been primarily by pelagic and hemipelagic sedimentation with only minor interruptions by localized mass-movement deposits.
- 2) In the deposits laid down during the glacial stages (low sea level stands), especially during the early Wisconsin glacial (Ericson's Zone W), a few thin coarse-grained turbidite sequences were present. Fine-grained mud turbidites are common throughout the section cored.
- 3) A well-preserved and rather complete biostratigraphic section of the Wisconsin was cored. Ericson's Zones Z, Y, X, and W were penetrated. Computed accumulation rates were 83.3 cm/1000 yr. for the Holocene (Zone Z, 10 m thick), 186.3 cm/1000 yr. for the late

Wisconsin glacial (Zone Y, 136 m thick), 23.8 cm/1000 yr. for the Wisconsin interstadial (Zone X, 10 m thick) and a minimum of 76.5 cm/1000 yr. for the early Wisconsin glacial (Zone W, 52 m thick) as this unit was not completely penetrated.

- 4) The predominantly clayey section contained an abundance of bathyal benthic foraminifers except in the lower part of Zone W (early Wisconsin glacial) which contained displaced shallow-water nearshore benthic fauna.
- 5) The cored section showed a minimum of locally displaced sediments possibly indicating that diapiric movement has not been extremely active during the late Wisconsin.
- 6) A prominent ash layer was cored at a sub-bottom depth of 141.5 m and coincided with the top of Ericson's Zone X. An ash horizon in a similar stratigraphic position, the Y-8 ash (Kennett and Huddlestun, 1972), has been dated at 84,000 yr. before present. Directly below the ash layer was a dark black highly burrowed clay, 1.0 m thick, that contained abundant pyrite, indicating a time of highly reducing conditions.

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CORED INTERVAL 2273.0-2274.0 mbsl; 0.0-1.0 mbsf		LITHOLOGIC DESCRIPTION		Recovered 1 cm of MJD) in the Core Carchery only, rest of core empty. Entire sample given to shipboard pateoniologists.	
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2274.0–2283.5 mbai; 1.0–10.5 mbsf	LITHOLOGIC DESCRIPTION	MUD. dark gray (57 4/1). Dominantly homogeneous with minor color bands of gray (1074 4/1), and below from (1078 3/2-1078 4/2), and olive gray (57 4/2). Bottom: below minor in Sections 1–3; lest common below. Thin sits and from sends occur in Sections 1, 2, and 3, some are graded and have counted bases. Course, graded sandy mud occurs in Section 5.	Void SMEAR SLIDE SUMMARY (%): 1,68 1,80 1,112 5,10	, c		position:	Ouartz 20 15 12 5 Feldspar – 3 – –	. 3	65 50	2		assils 10 5 35	F		- 2										-										
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2293.2-2302.9 mbsl; 20.2-29.9 mbsf	LITHOLOGIC DESCRIPTION	This core consists primarily of dark gray (57 4/1), homogeneous MUD, except an noted below. Section 5, 21–56 or consists of dark gray (57 4/1), structuretes SANDY MUD. Section 5, 56 or Section 6, 34 cm consist of mortled to be amounted, dark gray (57 4/1) (MUD) with reddish and black streaks and layers and some gavy mud balls. Laminations are regular, irregular, or inclined. SME AR SLIDE SUMMARY (%): 5, 38 (6, 20) Texture: Sind 2 0 Texture: Sind 2 0 Texture: Sind 2 0 Clay Clay Counts in 10 15 Multiple 1 1 - 1 Clay Counts in 10 15 Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay Clay
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2283.5-2293.2 mbal; 10.5-20.2 mbsf	LITHOLOGIC DESCRIPTION	Section 1—Section 3, 132 cm; dark gav, 6y 4/1) benogeneou, MUD. Interhedded with SILTY MUD and externeity blouthcated 1 Section 1, 1026—133 cm. Interhedded with gazed SANDs one stabilities 8 bound T_action 3, 132 cm—Section 3, 102—132 cm. Section 3, 132 cm—Section 1, 102—132 cm. Section 6 and Core Catcher: homogeneous, dark gav (6y 4/1) MUD. Section 6 and Core Catcher: homogeneous, dark gav (6y 4/1) MUD. Sand Sand Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Catcheric glass — 1 Cat	
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2312.6-2322.3 mbsl; 39.6-49.3 mbsf		LITHOLOGIC DESCRIPTION	Dark gray (BY 4/1) MUD. Laminated in upper part of core and becoming more homogeneous devenous. Laminations are dominantly black MUD; and sarge from ~ 2 mm to 3 or thick leverage <1 cm). Core micludes raw, very thin SIT and SAND learnings as indicated in "Graphic Lithology" column. SMEAR SLIDE SUMMARY (%):	3.90 Texture: Sand Sand One Camportion: Camportion: Date: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camportion: Camport	Calle, Minnerdali o Altreed minnerdali 10 Opaques 5 CABONATE BOMB DATA:			
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2302.92312.6 mbsl; 29.9-39.6 mbsf		LITHOLOGIC DESCRIPTION	Section 1—Section 2, 70 cm; cark gay (EY 4/1), homogeneou MIO with color band seminations in the follower 24 cm. Four cm hick SAND layer occurs at Section 1, 12—126 cm. Laminations are baset (2.5Y R 2.50). Section 3, 70 cm.—Section 4, 130 cm; cark olive gay (SY 2.37) MIO Main't homogeneous with occasional interbeds of dark gray (SY 4/1) mud especially near the base.	ion 5 and Core Catcher: nated with very dark gra- ish brown (2.5Y 3/2) MU :AR SLIDE SUMMARY (D O oure: 0	Cary Cary Composition: Charitz Charitz Chewy minerals T T Choosing ass Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc mannofostis Calc ma	Altered minerals T 1 CARBONATE BOMB DATA: * 3.96 cm = 15%	
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CORED INTERVAL 2332.0-2341.7 mbal: 59.0-68.7 mbaf		LITHOLOGIC DESCRIPTION	MUD, dark gay (5Y 4/1) and homogeneous. Laminated with black (2.5.Y 2.5./1) layers of MUD in Section 1 (90–120 cm). Section 4 (83–130 cm). Section 6, and the Care Carbier.	Texture: D Sind Sind Silve Sind Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silve Silv	ules t unspec. nofossils	Pain debis (spore) T Altered mises 13 Obsigner 5 CARBONATE BOMB DATA: • 3, 36 cm = 15%			
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CORED INTERVAL 2322.3-2332.0 mbsl; 49.3-59.0 mbsf		LITHOLOGIC DESCRIPTION	Dark gray (5Y 4/1) MUD; homogeneous and termnated interasts as indicated in "Sedimentury Stuckures" column. Lamines are dominantly basek (5Y 2/3); MUD, with minor very dark graysh brown 1245/32/31 MUD bast in Section 5 and rare SILT and SAND ieminae in Sections 2, 3, and 4. SMEAR SLIDE SUMMARY (%): 5, 56	Texture: Sand Sand Sin Sit Clay Clay Chargostion: Chargostion: Feldspar T Clay Clay Clay Clay Clay Clay Clay Clay			
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	SRIPTION	Dark gray (10YR 4/1), homogeneous MUD becoming propessively more luminated downcore. Subter scalar dark brown (75 KR 3/2), Leminate as black (16 Y 26 1), and dark brown (75 KR 3/2), Leminate are black (16 Y 26 1), and the gray (17 YR 3/1); location of the MUD laminae are indested by \$1/1); location of the MUD laminae are indested in (16 YR 3/1); location of the MUD laminae, Section 2 and 3 include rare, any thin SLIT laminae. Section 2 and 3 include rare, any thin SLIT laminae, Section 2 and 3 include rare, any thin SLIT laminae, and bulging and capa concase benefiting of black liminae, and bulging and capa	(%):		
2351.4-2357.5 mbsl; 78.4-84.5 mbsf	LITHOLOGIC DE SCRIPTION	Dark gray (10VR 4/1), hos progressively more luminate changes in MUD motibude we change in MUD motibude was the grayth brown (10Y 3/1); location of the M the "Sedimentary Structure include rate with his RIT.	an molecule than this some gas, SMEAR SLIDE SUMMARY (%): Texture: Sian Cuy Cuy Cuy Cuy Cuy Cuy Cuy Cu	Fridgarf Mica Mica Meaw minersis 2 Cay Cay Cay Carbonate ungec. 10 Carbonate ungec. 11 Cate. namofostis 1 Altered minerals 12 CASBONATE BOMB DATA:	
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SITE 6	TIME – BOCK UNIT		aneoots		

68.7-73.2 mbsf		LITHOLOGIC DESCRIPTION	MUD, dark gray (6Y 4/1) and regularly laminated Laminated Laminated Laminated mostly of very dark gray and BLACK (10x val) has 10x 521) MUD with pomerhat graduloral (10x val) has 10x 521) MUD with pomerhat graduloral (10x val) has 20x 521 MUD with pomerhat graduloral (10x val) has 20x cm, and Section 3, 24 cm. SMEAR SLIDE SUMMARY (%): 2	
AL 2341.7-2346.2 mbsl; 68.7-73.2 mbsf		S-PMb E E	MUD, da tions are tions are tions are tions are tions are tions are tions are tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions tions	
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SITE	Х	TIME - ROC	Pleistocane	

2370.1-2375.1 mbai; 97.6-102.1 mbsf		LITHOLOGIC DESCRIPTION	Entire core consists of homogeneous, dark gray (10YR 4/1)	MUD. Section 3, 40-90 cm contains some gas escape	structures which make the core surface have a somewhat	spongy texture.		CARBONATE BOMB DATA:	*3, 36 cm = 16%																									
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CORED INTERVAL 2381.0-2386.1 mbsl; 88.0-93.1 mbsf		LITHOLOGIC DESCRIPTION	MUD. color-banded/laminated or homogeneous. Primarily	dark gray (10YR 4/1) changing to primarily dark olive gray	(5Y 3/2) in Section 4. Color bands and laminae are very	dark gray (5Y 3/1) to black. Section 2 and 3 contain rare,	yery thin SILT laminae.	SMEAB SLIDE SUMMABY (%):	4.25	. 0	Texture:	Sand 0	Sint 15	Clay 85	sition:	Quartz 13	minerals	Clay 80	Carbonate unspec.	Foraminiters	Calc. nannofossits Z	Plant debris	Altered minerals 3	CARBONATE BOMB DATA:	•3 36 cm = 22%								
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CORED INTERVAL 2389.8-2392.2 mbsl; 116.8-119.2 mbsf		LITHOLOGIC DESCRIPTION	MUD, homogeneous, dark gay (10YR 4/1) changing to	11-15 cm. Core Catcher is poorly laminated with black	layers,	SMEAR SLIDE SUMMARY (%):	1, 75	a	Texture:	_	Sit 15		Composition:	Quartz 9	Heavy minerals T	Clay 60	Volcanic glass T		Calc. nannofossils 25	Plant debris T	Altered minerals 1	CARRONATE BOMB DATA	1, 36 cm = 18%
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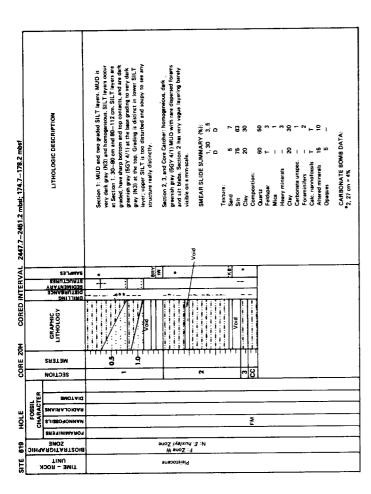
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2389.42403.5 mbst: 126.4130.5 mbsf		LITHOLOGIC DESCRIPTION	MUD, dominantly dark gray (5Y 4/1) with color-bands,	mottles, and laminae of dark olive gray to olive gray	(5Y 4/2-5Y 3/2), dark grayish brown (10YR 4/2), and	black. Section 1 and 2 are bioturbated; Section 3 appears	homogeneous. SILT laminae are common in Section 1.	and 2, often with indistinct grading and scoured bases,	SMEAB SLIDE SLIMMABY		7e '. N	Towns	Sand	•	Clay 50	Composition:	Quartz 20	Heavy minerals 2	Clay 36	Volcanic glass 10	Pyrite and opaques 2	Carbonate unspec. 20			CARBONATE BOMB DATA:	3, 36 cm = 11%		
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2380.2-2386.8 mbst; 107.2-113.8 mbsf	PILHOLOGIC DESCRIPTION	MUD with one interval of SANDY MUD. MUD by it dominantly dark gay (FY 47) with mottles and color banks of oliving gay (FY 47), with mottles and color banks of oliving gay (FY 47), with mottles and dark gay (FY 47), with mottles and sake gay (FY 47), why dark gay (FY 47). FY 25/1, MUD anges from homogeneous to extensively burrowed and methal glaciutaking burrows typically 0.5–1.0 cm nasimum dimension. An interval of dark gay (FY 47), massive SANDY MUD occurs at Section 4, 70–80 cm. A few, folded thin lamme of FORAM SANDS occur at Section 4, 70–80 cm. SMEAR SLIDE SUMMARY (%): D M	Skind 0 2 Skind 0 0 2 Clay Clay Composition: 21 20 Heavy minerals: 21 20 Heavy minerals: 1 1 Clay y minerals: 63 61 Volutain: glass: 6 - 1 Cyrytes and opaques: 1 10 Cyrytes and opaques: 1 10 Cyrytes and opaques: 1 5 General mineries: 1 5 General mineries: 1 5 Special gradies: 1 7 Special gradies: 1 7 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Affered mineries: 1 - 1 Aff
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SITE	TIME - ROCK		aneoozeiel9

LITHOLOGIC DESCRIPTION		Section 1: MUD, black (7.5 Y R. 2/0) grading to dark gray	(5Y 4/1) at 100 cm. Intensely bioturbated, homogeneous	with tiny blebs of foram sand and common dispersed	forams,		Section 2: MUD, dark greenish gray (5GY 4/1) with silty	and sandy blebs and dispersed forams. The amount of	coarse-grained blebs decreases upsection.		Section 3 and 4: MUD with reworked mud clasts. MUD	is variegated in color, principally dark greenish gray	(5GY 4/1) with minor greenish gray (5GY 5/1), dark	gray (5Y 4/1), and gray (5Y 5/1). Bioturbated throughout;	typical burrows are up to 2 cm in diameter. Section 3, 30	cm—Section 4, 35 cm contains reworked clay clasts and	silt lenges. Whole sequence fines upward: maximum clast	size at base is ~7 cm.		Ξ	84	Σ Σ	ë	8	SIT 55 45	9	ition:	21	Jar 2		minerals 6	Clay 10 15	Volcanic glass – T	Glauconite – T	Pyrite and opaques 4 -	Carbonate unspec. 30 15	20	. g siis	Plant debris – 33	Altered minerals - 5
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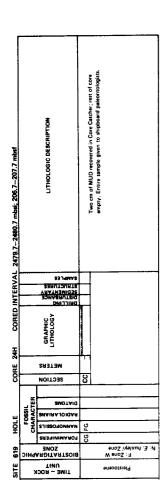
CORED INTERVAL 2428.4-2431.4 mbsi; 155.4-158.4 mbsf		LITHOLOGIC DESCRIPTION	MUD with minor SILT layers. MUD is very dark greenish gray (BGY 3/1) grading to dark greening any (BGY 4/1) at State on 1, 3 cm. Blourbation and dispersed locans are area. Section 1, 46-77 cm consists of a slightly state interval of 1000 than the rest of the core; the gain is a generally fines upward if new Sertion 1, 77 cm. Several SILT layers occur at Section 1, 82-77 cm. They are graded and thin upward as a unit. CARBONATE BOMB DATA.	
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T141.8 mbsf		LITHOLOGIC DESCRIPTION	MID with St. T laminas and ASH bases		MUD is dominantly dark greenish gray (5GY 4/1) and greenish gray (5GY 5/1). Bioturbation common, especially in Section 1.	The City of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of Company of	and 2. They are thin, have scoured bases, and appear to	graded.	SAND bed occurs at Section 4, 20-30 cm. It is graded and	has well-developed parallet-taminae.	Two ASH layers occur in the Core Catcher.	SMEAR SLIDE SUMMARY (%):	87 3, 10	№	4		0 22 01		40 10 1			-	1 1	1	spec 3 -	ഹ	assils - 13 -	⊢ ·	10 4 = 10 10 10 10 10 10 10 10 10 10 10 10 10		CARBONATE BOMB DATA: 3, 90 cm = 6%
IVAL 2409.0-2414.8 mbsl: 136.0-141.8 mbsf	1	S3 Tawy's			MUD is dom greenish gray in Section 1.	F 110 44F		KB. be normally-graded	SAND bed o	has well-deve	Two ASH Is	* SMEARSLI			Texture:	*	Clay	Composition	Quartz	Feldspar	Mica Heavy minerals	Clay	Volcanic glass	Micronodules			Void Calc, nannofossils	Plant debris (spores)	Opagues	WHE	* CARBONATE *3,90 cm = 6%
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CORED INTERVAL 2457.3-2460.3 mbai; 184.3-187.3 mbai		LITHOLOGIC DESCRIPTION		Only a handful of gray MUD was recovered in this core.		SMEAR SLIDE SUMMARY (%):	8	•	Texture:	Sand T	Sit 15	Clay 85	Composition:	Quartz 10	Mica 2	minerafs	Clay 73	Pyrite and opaques 1	Carbonate unspec. 2	Foraminifers 1	Calc. nannofossils 10	Sponge spicules T	Plant debris (spores) T
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CORED INTERVAL 2438.1-2442.1 mbal; 166.1-169.1 mbsf		LITHOLOGIC DESCRIPTION	MUD with several SILT and SAND laminae and layers.	MUD, very dark greenish gray (5GY 3/1) in Section 1	and 2 and the Core Catcher; Section 3, 052 cm is dark	gray (bY 4/1); Section 3, b2—80 cm is dark greenish gray (5GY 4/1). Bioturbation is rare. Section 1 contains	3 soupy or washed out zones at 0–5 cm, 18–30 cm, and 96–105 cm that may have been hydrates.	Section 1 contains several very thin SILT lamines at 87–90 cm. Section 2 and 3 contain several graded SILT or SAND with scoured bases. SAND layer in Section 3 exhibits	Bouma T _{ame} sequence.	SMEAR SLIDE SUMMARY (%): 3, 24	Taxture		Clay 3	Composition: Quartz 24		Heavy minerals 3 Clay	Pyrite and opaques 3	Micronodules τ Carbonate unspec. 45
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. 207.7—208.7 mbsf		LITHOLOGIC DESCRIPTION	MUD, very dark gray (N3) from Section 1, 0–15 cm and in the Coop Cambra: want dade near Mark	(5Y 2.5/1) at Section 1, 15-52 cm. All color variations	gradational. MUD is homogeneous, with 1 very thin disconstructions SIRT laminae at Section 1, 25 cm and	ges cavities at Section 1, 45–48 cm.	SMEAR SLIDE SUMMARY (%):	04°C	Texture:		35		Composition:	Quartz 30		Foraminifers T	Calc. nannofossils 3	Altered minerals 7
CORED INTERVAL 2480.7-2481.7 mbsl; 207.7-208.7 mbsf			OW.	Y	8.7	ä	WS		- L	Sand	aris Sar	Clay	Š	ð	Clay	For	·	¥
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CORED INTERVAL 2480.3-2463.3 mbat; 187.3-190.3 mbsf	LITHOLOGIC DESCRIPTION	Highly-deformed MUD and SILT laminae.	Dark greenish grey (5GY 4/1) MUD with SILT laminee and dispersed forans, Abundance of SILT laminee	decreases downcore. This core contains no preserved original sedimentary structures; material is all FLOW-IN.	SMEAR SLIDE SUMMARY (%):	2.40	Texture:		Sit 20	sition:		, minerals	Clay 75	Voicanic glass	a jie	Plant debris (spores) 1	Altered minerals 5	AT AND THE PARTY OF	CARBUNALE BOMB DATA: 2 , 50 cm = 11%
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CORED INTERVAL 2476.7-2479.7 mbsl; 203.7-206.7 mbsf		LITHOLOGIC DESCRIPTION		Two cm of MUD recovered in Care Catcher; rest of covernpty. Entire sample given to shipboard pateoniologists.
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_ 2272.7-2278.0 mbsl; 0.0-6.3 mbsf		LITHOLOGIC DESCRIPTION	MUD with SILT laminae and rare FORAM SANDS.	MUD is dominantly oline (BY 4/3) with minor intervals of dark oline gay (BY 3/2), very dark gaysh brown (2.5 4/2), dark gaysh brown (2.5 4/2), and gaysh brown (2.5 4/2), and gaysh brown (2.5 4/2), Boutustron is common.	SILT laminae are thin $(\sim 0.5~{\rm cm}$ thick on average), and rare avent in Serion 3.1 aminae are poorly overlade and	a few show scoured bases.	Distinct FORAM SANDS occur at Section 1, 106 cm, Section 3, 114–117 cm, and Section 4, 36–37 cm.	CARBONATE BOMB DATA: *CC, 8 cm = 12.5%					
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HOLE 620

Date Occupied: 23 October 1983, 2040 LCT

Date Departed: 26 October 1983, 0930 LCT

Time on Hole: 2 days, 11 hr.

Position (latitude; longitude): 26°50.12'N; 88°22.25'W

Water depth (sea level; corrected m, echo-sounding): 2608

Water depth (rig floor; corrected m, echo-sounding): 2618

Bottom felt (m, drill pipe): 2612.4

Penetration (m): 422.7

Number of cores: 45

Total length of cored section (m): 421.3

Total core recovered (m): 197.95

Core recovery (%): 47

Oldest sediment cored:

Depth sub-bottom (m): 422.7

Nature: clay

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): N/A

Principal results:

Site 620 was drilled approximately 18 km northeast of the channel in overbank sediments. Seismic data indicated that a few reflectors offlapped onto an underlying reflector that could be traced over much of the Mississippi Fan and marked at the base of the youngest fan lobe. These low angle dipping reflectors terminated onto the basal reflector approximately 70 km away from the channel and a distance of 44 km east of the site. Thus the site was located in such a position that a considerable section of the overbank deposits could be cored.

The site was to be the deepest hole drilled in the middle fan and a standard rotary coring bit and BHA were assembled. Cores were highly disturbed, but within each core, a portion of undisturbed sediments was commonly obtained. At a depth of 422.7 m, high back pressure on the drill pipe indicated that the sediment was "heaving" and that the chances of attaining the proposed depth of 774 m were slim. A decision was made to terminate the hole and obtain a well log run. A good log was obtained from a depth of 292 m to the seafloor, aiding the interpretation of the missed cored intervals.

The major scientific conclusions achieved were:

- 1) The overbank sediments are composed primarily of fine-grained clays, silty clays and silts that are basically arranged in alternating coarsening-upward trends.
- 2) Only a minor percentage of coarser-grained clastic sediment escapes the channel complex to be deposited marginally in the overbank environment. Thus the channel serves primarily as a conduit for transporting the coarser sediment downslope and only suspended

sediments are delivered overbank to build up the marginal areas of the fan lobe.

- 3) The cored section bottomed in Ericson Zone Y (late Wisconsin glacial); the seismically projected depth to Ericson Zone X being .

 858 m. The Holocene/Pleistocene boundary occurred at a depth of

 3.0 m. The base of the modern fan lobe was encountered at a depth of

 366 m at a point where an increase in benthic and planktonic foraminifers occurred.
- 4) Computed accumulation rates were 25 cm/1000 yr. for the Holocene (Ericson Zone X), and a minimum of 575 cm/1000 yr. for the late Wisconsin glacial (Ericson Zone Y) because the cored interval did not penetrate Ericson Zone X. Based on the seismic correlation, a computed accumulation rate for Zone Y is 1175 cm/1000 yr.
- 5) The overbank sediments did not contain a high percentage of displaced shallow-water benthic fauna, yet accumulation rates were extremely high. Cores in the channel fill (Site 621) and in the lower fan (Sites 614 and 615) all contained a high percentage of displaced fauna. This tends to indicate that the channel does indeed function as a conduit for coarser-grained particles and none of the large faunal elements were moved out of the adjacent channel onto the overbank area. Incipient benthic foraminifer species were encountered that likely can live in highly turbid areas.

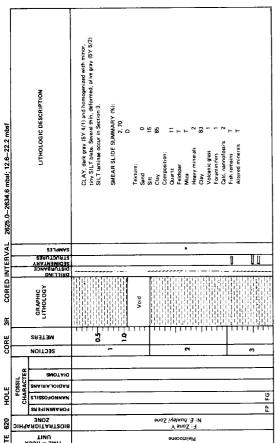
2615.4-2625.0 mbsl; 3.0-12.6 mbsf		LITHOLOGIC DESCRIPTION	CLAY with mino SLIT belos and laminas. CLLAY is very disk gravish bown (2.6Y 34/2) in Section 1; dark gravy (5Y 4/1) in Section 2 and 3, very dark gravy (5Y 4/1) in Section 2 and 3, very dark grav (5Y 4/1) in Core Catcher. CLAY is dominantly homogeneous, with core Catcher. CLAY is dominantly homogeneous, with subthe CLAY thinness in Section 3 and 4.5 Section 1 and 3 contain oxidized dark brown (19Y 8.3G) intensits. Core contains SLIT belos and minor, deformed, discontinuous and consistent with a clay fundary.	SMEAR SLIDE SUMMARY (%):	1,80 3,77 5,45 D M D	u	2 2	85 20	Composition: 11 46 8	7	, - °	Clay 70 19 85	inic glass T T	Dec: 1	Foraminifers T 20 4	ssils 15 2	! ⊢ •		Altered minerals 2 5 1		-								
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2612.4-2615.4 mbsl; 0.0-3.0 mbsf		LITHOLOGIC DESCRIPTION	Section 1, 0–20 cm: MARLY FORAM OOZE, dark brown (10YR 4/3); highly disturbed by drilling.	Section 1, 20 cm-end of core: CLAY. Dark gray (5Y 4/1) in Section 1; very dark gray (10YR 3/1) in Section 2.	Homogeneous; very deformed and disrurbed by drilling.	(10YR 3/2) oxidation zones occur at Section 1, 65 and	41-48 cm; Section 2, 2-4 cm and 103-114 cm. Core	contains rare SILT blebs and very deformed laminae.	SMEAR SLIDE SUMMARY (%):	1, 10 2, 80		re:	15	Sit 70 20		sition:	Quartz 37 17	Feldspar – 1	/ minerals =	Clay 15 77	Volcanic glass - T	Carbonate unspec. 5	Foraminifers 40 1	Calc. nannofossils T 3	Sponge spicules T ~	Plant debris (spores) - T	Altered minerals 3 -	CARRONATE BOMP DATA	•1 7-0 cm = 15%	2. 60–62 cm = 6%	
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2625.0-2634.6 mbsl; 12.6-22.2 mbsf		LITHOLOGIC DESCRIPTION	CLAY, dark gray (SY 4/1) and homogenized with minor, tiny SILT blets. Several thin, deformed, olive gray (SY 5/2). SILT lamines occur in Section 3.	SMEAR SLIDE SUMMARY (%): 2.70 2.70	Texture: 0	Sit 15 Clay 85	Composition:	Cudantz II	Mica	Heavy minerals 2 Clay 83	Volcanic glass 1	Foraminifers 1	Calc. nannofossils 2	Fish remains T	Altered minerals T			
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F: Zone Y N: E. huxleyi Zone

/AL 2653.8-2663.4 mbst; 41.4-51.0 mbsf		LITHOLOGIC DESCRIPTION SAMPLES	CLAY, dark gaw (5Y 4/1 to 10YR 4/1) and highly deformed by defiling Homogeneous to Section 4, 17 cm; family training thomogeneous to Section 4, 17 cm; family training thy ministed from Section 4, 171-13 cm; family training the manual family deformed, and family deformed, blots occur at Section 1, 70-150 cm and Section 2, 80-150 cm. Laminae in Section 4 are highly deformed, thin SLT and CLAY. SMEAR SLIDE SUMMARY (%): SMEAR SLIDE SUMMARY (%): Governorison: Sint 15 Composition: Sand Charte logistics 1 Cuty Charte logistics 1 Charte logistics 1 Charte logistics 1 Charte logistics 1 Charter minners 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1 Calconte unminec. 1
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Dark olive gray (5Y 3/2), homogeneous CLAY with minor blebs and deformed color bands of weak red (2.5YR 4/2) CLAY. Entire core very deformed by drilling.

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5R CORE

HOLE

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CORED INTERVAL 2634.6-2644.2 mbsi; 22.2-31.8 mbsf		LITHOLOGIC DESCRIPTION	CLAY, homogeneous, dark olive gray (5Y 3/2), and	moderately to very deformed by drilling. Section 3 contains	a 1.5 cm thick SILT laminae interbedded with CLAY at	Section 3, 80 cm. A few tiny SILT blebs occur at the base	of Section 3.	SMEAR SLIDE SUMMARY (%):	2,80	a	Texture:	Sand 0	Sit 25		Composition:	Quartz 19	Feldspar T	Heavy minerals 2	Clay 73	Volcanic glass T	Carbonate unspec. 1	Foraminifers 2	Catc. nannotossils 2	Altered minerals 1		CARBONATE BOMB DATA:	*3, 59-61 cm = 8%			
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2882.6-2692.2 mbsl; 70.2-79.8 mbsf		LITHOLOGIC DESCRIPTION	CLAY, Section 1 is dust gay (10YR 4/1) becoming very dust grayin brown (25Y 3/2) downmetrion; Section 2. 5, and 6 are dath gay to very dath gay 19Y 3/5/11. CLAY is homogeneous and very left 3/5/11. CLAY is homogeneous and very left 3/5/11. CLAY is homogeneous and very left 3/5/11. CLAY is homogeneous and very left 3/5/11. Section 1 and 2 contain minor dark gay (5Y 4/1) SIT blast and determines. SMEAR SLIDE SUMMARY (%): Section 0 Texture: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Comp
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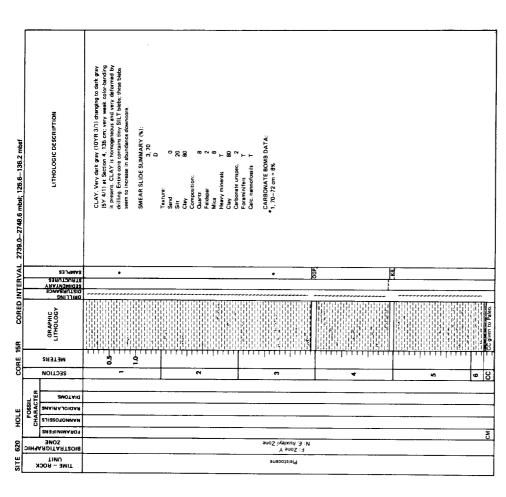
CORED INTERVAL 2863.4-2873.0 mbsl; 51.0-80.6 mbsf		LITHOLOGIC DESCRIPTION	CLAY, Section 1 is dark gray (5Y 4/1): Section 2 and 3 are	very dark grayish brown (2.5Y 3/2). CLAY is nomogeneous and very disturbed and deformed by drilling. Section 2,	100–150 cm contains rare SLT blebs; Section 3 contains	וווווחי אפא מפוחוונים סודי ופוווויים	··	2, 115 3, 37 3, 41	5	Send 0 0 0	Sit 7 20 98		Composition:	Quartz 10 10 89	Feldspar - T 1	Mics 1	Heavy minerals 2	Clay 85 79 2	Volcanic glass - 2 1	Pyrite and opaques 3 2	Carbonate unspec. 2 3 4	Foraminifiers 1 - T	Calc. nannotossils T 1 T	Plant debris (spores) - T -	Altered minerals - 2 1	CARRONATE BOMB DATA:	• 2, 130–132 cm = 4%
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CORED INTERVAL 2673,0-2682.6 mbsj; 60,6-70.2 mbsf		LITHOLOGIC DESCRIPTION	CLAY, dark gray (10YR 4/1); homogeneous; very deformed by drilling.	SMEAR SLIDE SUMMARY (%):	, '.' O	Texture:		Sit 20		Composition:	Quartz 5	Clay 80	Volcanic glass T	Opaques 2	Carbonate unspec. 2	Calc. nannofossils 3	Altered minerals 8
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2711.0-2720.2 mbai; 98.6-107.8 mbsf		LITHOLOGIC DESCRIPTION	CLAY, Very dark gayish brown (2.5YR 3/2); homogeneous, very disturbed by drilling. Rere SILT bebs in Section 2 and 3.	SMEAR SLIDE SUMMARY (%): 3.10 D	Texture: 0 Sand 0 Sit 20	ion:	Heavy minerals 1 Clay 688 Vocanic glass 5	Pyrite and opeques 1 Microrodules 2 Carbonate unspec. 8	Calc. nannofossils 1 Plant debt is (spores) T	CARBONATE BOMB DATA: 3, 30–32 cm = 6%										
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ž.		LITHOLOGIC DESCRIPTION	CLAY, dark gray (5Y 4/1) in Section 1; dark gray to very dark gray (5Y 4/1) in Section 1; dark gray (5Y 4/1) in Section 2 and in Section 3.	Cm. CLAY is homogeneous and very disturbed and	deformed by drilling, Settlon 3 contains minor inclines, folded, and discontinuous SILT teminae and SILT blebs.	MARY (%):	3, 22 3, 80		0	15 10			8 7			83 88			2 2	1		B DATA:			
2892.2-2701.8 mbsl; 79.8-89.4 mbsf		птного	CLAY, dark gray dark gray (57.3.5	SU-194 cm; uark cm, CLAY is hom	deformed by drift folded, and disco-	SMEAR SLIDE SUMMARY (%):		Therefore	Sand	i iis	Clay	Composition:	Quartz	Feldspar	Heavy minerals	Chay	Voicanic glass	Foraminifers	Calc. nannofossils	Altered minerals		CARBONALE BOMB DATA	3, 30-32		
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CORED INTERVAL 2701.8-2711.0 mbsl; 89.4-98.6 mbsf		LITHOLOGIC DESCRIPTION	CLAY, Very dark grav (5Y 3/1); homogeneous, moderately deformed by drilling. Section 1 contains rare SILT bebs and discontinuous SILT terrinse.	SMEAR SLIDE SUMMARY (%):	2.0	:0:	Sand 0	Sit 25		ition:	Quartz 10	Clay 72	Volcanic glass T	Opaques 5	Carbonate unspec. 5	Calc. nannofossils 3	1
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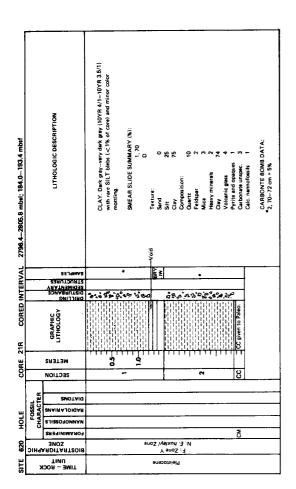
2720.22728.4 mbal; 107.8117.0 mbsf LITHOLOGIC DESCRIPTION	CLAY with minor SILT bebs, Homogeneou; highly disturbed by drilling, CLAY to olive gay (5V 4/2); changing to dark olive gay (5V 3/2) in Section 3. SMEAR SLIGE SUMMARY (%): 2, 56 Texture: 0, 2, 60 Texture: 2, 60 Camposition: 2, 70 Camposition: 1, 20 Camposition: 2, 60 Camposition: 1, 20 Camposition: 1, 20 Camposition: 1, 20 Camposition: 2, 60 Camposition: 2, 60 Camposition: 1, 20 Camposition: 1, 20 Camposition: 2, 20 Camposition: 2, 20 Camposition: 2, 20 Camposition: 3, 70 CARBONATE BONB DATA: 3, 70 7, 70 7, 72 7, 72 8, 70 7, 72 8, 70 7, 70 8, 70 7, 70 8, 70 7, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70 8, 70	2729.4–2739.0 mbsl; 117.0–126.6 mbsf	LITHOLOGIC DESCRIPTION	CLAY Very dark grayish brown (2 SYR 3/2): homogeneous: because and servine and very deformed by drilling. Minor Sil, I' biske and deformed lanniae. SMEAR SLIDE SUMMARY (%): 1, 20 3, 70 Texture: Sand Outrie: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition:
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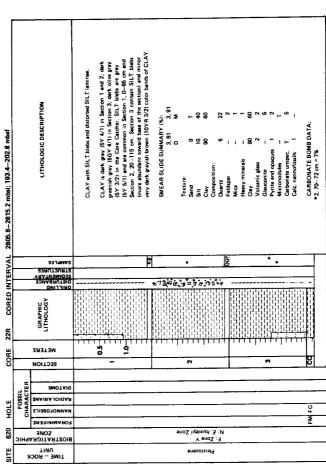
2758.2-2767.8 mbsl; 145.8-155.4 mbsf		LITHOLOGIC DESCRIPTION	CLAY, dark olive gray (5Y 3/2); homogeneous; very drauched by drifting. Core contains large void space, CLAY includes sere, tiny SILT blebs.	SMEAR SLIDE SUMMARY (%): 2, 140 D	Texture: Sand 0	ü	Void Heavy minerals 2 Ctay 78	Volcanic glass 3 Prince and opaques 3 Micronocules 1 Carbonate unspec. 2	Calc, namofossis 1 Sponge spine T Plant debris (spones) T	CARBONATE BOMB DATA: •2, 70–72 cm = 4%			-							
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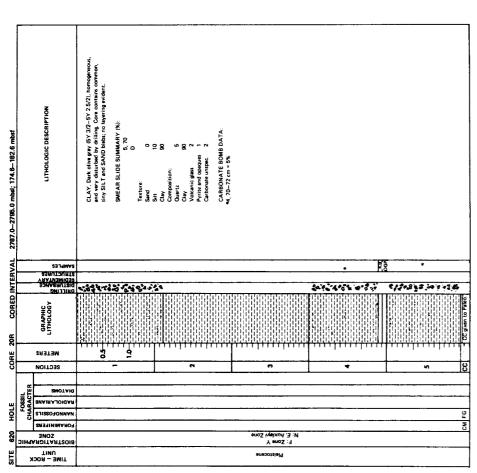
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2748.8-2758.2 mbsl; 136.2-145.8 mbsf		LITHOLOGIC DESCRIPTION	Void CLAY Section 1, 4, and 5 are dark oline gray (6Y 3/2); Section 2 and 3 are early dark grayish brown (25Y 3/2). Socior change is graditional and very subtle CLAY is homogeneous; erey disturbed by drilling; and contains rea, tiny SILT blabs. SMEAR SLIDE SUMMARY (%): D	Send 0 Sint 20 Sint 20 Composition: 10 Camposition: 10 Heavy minerals 1 Volcanic glass 3 Pyrits and observes 2	Micronodule: T Calconte unpose: 2 Calconte unpose: 5 Calconte unpose: 7 Calconte (type: 1) Calconte (type: 1) Calconte (type: 1) Calconte (type: 1) Calconte (type: 1)		
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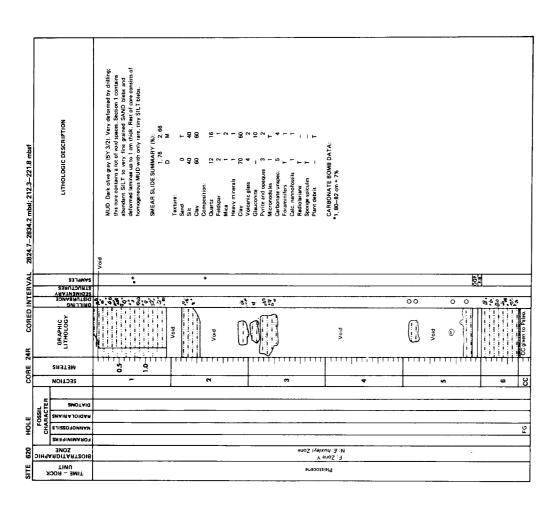
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2777.4-2787.0 mbsl; 165.0-174.6 mbsf		LITHOLOGIC DESCRIPTION	CLAY with SILT laminae. Dark olive gray (5Y 3/2). Core	is very deformed by drilling. Minor color bands of very dark	grayish brown (10YR 3/2) and black (5Y 2.5/2) MUD. Jaminae of SII Tare abundant: no grading observed, but	may be due to core disturbance.	THE CONTRACT OF THE CONTRACT	1 89 1 70		Texture:		Sir 90 10	10	ition:	Quartz 60 3	Feldspar 5 -	Mica 1	minerals 1	Clay 20 87	Volcanic gless 1 2	Pyrite and opaques 1 1	-	Carbonate unspec. 10 3	Foraminifers T -	Calc. nannofossits - 2	Diatoms T –	Sponge spicules T -	TTT CONTACTOR AND	*1, 80-82 cm = 10%	
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2767.8-2777.4 mbst; 155.4-165.0 mbsf		LITHOLOGIC DESCRIPTION	CLAY, Dark olive gay (BY 3/2), with subtle color mottling that's not distinguishable enough to sketch. CLAY is very deformed by diffilling; one contains many viold spaces. CLAY is homogeneous with rare, tiny SLT blabs.	SMEAR SLIDE SUMMARY (%): 1, 70 Texture:	Silt 12 Silt 12 Silt 18 Composition: 15 Feldspar 5	Clay (22 Carbonate unspec 3 Carbonate unspec 3 Carbonate unspec 3 Carbonate unspec 3 Carbonate unspec 3 Carbonate unspec 3 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1 Carbonates 1	CARBONATE BOMB DATA: *2, 70–72 cm = 5%					
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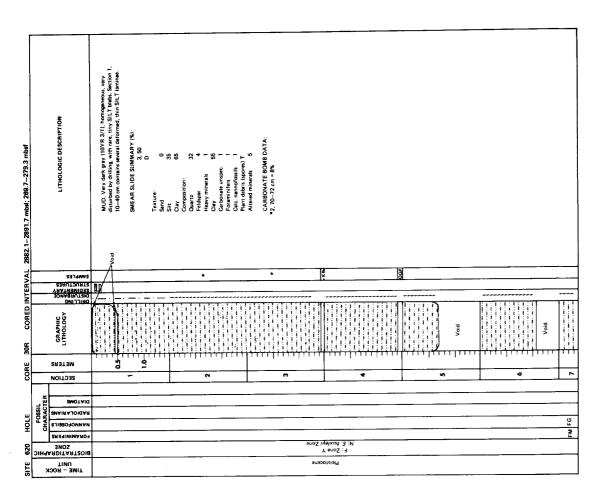
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2815.2-2824.7 mbst; 202.8-212.3 mbsf		LITHOLOGIC DESCRIPTION	MUD. Very dark gray (5Y 3/1) with minor bands of dark	grayish brown (10YR 4/2) MUD in Section 1. Core is	homogeneous; very deformed by drilling. Sections 1–3 contain very rare, tiny SLT blets.		SMEAR SLIDE SUMMARY (%):	1, 70	2	Texture:		S		100	Country	Feldspar 5	Mica 4	minerals	Clay 35	Carbonate unspec. 4	Calc, nannofossils T	Rediolarians T		CARBONATE BOMB DATA:	2, 70-72 cm = 7%									
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2843.7-2853.3 mbst; 231.3-240.9 mbsf	LITHOLOGIC DESCRIPTION	Void MUD with minor SILT blats. MUD is dark olive grav (ISY 422), and dominantly homogeneous and very disturbed to distings SILT blats become more abundant downcore; Section 3, 40–50 on., Section 4, 100–130 cm., and the Core Collecter contain distorted SILT it blats with microlamines in Core Carletter and Core in Carletter SILT learnes in Core Carletter are Tod turbidities with microlaminations thowing low-ungle climbing rippel lamines.	Texture: Sand Sind Sind Sind Sind Sind Sind Sind Si	CARBONATE BOMB DATA: 44, 70–72 cm = 7%
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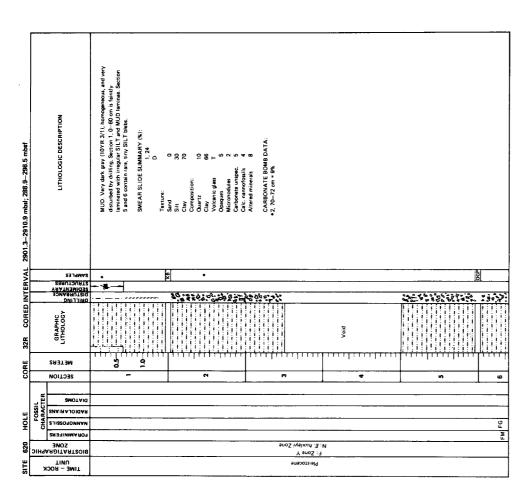
2834.2-2843.7 mbsl; 221.8-231.3 mbsf		LITHOLOGIC DESCRIPTION	MUD. Yavy dark gay (6Y 3/1), Sertion 1 is only moderately distribed and contains abundant, thin SILT imments. Sertion 3, and 4 are entirely void. Section 5 and 6 are eavy deformed and the MUD in them contains minor to common, riny SILT blets. SMEAR SLIDE SUMMARY (%):	1, 46 Texture: D Sand 1 Sin 30 Clay 69	osition: 12 per	Heavy minerals 2 Clay 30 Price 1	Carbonate unspec. 5 Radiolarians T				
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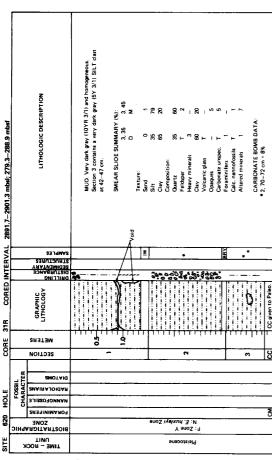
2862.9-2872.5 mbsl; 250.5-260.1 mbsf		LITHOLOGIC DESCRIPTION	MUD. Dominantly very dark gray (10YR 3/1); moderately- to very deformed or brecointed by drilling. Many voids.	Section 1, 0–73 cm contains abundant SILT lamines. SILT lamines are dominantly olive gar (SY 4,507), range from 1–3 cm thick, and have sharp secured bases and sharp from 1–3 cm thick, and have sharp secured bases and sharp	tops. SILT lemines also occur at Section 1, 140–150 cm and Section 2, 0–10 cm.	Void Care below Section 2, 10 cm contains homogeneous MUD with very rare SILT blebs.	SMEAR SLIDE SUMMARY (%):	70', SD',	Sand 3 0 Sile 87 36	f0 sition:	2 60 par 5	3 / minerals 13	ω, 1		e unspec. 2 fers –	Calc. nannofossils – T Altered minerals 7 3	CARBONATE BOMB DATA:											
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2853.3-2862.9 mbaj; 240.9-250.5 mbsf		LITHOLOGIC DESCRIPTION	MUD with SILT laminae.	MUD is very dark gray (5Y 3/1).	SILT laminae are dark gray (5Y 4/1). Laminae are graded. have scauned bases: some have climbing ripples. Vary in	thickness from ~ 2 cm to 0.2 cm; some of the thinner ones are interfaminated with MUD.	SMEAR SLIDE SUMMARY (%):	1,60	٥	.e.	_	Sit 40		sition:	Ouartz 15	Mica 5	Heavy minerals 2	Clay 57	Volcanic glass 2	Glauconite 5	Pyrite and opaques 2	Micronodules 1	Calc. nannofossils 3	Radiovarians T
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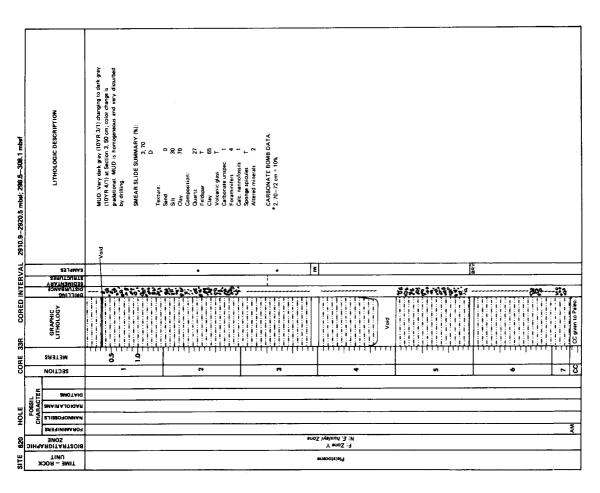


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),1-269.7 mbsf		LITHOLOGIC DESCRIPTION	Section 1, 0–7 cm: MUD, dark olive gray (5Y 3/2), homogeneous, and very deformed.	Section 1, 7–118 cm; faintly laminated, dark olive gray	(6Y 3/2), moderately deformed MUD. Laminae are thin SILTS.	SMEAR SLIDE SUMMARY (%): 1, 30	٥		4	92	14		53	2	-	erals 2	31	lass T	unspec. 2	ers 5	ofossils T	inerals 5
2872.5-2882.1 mbsl; 260.1-269.7 mbsf		5	Section 1,	Section	(6Y 3/2), SILTS.	SMEARS		Texture:	Sand	is.	Clay	Composition:	Quartz	Feldspar	Mica	Heavy minerals	Clay	Volcanic glass	Carbonate unspec	Foraminifers	Calc. nannofossils	Attered minerals
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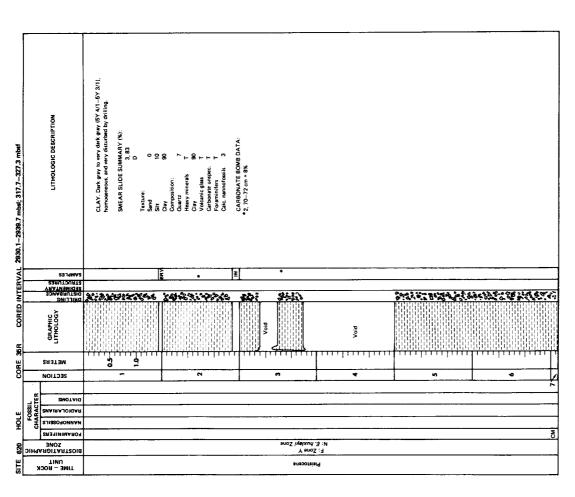


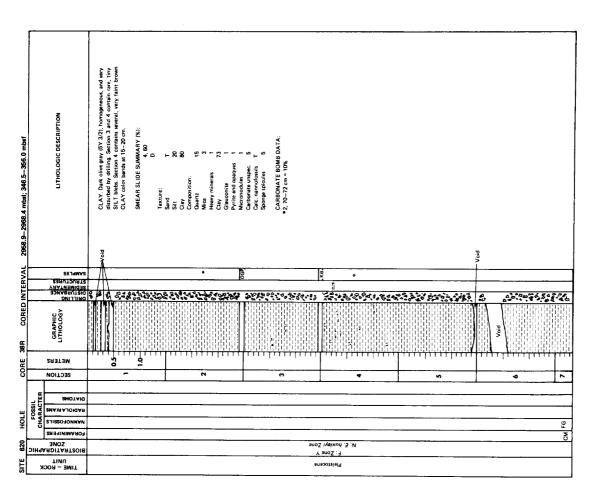


2920.5-2930.1 mbsl; 308.1-317.7 mbsf		LITHOLOGIC DESCRIPTION	Void CLAY. Very dark gray (10YR 3/1), homogeneous, and	very disturbed by drilling.	SWEAR SLIDE SUMMARY (%):	1, 10	۵	Texture:	Send 0	Sit 20		Composition:	7.	Clay 77	Carbonate unspec. 6	Calc. nannofossils 3	Plant debris (spores) T	Altered minerals 4	CARRONATE ROMR DATA:	•1, 80–82 cm = 11%
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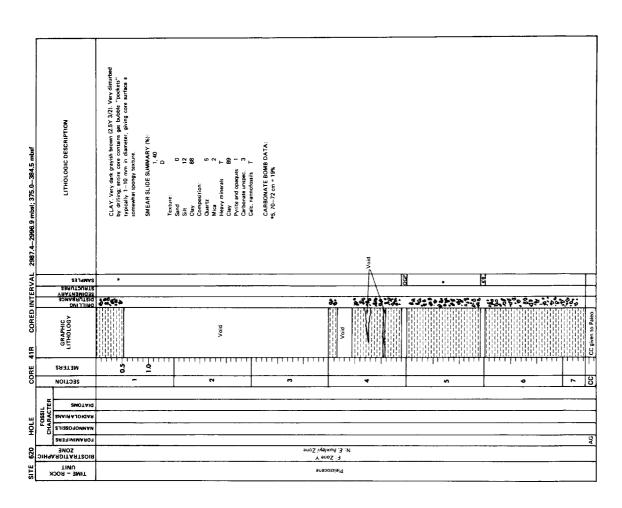


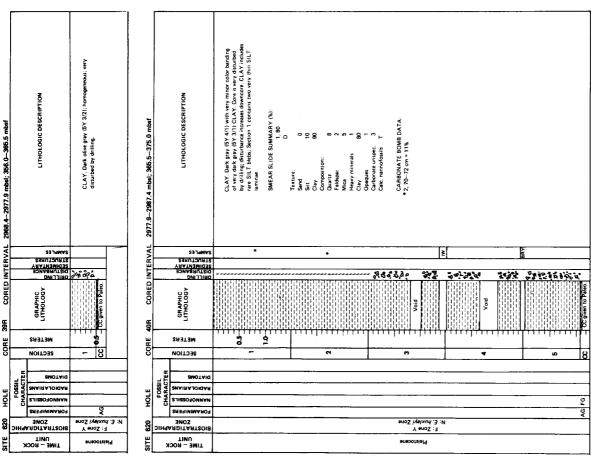
CORED INTERVAL 2939.7-2949.3 mbsl; 327.3-336.9 mbsf		LITHOLOGIC DESCRIPTION	CLAY. Very dark gray (5Y 3/1), homogeneous, and very	deformed by drilling.	SMEAR SLIDE SUMMARY (%):	1,60	Texture:	_	S: 20	Commontified 80	Quartz 10	Feldspar 2	Mica 5	minerals	Clay 80	Pyrite and opaques 1	Radiolarians T	CARBONATE BOMB DATA:	•2, 70–72 cm = 10%
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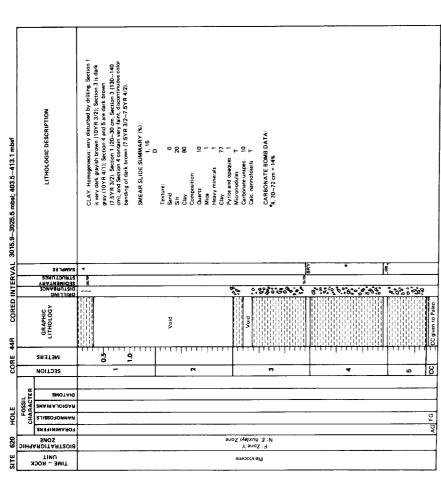




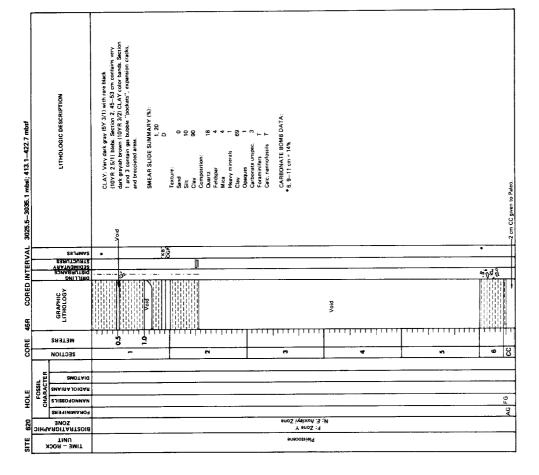
CORED INTERVAL 2949.3-2958.9 mbsl; 336.9-346.5 mbsf		LITHOLOGIC DESCRIPTION	-Void CLAY, Dark olive gray (5Y 3/2), homogeneous, and very deformed by drilling.	SMEAR SLIDE SUMMRY (%): 1, 78 D	Texture: Sand Silt	ion:	Okartz 15 Feldspar 4 Mica 8	minerals	Opaques Carbonate unspec. 6	Calc. namotossis i Plant debris T	CARBONATE BOMB DATA: *2, 70–72 cm = 9%											
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3996.9-3006.4 mbst; 384.5-394.0 mbst	LITHOLOGIC DESCRIPTION	CLAY, Vary disturbed by distilling; entire core contains gas bubble "podetat" commonly up to -1 cm diameter, graylab broad to the core contains of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the core of the	3006.4-3015.4 mbal; 394.0-403.5 mbsf	LITHOLOGIC DESCRIPTION	CLAY. Dark brown (7.5YR 3/2) from Section 1, 0–23 cm; distrinctly color-banded with dark brown (7.5YR 3/2) and very dark grayish brown (10YR 3/2) from Section 1, 22–38 cm; very dark grayish brown (10YR 3/2) from Section 1, 36–58 cm; Small gas bubble "pocked" give core surface a somewhat spongy texture.	SMEAR SLIDE SUMMARY (%): 1, 20 D	: 91	ion:	Feldapar 4 Mica Heavy minerals 1	ų į	Foraminifers T Calc. nannofossils 1
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SITE 621

HOLE 621

Date Occupied: 26 October 1983, 2316 LCT

Date Departed: 29 October 1983, 0115 LCT

Time on Hole: 3 days, 0 hr

Position (latitude; longitude): 26°43.86'N; 88°29.76'W

Water depth (sea level; corrected m, echo-sounding): 2481

Water depth (rig floor; corrected m, echo-sounding): 2491

Bottom felt (m, drill pipe): 2485

Penetration (m): 214.8

Number of cores: 34

Total length of cored section (m): 157.3

Total core recovered (m): 136.83

Core recovery (%): 87

Oldest sediment cored:

Depth sub-bottom (m): 214.8

Nature: gravel

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): N/A

Basement: N/A

Principal results:

Site 621 was drilled near the thalweg along the convex side of the channel in 2481 m water depth. The channel at this site is approximately 3 km wide and has a relief of 40 m between the top of the adjacent levee and the present channel floor. The major objectives of this site were to obtain the sedimentological characteristics of the channel fill and to obtain a vertical sequence of the lithologic trends. In addition, high amplitude seismic reflectors are associated with the channel complex and knowledge concerning their lithology would aid in reconstructing the history of the channel development.

The 214.8 m hole was cored using the Hydraulic Piston Corer; recovery was excellent and the cores displayed little disturbance until near the bottom of the hole. After completing the coring program, a gamma ray and sonic log run was successfully completed.

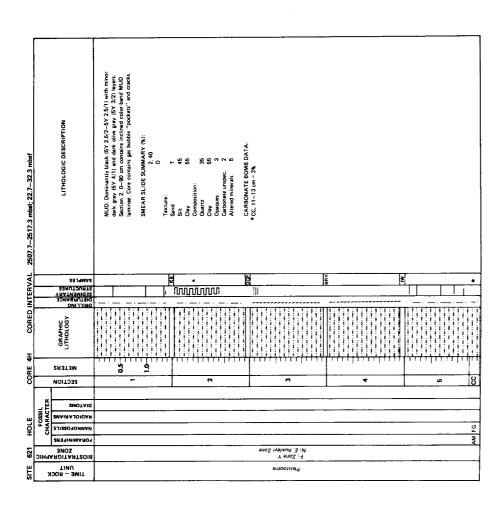
Principal results were:

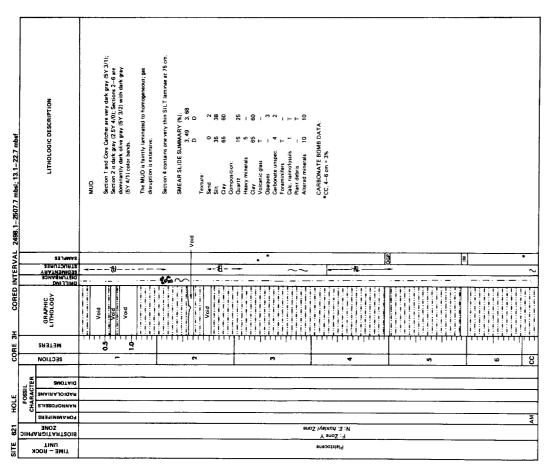
1) The channel sequence displays a fining-upward trend, commencing with coarse gravel at total depth and ending with fine-grained clays capped by a thin foraminiferal ooze. The coarser-grained sediments, sands and gravel, extend from the total depth of penetration to 182 m (minimum 32 m thick). The base of the channel was not penetrated, but seismically the channel base is interpreted to lie at a depth of 317 m. The basal coarse sediments grade upward into interbedded sands and silts with sands rarely exceeding 1 m thick. The sands and silts extend up to a penetration of 150 m and grade into overlying silty muds containing minor amounts

- of sand. At approximately 94 m penetration, the sediments grade into dark gray homogeneous muds approximately 94 m thick.
- 2) The sediments comprising the channel fill contain predominantly reworked shallow-water microfauna and planktonic and bathyal benthic fauna are sparse.
- 3) Interpreting the lower coarser-grained sediments to represent the active phase of the channel results in a minimum channel depth (from levee crest to thalweg) of 221 m. Such channel relief proves to be sufficient to contain coarser sediment flows within the channel and shows that only the finer-grained components were being transported over the levee to form the marginal overbank deposits.
- 4) The finer-grained upper part of the channel fill must have occurred rapidly since few bathyal benthic fauna are present and displaced shallow-water forms are abundant.
- 5) Computed accumulation rates were 25.0 cm/1000 yr. for the Holocene (Ericson Zone Z) and a minimum of 290.0 cm/1000 yr. for the late Wisconsin glacial (Ericson Zone Y) as the base of Zone Y was not penetrated. Based on seismic correlation of the top of Zone X, a computed accumulation is 1111.0 cm/1000 yr. for the late Wisconsin glacial period. This is an extremely high sedimentation rate and indicates that large volumes of sediment have been delivered down this channel to form the modern fan lobe.
- 6) The nearest source of graveliferous deposits is on the shelf near the head of the present Mississippi Canyon. These deposits are late Pleistocene in age.

2488.5-2498.1 mbsl; 3.5-13.1 mbsf		LITHOLOGIC DESCRIPTION	MUD/CLAYEY MUD.	Section 1 is dark olive gray (5Y 3/2) with black (5Y 2/1) reduction zones and organic-rich zones.	Section 2 and 4 are very dark gray (SY 3/1) with very deformed dark gray (SY 4/1) and black (SY 2/1) MUD note hands	Section 3 is black (5Y 2/1) and dark olive gray (5Y 3/2)	Section 5.6, and Core Catcher contain very dark grayjsh brown (10YR 3/2), and black (5Y 2/2), extensively monthst, color-banded MUD.	SMEAR SLIDE SUMMARY (%): 4, 60	Texture:		position: tz	ipar y minerals	Clay Volcanic glass T	Carbonate unspec. T Foraminifers 1	Sponge sicules T	Altered minerals 1	CARBONATE BOMB DATA: **CC, 11-13 cm = 2%					
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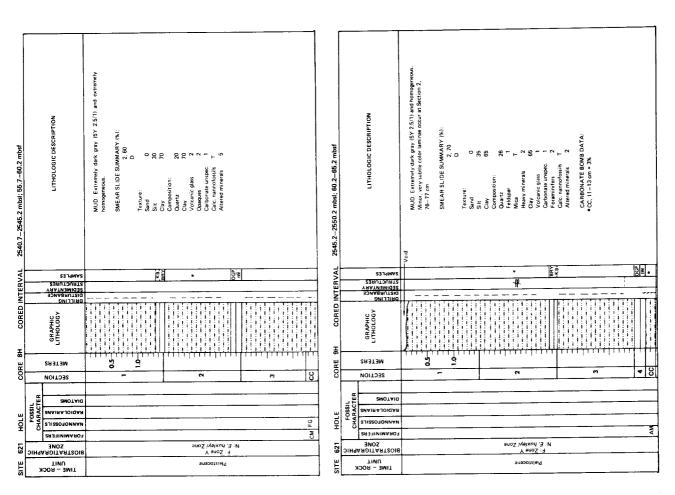
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2485.0-2488.5 mbsl; 0.0-3.5 mbsf		LITHOLOGIC DESCRIPTION	Section 1, 0-25 cm; MARLY FORAMINIFERAL OOZE, Brown	(10YR 5/3) from 0-12 cm; alive brown (2,5Y 4/4) from 12-18 cm; alive (5Y 4/3) from 18-25 cm.		Section 1, 25 cm-Core Catcher: MUD. Dark gray (5Y 4/1) in	Section 1; very dark gray (5Y 3/1) at Section 2, 0–90 cm; dark olive	gray (31 3/2) at Section 2, 30—133 cm, very dark gray (31 3/1/1). Sections 3 and Core Catcher Core is mottled and homogeneous	with very indistinct color bands at Section 2, 0–85 cm and Section	3 and Core Catcher.	SMEAB SUIDE SUMMABY (%)	1, 2 1, 19 1, 20 1, 37 1, 138	0	Texture:	2 T 1	Sit 20 78 35 49 35	20 65 50		10 50 10	rec	- 5 2 -	minerals - 1 1	40 32 65 50	Opeques 1 3 5 3 -		œ	Foraminifers 30 1 2 T 1	Calc. nannofossils 10 5 T 1	Sponge spicules 1 - T	Plant debris 2 -	Altered minerals 4 - 15	CARBONATE BOMB DATA:	eo - ma 12-er 'i
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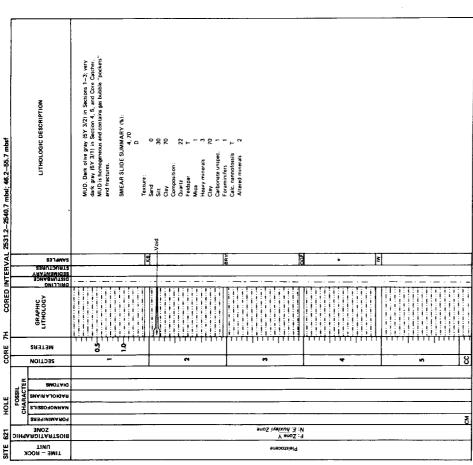


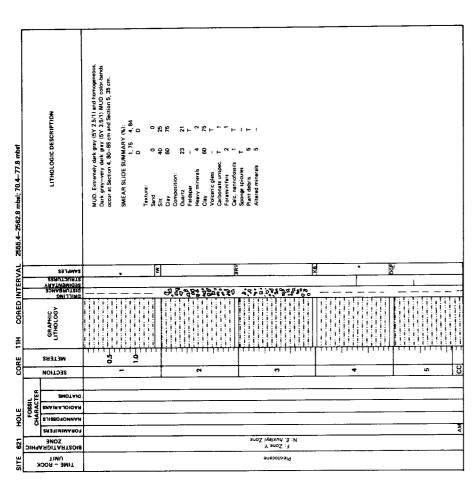


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2517.3-2526.9 mbal; 32.3-41.9 mbsf		LITHOLOGIC DESCRIPTION	MUD. Extremally dark gray 18/Y 2 5/11 to Section 5, 24 and Cornector Carbert. Mulo Is homogeneous. Section 1, 28–38 an constitution to homogeneous. Section 1, 28–38 an constitution to homogeneous. Section 1, 28–38 and 3 Section 2 ordinary and a section 2 and 3 Section 3, 75–105 an contains every ability color banded MuD. Section 3, 75–105 an contains every ability color banded MuD. Section 3, 75–105 an contains every ability color. banded MuD. Section 3, 75–105 an contains every ability color. banded MuD. Section 3, 75–105 an are mortised. SMEAR SLIDE SUMMARY (8): SMEAR SLIDE SUMMARY (8): SMEAR SLIDE SUMMARY (8): Candon Section 3, 75–105 and 3, 65 Candon Section 3, 75–105 Candon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon Section 3, 75–105 Carbon
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		NOI	MUD. Extremely dark gray (5Y 2.5/1), homogeneous, and very deformed by drilling.																					
7-94.2 mbsf		LITHOLOGIC DESCRIPTION	MUD. Extremely dark gray (5Y and very deformed by drilling.	SMEAR SLIDE SUMMARY (%): 1, 15 D	0 9	_	S rus 6			cules T	-													-
2571.7-2579.2 mbsl; 86.7-94.2 mbsf		5	MUD. Extr and very de	SMEARSL	Texture: Sand Sit	Clay Composition:	Mica	Clay	Carbonate unspec.	Sponge spicules	Tage Cage													
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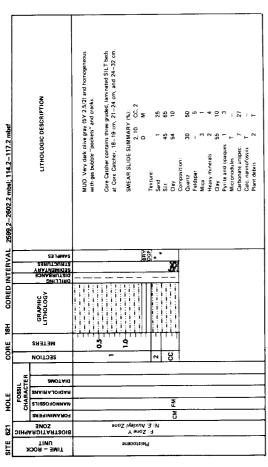
2562.8-2566.4 mbsl; 77.8-81.4 mbsf		LITHOLOGIC DESCRIPTION	MUD. Extremely dark gray (5V 2.5/1) and homogeneous.	SMEAR SLIDE SUMMARY (%):		Texture:		Clay Composition:	Obartz 35	Mica T	u,	onate unspec.	Foraminiters 1	Calc. nannofossits T	Plant debris 3	Altered minerals 2	CARBONATE BOMB DATA:	•CC, 1–3 cm = 4%			2566.4-2571.7 mbsl; 81.4-86.7 mbsf			LITHOLOGIC DESCRIPTION		Mitty Consequence (IXV 5K/) and homogeneous	MOD. Extremely dark gray 151 2.57 / Jano Northogeneous. Section 3, 95 cm—Core Catcher contains abundant gas	bubble "pockets".	SMEAR SLIDE SUMMARY (%):	09 či	Texture:	_	Clay 60	sition	Quartz 28	- Indepart
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CORED INTERVAL, 25664—2571.7 mbsi, 81.4—86.7 mbsi Phic Core Price Core Core Core Core Core Core Core Cor	MID Extremely dark gray (SY 2.6/1) and homogeneous. Section 3.36 cm – Core Carcher contains abundant gas. bubble 'prockers'; SMEAR SLIDE SUMMARY (%): 3.60 Taxture: 6.0	Sit 40 Cay Cay Cay Cay Cay And And And And And And And And And And	Sister T	
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2584.7-2589.7 mbsl; 99.7-104.7 mbsf		LITHOLOGIC DESCRIPTION	MUD, Very dark gray (5Y 3/1) and homogeneous, Entire	core contains tiny gas cavities. Section 2 has rare dispersed	coarse sift blebs and very fine sand grains.	Very faint laminae and layers > 1 cm thick are visible in	slab cut at Section 1, 88-116 cm. These are not observable	in the archive core half.	SMEAR SLIDE SUMMARY (%):	2, 70	0	Texture:	Sand T	Sit 40		Composition:	With a	minerals		Pyrite and opaques 2	_	Carbonate unspec. 5	Calc. nannofossils 2	Plant debris 1						
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2002.7 - 2002.2 IIIN; 104.7 114.2 MBST	LITHOLOGIC DESCRIPTION	MUD Section 1 is very dark gray (2.5Y 3/B). Sartion 2	is dark olive gray (5Y 3/2); Core Catcher is dark olive	gray (5Y 2.5/2). MUD is homogeneous with some gas	bubble "pockets" and cracks,	SMEAR SLIDE SUMMARY (%):	2,30 2,70	a a	Texture:	_	93	Clay 70 50	Composition:	1.7	Jar	Mica 2 3	minerals	Clay 55 46	-	Carbonate unspec. 3 5	Foraminifers T –	Calc. nannofossils 1 –	Plant debris T 2	CARBONATE BOMB DATA	• CC, 1-3 cm = 4%
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		···	MID Extremely dark may (5Y 2 5/1) and homoseness	with lots of oas hubble "mockets" and cracks. Core has	subtle, minor color-banding; locations of color bands	column.													-												
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7 mbsl; 94.2		LITH	AUD Extrem	with lots of on	ubtle, minor	shown in "Sedimentary Structures" column.	SMEAR SLIDE SUMMARY (%):			Texture:	Sand	Sir	Clay	Composition:	Quartz	Feldspar	Mica	Heavy minerals	Clay	Opaques	Carbonate unspec.	Plant debris									
L 2579.2–2584.7 mbsl; 94.2–99.7 mbsf																															
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SILTY MUD. Very dark gap, (6Y 3/1). Silty mud contains SILT blets and dispersed very fine: to fine-grained SAND gains and tiny, disseminated lignite. No laminae or layers violes.

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LITHOLOGIC DESCRIPTION

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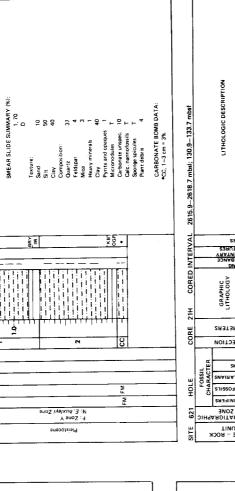
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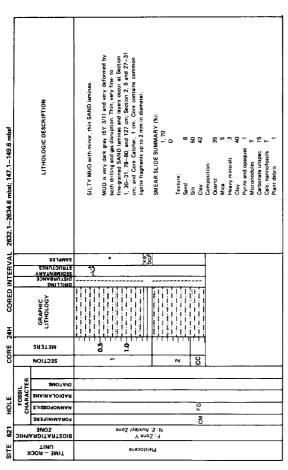
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2608.7-2612.7 mbsl; 123.7-127.7 mbsf		LITHOLOGIC DESCRIPTION	Section 1, 0 cm - Section 2, 44 cm.: MUD. Very dark gray	(5Y 3/1). Section 2, 0-44 cm contains some SILT biebs and laminae and some color banding	Section 2, 44 cm—Section 3: SILTY MUD. Very dark gray (5Y 3/1).	SMEAR SLIDE SUMMARY (%): 1, 50	Q	Texture: Sand 3	Sit 60		Composition: Cuartz 50	ě	Mica	Heavy minerals 1	sen.	Carbonate unspec. 4	Foraminifers 1	Cate: namotossis i Radiolarians	
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Z6 15.9—Z6 18.7 mbst; 130.9—135.7 mbst		LITHOLOGIC DESCRIPTION		SILTY MUD. Very dark gray (5Y 3/1), with very subtle	color variations at Section 1, 100105 cm. Subtle changes	in percentage of coarse grains; slightly coarser-grained	intervals occur at Section 1, 30-34, 58-60, 105-113,	and 135-140 cm; and Section 2, 0-50 cm. Wood and	lignite fragments are common.	SMEAR SLIDE SUMMARY (%):	2, 45	0	Texture	Sand 5	Sit 45	Clay 50	Composition:	Quartz 35	Feldspar 6	Mica 5	Heavy minerals 2	Clay 44	Opaques 2	Carbonate unspec. 5	Foraminiters	Calc, nannofossils T
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204 1.7 - 2044.7 H081, 130.7 = 135.7 H081	LITHOLOGIC DESCRIPTION	MUD with SILT laminae.	MUD is dominantly very dark gray (10YR 3/1) with minor dark reddish gray (10R 3/1) color banded.	SILT taminae are gray (10YR 5/1). Many are graded,	have scoured bases, senticular badding, and/or micro- cross-laminations. Many SILT laminae include granules	of iran sulphide.	SMEAR SLIDE SUMMARY (%):	32		re:	7	Sit 88 45	2	ition:	Quartz 73 30	Mice 1 1	Heavy minerals 5 3	9	Volcanic glass – T	Carbonate unspec. T 1	Foraminifers 1 3	Catc. nannofossils T T		Altered minerals 10 4 CARROMATE BOMB DATA
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CORED INTERVAL 2618.7-2622.5 mbst; 133.7-137.5 mbsf	LITHOLOGIC DESCRIPTION	SILTY MUD Very dark gay (SY 3/1) homogeneous, and very deformed by diviling. Awas of less connes wedment it.e. MUD occur at Section 1.3 10 and 15 cm. Section 2, 90, 116–134 cm, and Section 3.1 texture: SMEAR SLIDE SUMMARY (%): 1, 20 Texture: Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Camposition: Cary Privite and opsquex Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand Sand S	Plant debris 1
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	. 2622.5-2625.0 mbsl; 137.5-140.0 mbsf		LITHOLOGIC DESCRIPTION	N. A. A. A. A. A. A. A. A. A. A. A. A. A.	SILTY MUD. Very dark gray (5Y 3/1) with minor SILT	blebs and common gas bubble "pockets" and cracks.	Common wood and lignite. Section 1, 0-40 cm contains	grain-size variations: Section 1, 7-14 and 29-38 cm	contain fewer coarse grains.		SMEAR SLIDE SUMMARY (%):			Texture	C. C. C. C. C. C. C. C. C. C. C. C. C. C		20 P	osition:	Quartz 40	Feldspar 5	Mica 3	Heavy minerals 2	Clay 46	Opaques 2	Micronodules	Zeolite 1	Plant debris 1
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2661.3-2654.3 mbsl; 166.3-169.3 mbsf		LITHOLOGIC DESCRIPTION	Section 1: MUD with SANDY SILT zones, MUD is very	dark gray (10YR 3/1). Oxidized, very dark grayish brown (10YR 3/2) MUD intervals occur at Section 1, 100–110	and 115-120 cm. SANDY SILT "layers" are very dark	gray (5Y 3/1), inclined, and deformed.	Section 2 and Core Catcher: SILTY MUD with SILT	laminae, SILTY MUD is very dark gray (5Y 3/1–5Y 3/1.5).	SILT laminae are dark gray to very dark gray (5Y 4/1-	5Y 3/1), deformed, and inclined. Rare SAND blebs.	SMEAR SLIDE SUMMARY (%):	1, 48 2, 58		Texture:	40	25		Composition:	Ouartz 70 30	Feldspar 1	Clay 10 50	Opaques 5	Carbonate unspec. – 7	Altered minerals 14 7	CARBONATE BOMB DATA:	•1, 112–114 cm ≈ 0%
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Interlaminated SILT and MUD. Dominant color is dark gray (5Y 4/1). Section 1, 50–120 cm is very finely-laminated.

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CARBONATE BOMB DATA:

LITHOLOGIC DESCRIPTION

GRAPHIC LITHOLOGY

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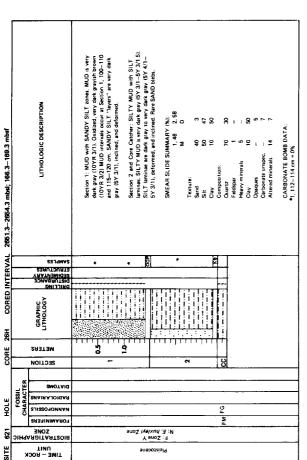
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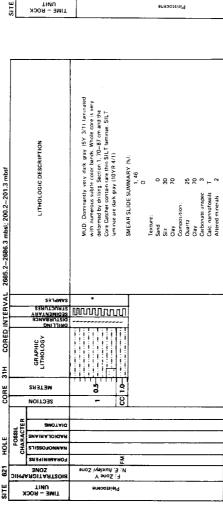
CORED INTERVAL 2670.5-2672.0 mbst; 185.5-187.0 mbsf

28H

- 1																									
CORED INTERVAL 2680.1-2684.2 mbsl; 196.1-199.2 mbsf		LITHOLOGIC DESCRIPTION	PEBBLY MUD. Dark olive gray (5Y 3/2) with a SANDY	MUD matrix from Section 1, 0–77 cm; very derk gray	1, 77 cm to end of core. This is a very disorganized, very	deformed, very poorly sorted PEBBLY MUD. Particles	sized fraction makes up 15-20% of the visible cut surface,	decreasing downcore. Section 2 and 3 contain common SILTY and SANDY blebs.	SMEAR SLIDE SLIMMARY (%):	1,30 1,110 3,101	№ 0	Texture:	15 1	Clay 65 55 74	osition:	17	Feldsper 1 T -	Heavy minerals 2 3 +	. 55	nic glass -	Opaques - 2	Carbonate unspec. 2 T 2	Foraminifers 1 2	Calc. nannofossits 2 T T	Altered minerals 7 1 2
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CORED INTERVAL 2686.3-2688.3 mbsl; 201.3-203.3 mbsf		LITHOLOGIC DESCRIPTION	LAMINATED MUID Dominantly very dark gay (BY 3/1). Laminae are both color banded MUD and SILT tentione. Folish are defined by lamine at Section 1, 0-9, 32-40, 60-88, and 100-108 cm. SMEAR SLIDE SUMMARY (%): 2, 10 Texture: 5, 10 Texture: 6, 10 Texture: 7, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture: 9, 10 Texture:
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CORED INTERVAL 2684.2-2885.2 mbsj: 199.2-200.2 mbsf		LITHOLOGIC DESCRIPTION	MUD with SLT laminae. Very dark gray (5Y 3/1) and moderstely to evey defined by drilling, Common SLT laminas at Section 1 20L-20 nm	SMEAR SLIDE SUMMARY (%):	1, 35	Σ	Texture:	_	Silt 35	Clay 65	Composition:	Quartz 25	Clay 64	Volcanic glass T	Carbonate unspec. 6	Foraminifers T	Calc. nannofossils 1	Altered minerals 4
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SITE	к	TIME - ROC	stocene															

Section 1, 79–105 cm: MUD with SILT laminae and blebs. Dark gray (5Y 4/1),

Section 1, 105–140 cm; SILTY MUD with minor GRAVEL, Dark olive gray (5Y 3/2).

Section 1, 0–79 cm: SAND. Olive gray (5Y 4/2) and homogeneous.

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LITHOLOGIC DESCRIPTION

DRILLING SEDIMENTERY SEDIMENTERY STRUCTURES SAMPLES

GRAPHIC LITHOLOGY

METERS SECTION

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CORED INTERVAL 2696.3-2699.8 mbsl; 211.3-214.8 mbsf

33H

Section 1, 140 cm—Section 2, 120 cm; SAND. Olive gray (5Y 4/2), structureless, and medium-grained.

Section 2, 130 cm—Core Catcher; GRAVEL, ~ 2 mm through 2.15 cm in claimeter, Composed of 45s, brown eher, 25s, black chert, 5s, moutono, 3s, isoper, 15s, quartz, 2s, shell fragments, and 5s, miscellaneous.

SMEAR SLIDE SUMMARY (%): 2, 75 D

Texture:
Sand
Sand
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5
Clay

CARBONATE BOMB DATA:
• CC. 3–5 cm = 6%

SITE 622

HOLE 622

Date Occupied: 29 October 1983, 0445 LCT

Date Departed: 30 October 1983, 2345 LCT

Time on Hole: 1 day, 19 hr.

Position (latitude; longitude): 26°41.41'N; 88°22.82'W

Water depth (sea level; corrected m, echo-sounding): 2491

Water depth (rig floor; corrected m, echo-sounding): 2501

Bottom felt (m, drill pipe): 2495

Penetration (m): 208.0

Number of cores: 26

Total length of cored section (m): 132.7

Total core recovered (m): 100.17

Core recovery (%): 75

Oldest sediment cored:

Depth sub-bottom (m): 208.0

Nature: clay

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): N/A

Basement: N/A

HOLE 622A

Date Occupied: 31 October 1983, 0130 LCT

Date Departed: 31 October 1983, 0734 LCT

Time on Hole: 0 day, 6 hr.

Position (latitude; longitude): 26°41.41'N; 88°22.82'W

Water depth (sea level; corrected m, echo-sounding): 2491

Water depth (rig floor; corrected m, echo-sounding): 2501

Bottom felt (m, drill pipe): 2495.5

Penetration (m): 5.6

Number of cores: 1

Total length of cored section (m): 5.6

Total core recovered (m): 5.55

Core recovery (%): 99

Oldest sediment cored:

Depth sub-bottom (m): 5.6

Nature: clay

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): N/A

Principal results:

Site 622 was drilled on the concave side of a sinuous bend in the middle fan channel. Good core recovery was obtained with the Hydraulic Piston Corer to a depth of approximately 160 m and partial recovery thereafter to a total depth of 199.5 m sub-bottom. Gamma and sonic well logs were obtained to a depth of 208.0 m.

The principal findings at this site were:

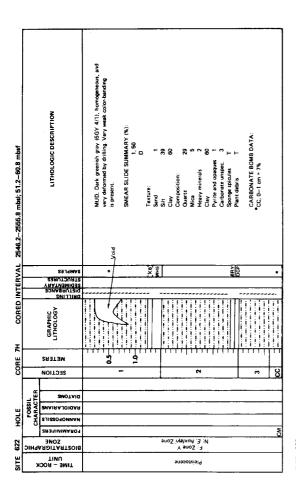
- 1) The channel fill on the concave side of the channel contains a much thicker section of sandy sediments in the basal part of the cored hole than the section at Site 621 on the thalweg of the channel. The pebbly mud unit is at approximately the same elevation in both channel sites (621 and 622) and from the well log interpretation, is underlain by coarser-grained sand deposits.
- 2) The vertical sequences at the two channel sites combined with the interpretations from seismic data tend to indicate that channel migration and aggradation was an active process during the development of the channel.
- 3) Accumulation rates are extremely high; 10.98 m/1000 yr. for the late Wisconsin glacial (Ericson Zone Y) and 29.0 cm/1000 yr. for the Holocene (Ericson Zone Z).

2498.5-2508.1 mbsl; 3.5-13.1 mbsf		LITHOLOGIC DESCRIPTION	MUD, Dominantly very dark gray (5Y 3/1) with MUD	color band laminae of dark gray (5Y 4/1) and black (5Y 2/1). Core disturbance decreases downcore, allowing	better preservation of color band laminae.	SMEAR SLIDE SUMMARY (%):	1, 70	Textire	Sand 0	1.7		sition	Quartz 30	Mics 3	alinonim.		opite	Pyrite and opaques 2	Carbonate unspec. 8	Foraminifers T	Calc. nannofossils	Plant debris 4	Note: Core 3H 2508 1-2517 2 mbel: 13 1-22 7 mbef:	no recovery.			
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CORED INTERVAL 2495.0-2498.5 mbst; 0.0-3.5 mbsf		LITHOLOGIC DESCRIPTION		Section 1, 0-5 cm: SANDY StLTY MUD (15% sand;	50% sitt; 35% clay), Yellowish brown (10YR 5/4),		Section 1, 5 cm-end of core: MUD. Very deformed by	drilling. MUD contains many subtle color changes, the	most important of which include: Section 1 is dominantly	olive gray (5Y 4/2) with major layers and zones of	reddish brown (5Y 4/3). Section 2. 3, and Core Catcher	are dominantly dark gray (SY 4/1-10YR 4/1) with	major layers and zones of very dark gray (10YR 3/1)	and day the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control o	and dark brown (7.51 N 4/2).	CMEAN CLINE CLIMMARY (8)			E	1	0	Sit 15 40 40	82 60	Composition:	Quartz 10 30 21	Feldspar 1 1	Mica 5 2 4	Heavy minerals 2 2 3	Clay 76 60 60	Pyrite and opaques T 1 3	Micronodutes T - T	Carbonate unspec. 7 5 8	Foraminiters T	Sponge spicules T T -	CARRONATE ROMB DATA	• 1 0-10 cm = 28% 1 23-24 cm = 3%			•
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2517.7-2527.2 mbsl; 22.7-32.2 mbsf	LITHOLOGIC DESCRIPTION	SILTY MUD. Very dark gary (2.5YR 3/0) from top of core to Section 4, 75 cm Below Section 4, 75 cm of community control and the section 4, 75 cm below Section 4, 75 cm of community structureless with minor SILT bloths and subtle MUD color bands are especially prevalent in Section 5.0-76 cm. SMEAR SLIDE SUMMARY (%): 2, 70 Texture: 5 and 1 5 and 6 5 and 3 5 and 4 5 and 6 6 and 6 6 and 6 6 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7 and 6 7
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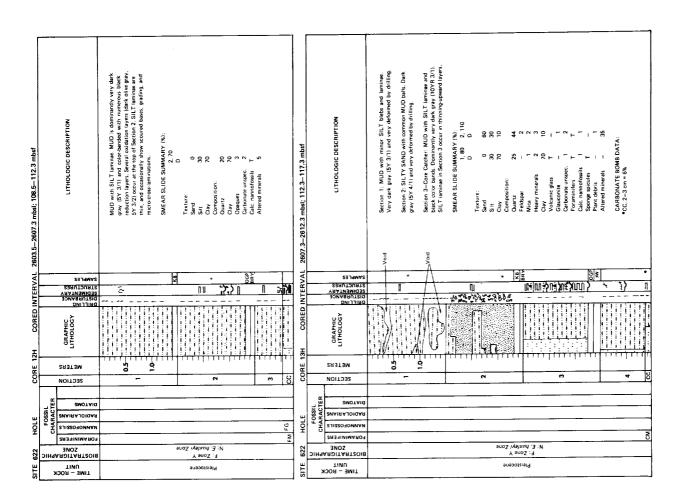
CORED INTERVAL 2556.8-2569.6 mbsl; 60.8-64.6 mbsf		LITHOLOGIC DESCRIPTION	MUD. Dark gray (5Y 4/1), Homogeneous with rare, weak	Cotto Contrat. One large wood Crip at Section 2, 50 cm.	SMEAR SLIDE SUMMARY (%):	1,70	0	Texture:	Sand 0	Sir 60		Composition:	Quartz 39	Feldspar 6	Mica 2	Heavy minerals 1	Clay 45	Opaques 1	Carbonate unspec. 3	Foraminifers T	Calc. nannofossits 1	Radiolarians	Sponge spicules T	Plant debris 2			
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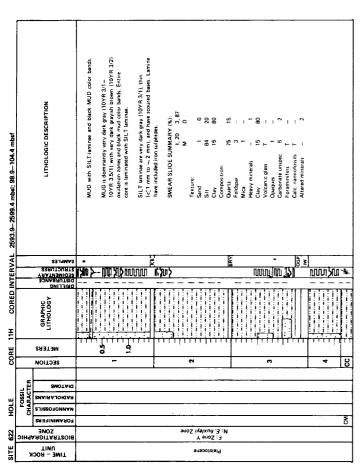
2536.7-2546.2 mbsl; 41.7-51.2 mbsf	LITHOLOGIC DESCRIPTION	MUD Very dark gav (8Y 3/1). Homogeneous with a few white black of crystaline material and minor lighted black section 1. Lead 3 contain lots of gas bubble "pockers". Section 4 is much let gas disturbed. SMEAR SLIDE SUMMARY (%): 1. 50 Texture: Sand Cay Cay Cay Cay Cay Cay Cay Ca
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| | LITHOLOGIC DESCRIPTION | MUD with SILT and SANDY SILT laminae. | Section 1 and Section 3, 0-90 cm consist of dark gray | (57 4/1) and very dark gray (10YR 3/1) homogeneous | Section 1 is 57 4/1; Section 3 is 10YR 3/1. | Section 2 and Section 3, 90-140 cm consist of very dark | gray (10YR 3/1) MUD with gray, brown, and black color | bands and SILT laminae. SILT laminae are normally. | graded and have scoured bases. Iron sulphide is associated with the SILT laminae |
 | Section 4 is similar to Section 2 and the laminated portions of Section 3 but with SAMDY SUIT Improved and 0.000 | thick SANDY SILT bed at Section 4, 72–80 cm. Gas | bubble "pockets" are common. | SMEAR SLIDE SUMMARY (%): | 6 | ٥
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2565.4-2569.1 mbsl; 70.4-74.1 mbsf		LITHOLOGIC DESCRIPTION		MUD. Very dark gray (5Y 3/1) and homogeneous, Core	contains very faint gray (slightly lighter or darker than	5Y 3/1) MUD color bands, especially in Section 3.		SMEAR SLIDE SUMMARY (%):	2.70	0	Texture:	Sand 1	Silt 40	Clay 59	Composition:	Quartz 28	Mica 5	Heavy minerals 4	Clay 58	Pyrite and opaques 1	Carbonate unspec. 3	Calc. nannofossils 1					
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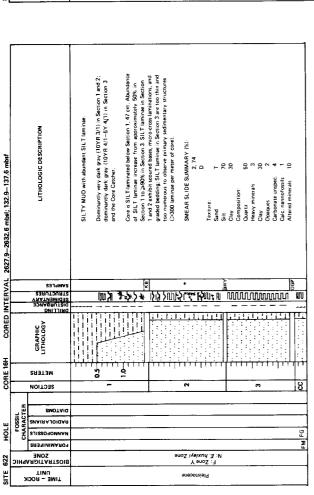
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2618.3-2625.9 mbst; 123.3-130.9 mbsf		LITHOLOGIC DESCRIPTION	MUD with coarse SILT (or very fine SAND) laminae and beds. MUD is extensively color-banded due to oxidation and black reduction layers. MUD is dominantly very dark pay (10YR 3/15); oxidation layers are dark brown (7.5YR 3/2); black bands are 5Y 2.5/1	SILT intentine are deligy to get y 4 41-35 for 1. Laminae ange from ~1 mm up to thin-thick beds (38 cm maximum). SILTS usually have scoured bases and typically are graded.	SMEAR SLIDE SUMMAAP (%): 5, 58 D Texture:	Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sario Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	position:	Fetispal I Misa T Hasou minerals 4		Opaques 10 Carbonate unspec. 10	אונבוסר ווויינו שו אינו אינו אינו אינו אינו אינו אינו אינ	CARBONATE BOMB DA I.A.	
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2612.3-2618.3 mbal; 117.3-123.3 mbsf		LITHOLOGIC DESCRIPTION	MUD with SILT paintage MUD is dominantly very dirk gay (10YR 31) with dark brown (19YR 32) oxidation zones and lear MUD color benes, SILT larnes are thinged on sometimes have sounds bases and appear graded.	SILI Jaminae are dark gray 110 M 4/1). SMEAR SLIDE SUMMARY (%):	2,35 2,115		9	Sin 85 40 Clav 10 60	Composition:	/ minerals _	Clay 60	1	SSIIS	1	Plant debris – 4			
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Sertion 3, 135 cm—Section 4 contains homogeneous, stightly soupy, extremely dark olive gray/black (5Y 2.5/2) SANDY SILT.

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Section 1—Section 3, 135 cm contain thinly laminated (color-banded), dark gray (5Y 4/1) SILTY MUD. Section 3 includes a thickly-laminated interval at 3—7 cm.

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LAMINATED SILTY MUD (Sections 1--3) and homogeneous SANDY SILT (Section 4).

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CORED INTERVAL 2647.1-2652.6 mbsl; 152.1-157.6 mbsf

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CORED INTERVAL 2637.5-2641.2 mbsl; 142.5-146.2 mbsf		LITHOLOGIC DESCRIPTION		Laminae are very thin (2.1 mm) to think (1.5 mm). A homeonesses (1.1 X MID) integral courts. A Carlina	2, 24–30 cm. Section 3, 60–65 cm consists of MUD	with SILT laminae.	SMEAR SLIDE SUMMARY (%):	3.0	re:		Sit 70												
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SANDY SILT. Dark olive gray ISY 3/2), soupy, and homogeneous. Layering is suggested by concentration of heavy minerals, in some cases, leavy preservation is quite good, but in most cases, heavy minerals have fower out of depositional position and spread across the core.

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LITHOLOGIC DESCRIPTION

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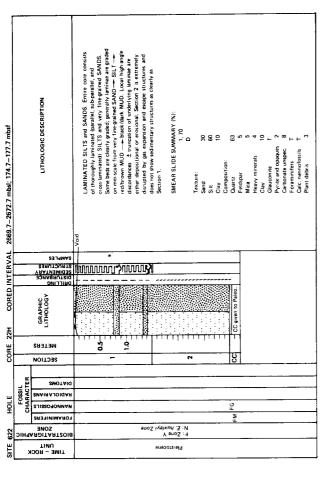
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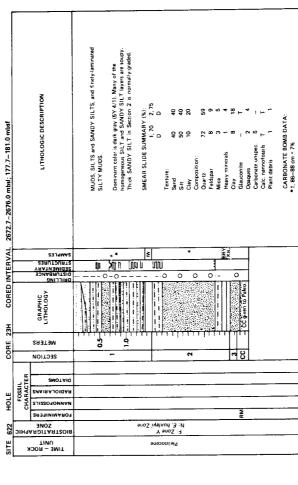
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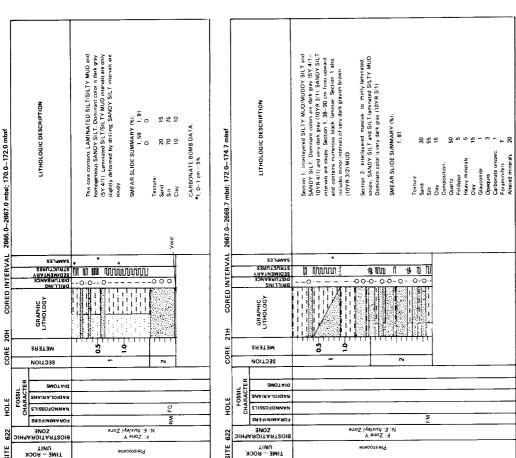
2656.7-2658.7 mbsl; 161.7-163.7 mbsf

CORED INTERVAL

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CORED INTERVAL 2692.9-2694.5 mbsl; 197.9-199.5 mbsf		LITHOLOGIC DESCRIPTION	SILT-laminated MUD. SILT laminae are very thin to thin.	Laminae frequency is approximately 550 laminae/90 cm.	Many of the laminae appear graded.		SMEAR SLIDE SUMMARY (%):	6	× ×	d Texture:	Sand T 10	Sir 35 85	Clay 65 5	Composition:	Quartz - 70	Feldspar – 4	Mica - 5	Heavy minerals - 4	Clay - 5	Pyrite and opaques - 2	Carbonate unspec 10	Sponge spicules – T
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CORED INTERVAL 2682.3-2683.3 mbsl; 187.3-188.3 mbsf		LITHOLOGIC DESCRIPTION	MUD with SILT laminae. Dark gray (5Y 4/1) with minor	color-banding of very dark grayish brown (10YH 3/2) MUD at Section 1, 35–42 cm. Entire core has been very	deformed by drilling.	SMEAR SLIDE SUMMARY (%):	1, 35	.e.		Sit 30		ition:	Quartz 19	Feldspar 2	Mica	, minerals	Clay 70	Pyrite and opaques 2	Carbonate unspec. 3	Calc. nannotossils 1	Sponge spicules T	Plant debris T
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2495.5-2501.0 mbsl; 0.0-5.6 mbsf		LITHOLOGIC DESCRIPTION		Section 1, 0-10 cm: Olive brown (2.5Y 4/4) MARLY	FORAMINIFERAL OOZE.	Section 1, 10 cm - Core Catcher: Homogeneous MUD.	Dark gray (5Y 4/1) in Section 1 and 2; very dark gray	(5Y 3/1) in Section 3, 4, and Core Catcher. Section 2, 3,	4, and Core Catcher contain minor, irregular black color	bands of MUD.	1%) YEAR MALES HOLD SHARE	1.3 1.90		Texture:	01	30	Clay 60 70	Composition:	13	Clav 60 70	nate unspec. 7	8	Calc. nannofossils — T	Altered minerals - 10													
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HOLE 623

Date Occupied: 1 November 1983, 0434 LCT

Date Departed: 2 November 1983, 2130 LCT

Time on Hole: 1 day, 19 hr.

Position (latitude; longitude): 25°46.09'N; 86°13.84'W

Water depth (sea level; corrected m, echo-sounding): 3177

Water depth (rig floor; corrected m, echo-sounding): 3187

Bottom felt (m, drill pipe): 3188.0

Penetration (m): 202.2

Number of cores: 20

Total length of cored section (m): 110.2

Total core recovered (m): 89.24

Core recovery (%): 81

Oldest sediment cored:

Depth sub-bottom (m): 202.2

Nature: clay/silt

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): N/A

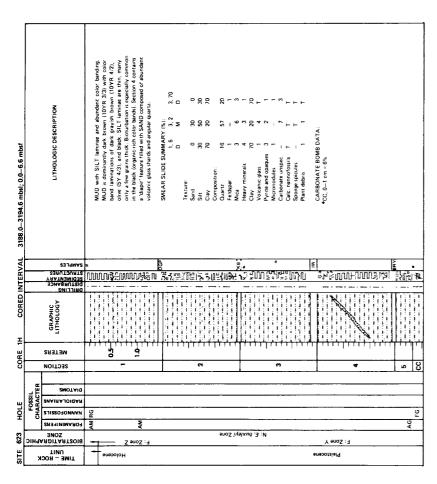
Principal results:

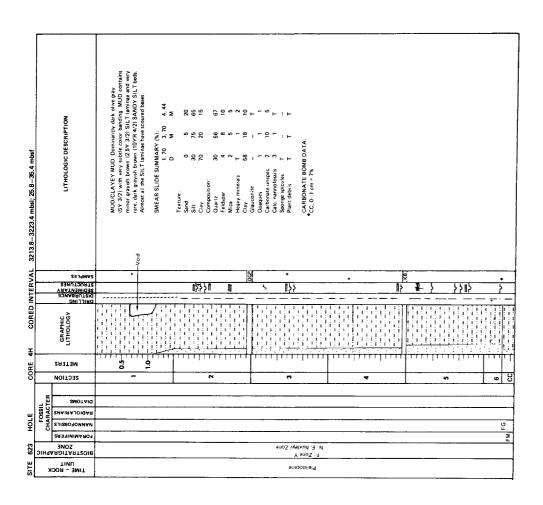
Site 623 was drilled on the lower fan in 3188 m water depth adjacent to the lower fan channel. It is located approximately 55 km north-northwest of Site 615. The hole was cored to a depth of 202.2 m and a gamma ray and sonic log was obtained. The main objective was to define the nature of the lower fan channel processes. Based on the cores, well logs, and seismic data, it appears that the channels in the lower fan tend to shift position frequently during the development of a fan lobe. It is highly probable that several lower fan channels receive sediment from the main channel that is present on the middle fan.

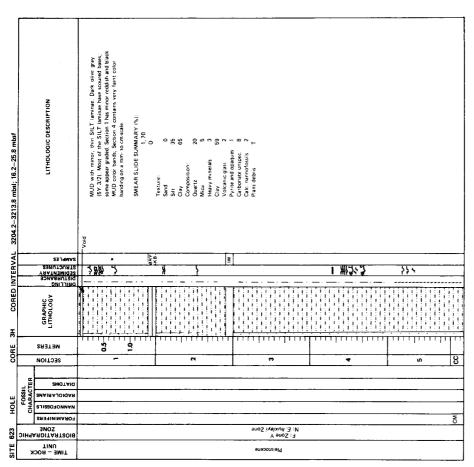
Principal results were:

- The cored interval represents alternating channel fill and overbank deposits.
- 2) All data combined seem to suggest that the channel neither actively migrated nor maintained a stable position throughout the late Wisconsin glacial stage. Instead, it seems that the channel occupied several sites for short periods of time, thus building a series of vertical sequences that represent fining-upward channel fill and coarsening-upward or ragged-patterned overbank deposits.
- 4) Accumulation rates were high; 17.0 cm/1000 yr. for the Holocene (Ericson Zone Z); a minimum of 274.0 cm/1000 yr. for Ericson Zone Y; and based on seismic correlation, 743.0 cm/1000 yr. for the late Wisconsin glacial (Ericson Zone Y).

3194.6-3204.2 mbsl; 6.6-16.2 mbsf		LITHOLOGIC DESCRIPTION	MUD with minor SILT termine. MUD is dominantly very dark gray (5Y 3/1) with lost of coder banding that are mostly variations on 16 3 11, Color banding decreases downcore. Entire one is extensively mothed, SILT igninese occur throughout the core, all less than 1 cm thick.	SMEAR SLIDE SUMMARY (%):	2, 70	Texture:	Sir 25		Quartz 35	Feldspar 4	Mica 4 Heavy minerals T		glass		Plant debris T																		
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3233.0-3242.6 mbsl; 45.0-54.6 mbsf		LITHOLOGIC DESCRIPTION	Dark olive gay (5Y 3/2) MUD with minor SILT laminae and blebs and res SILT's SAND beds (Section 4 and 5). Some of the SILT laminae enhibit scoured bases, grading,	and micro-cross-laminations.	1, 90 3, 120		Sand 0 75	99	osition: 40		₹,		Opaques 3 2	7	fossils 2																
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3223.4-3233.0 mbsl; 35.4-45.0 mbsf		LITHOLOGIC DESCRIPTION	Dark Dive gav (5V 3/2) MUD with minor SLT Taminae and blebs. Care is very deformed by drilling Section 2 exhibits reavy faint color banding Section 4 contain two controls are yet laint color banding Section 4 contain two	on. The latter appears to be a thin 'clastic dyke', but it is	uncertain whether the dyke is related to coring or is a sedimentary structure.	SMEAR SLIDE SUMMARY (%):	2,70	Texture:	_	Sit 30	Composition:	_	Mica 3	minerals	Clay 68	Volcanic glass I		Dec	Calc nannofossils 3	Sponge spicules T															
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3261.8-3267.8 mbst; 73.8-79.8 mbsf		LITHOLOGIC DESCRIPTION	Sections 1–3: Interbedded MUD and SILT. MUD is very dark gay-dark oine gay (5Y 3/1–5Y 3/2) and has SILT cannes and belok. SILT (same are very thin. SILTs are very dark gray-dark gay (5Y 3/1–5Y 4/1) and laminated.	Section 4: Interbedded MUD and SILT, but with a more chaotic relationship than observed in Sections 1-3. A discentinuous SAND bed occurs at Section 4, 35–38 cm.	SMEAR SLIDE SUMMARY (%):	ure:	Sit 90 60 Clay 10 50	- Void Composition: 70 35	⊢'	Heavy minerals 3 – Clav	nic glass T	Opaques 3 1	Calc. nannotossils T T	, ,								
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3242.6-3246.7 mbsi; 54.6-58.7 mbsf		LITHOLOGIC DESCRIPTION	h minor SAND beds, SILT is a Dark olive gray (59' 32'). Sit Is y have scoured bases; SILTY contail laminae and are upgrad contail laminae and 3.70 D	Sund 20 40 65 5 5 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	T T T	3262.2–3257.5 mbsl; 64.2–69.5 mbsf		LITHOLOGIC DESCRIPTION	AND with SLILTY MOD and SLILT hamnes and MNO corour at Section 1, 123 cm—Section 2, 44 cm. SME AR SLIDE SUMMARY (%): D Texture: Composition: Composition: Sint felipper Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Composition: Compositio	-Void
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	LITHOLOGIC DESCRIPTION	Section 1, 0–57 cm and 111–142 cm. Homogeneous MUD with rare St.T blets.	Section 1, 57–111 cm: SILT. Massive from 57–80 cm; laminated from 80–111 cm.	Section 2, 9–120 cm: Contorted and convoluted mixture of	MUD, SILTY MUD, and SILT. Dominantly very dark gray (5Y 3/1) with dark gray (5Y 4/1) zones.	Section 2, 0—9 cm and Section 2, 120 cm—Core Catcher: Milith with Still Tand SANDI laminas and hade Milith is ware	dark gravity brown (1997) SILT and SAND layers	Some of the laminae and beds display socured bases.	SMEAR SLIDE SUMMARY (%):	1, 70 1, 105 1, 122	0 0 0	.a. 2	77 78	20 20		G +	· ·	minerals	•		0	Calc. nannofossils T = T	2
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3271,4-3276,3 mbsl; 83.4-88.3 mbsf		LITHOLOGIC DESCRIPTION 6		-Void gray-dark ofive gray (5Y 3/1–5Y 3/2) and includes SILT	blebs and laminae. Laminae are irregular and contorted.	SILT is very dark gray-dark gray (5Y 3/1-5Y 4/1).	SMEAR SLIDE SUMMARY 1%1:	1, 126	Q	Texture:		Sit 95	Clay 5	esition.	Quartz 65	Feldspar 3	Mica	minerals	Clay 5	Carbonate unspec. 5	Foraminiters 2	Calc. nannofossits T	Plant debris 2	Attered minerals 15	CADBONATE BOND DATA	OCCUPATE DOME DATA	CC, 0-1 cm = 14%						
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3290.6-3297.1 mbsl; 102.6-109.1 mbsf		LITHOLOGIC DESCRIPTION	Shiff MUD with SILTY SAND claru, lens, and fragments, and with SILT immines and blobs. Sedimentary structures are occasionally preserved in the SITS fand SILTY SANDS. But they updately occur as irregular inclusions with no preferred orientation. MUD is eary dark gray [5Y 2]) livery dark olive gay [5X 2] in the Core Carcheri SILT immines are dark olive gay—gay 15Y 32. Carcheri SILT immines are dark olive gay—gay 15Y 32. Vold 5Y 51). SILT SANDS are dark olive gay 15Y 32. Vold Section 4 contains an oxidized cone at 119–130 cm.	Meay minerals	Calc, namorlossis 2 T Plant debris 3 – Altered minerals 4 10		
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Section 1, 30 cm—Core Catcher: Dark olive gray (5Y 4/2), structureles SLLTY SAND. Several MUD balls occur at Section 1, 60–65 cm.

Section 1, 15–30 cm: Homogeneous, very dark gray (5Y 3/1), very deformed MUD.

Section 1, 0-15 cm: Very deformed mixture of SILT, SAND, and MUD. Deformation probably due to core disturbance.

LITHOLOGIC DESCRIPTION

DISTURBANCE SEDIMENTARY STRUCTURES STRUCTURES

SECTION

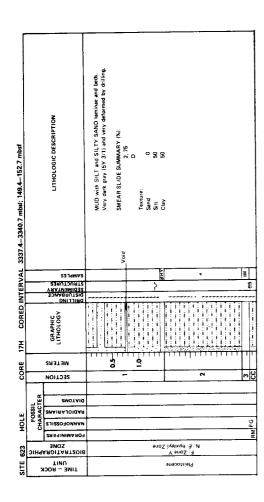
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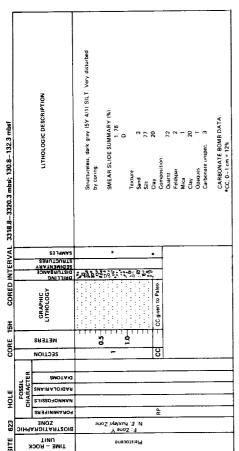
CORE 13H

HOLE

	SMEAR SLIDE SUMMARY (%):	CC, 10	0		OG S			sition:		Feldspar T	glass		Carbonate unspec. 3	Altered minerals 12	3309.6-3313.2 mbsi; 121.4-125.2 mbst			LITHOLOGIC DESCRIPTION		MUD with SILT laminae and SILTY SAND beds.	i :	MUD is very dark gray (5Y 3/1) and stiff. There are very subtle color bands throughout the MUD, especially in	Section 2.	SILT laminae are gray/medium gray (10YR 6/1) and very	thin Laminae occasionally show scoured bases and micro-	cross laminations. SILT laminae are most abundant in	Section 2.	SILTY SAND beds are dark gray—dark olive gray	(5Y 4/1-5Y 4/2) and range from 1-10 cm thick;	"beds" in Section 3 are quite contorted.	SMEAR SLIDE SUMMARY (%):			.e:	99	34 50	osition:	70	-	2	minerals 2	I		54		• 2 1 2 cm = 12%
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CORED INTERVAL 3350.7-3360.1 mbsl; 162.7-172.1 mbsf		LITHOLOGIC DESCRIPTION	SSIMWYS		to Schipboard paleontologists.						
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		GRAPHIC									
CORE 18H		ZEBS		'							
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SITE	K	208 -	TIMIT	L_	aua	Pierstoc					
	LITHOLOGIC DESCRIPTION		Section 1, 0-11 cm: Gray (5Y 5/1), medium-coarse SAND composed of 93% quartz, 5% rock fragments.	1% glauconite, and 1% shell fragments.	i 1, 11—36 cm : Dark gray (5Y 4/1), possibly graded SAND.	Section 1, 36–49 cm: Very dark gray (5Y 3/1) MUD with irregular SILTY SAND and SILT laminae.	Section 1, 49 cm—Section 2, 140 cm.: Massive, very dark gray (5Y 3/1) SILT.	Section 3 and Core Catcher: Very dark gray (5Y 3/1) MUD with minor, irregular SILTY SAND and SILT iaminae. SILTY SAND is dark olive gray (5Y 4/2).	R SLIDE SUMMARY (%): 2, 70 D		
			Section	1% glau	Section 1, 11- SILTY SAND	Section	Section gray (5)	Section MUD w	SMEAR SLI	Texture Sand	ž (
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CORED INTERVAL 3328.1-3332.4 mbsi; 140.1-144.4 mbsf

16H

SITE 623

RETERS

SECTION

SMOTAIG SMOTAIG

F: Zone Y N: E: huxleyi Zone AG CG

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CORED INTERVAL 3360.1-3360.3 mbsl; 172.1-172.3 mbsf		LITHOLOGIC DESCRIPTION	MUD with rare SILT laminae and blebs. Very dark gray	(5Y 3/1). Sediment was recovered in the Core Catcher,	rest of the core was empty.	SMEAB SLIDE SUMMARY (%):	CC. 5	Q	Texture:	Sand	Sit 30	Clay 69	Composition:	Quartz 21	Mica 4	Heavy minerals 4	Clay 68	Pyrite and opaques 1	Carbonate unspec. 1	Caic. nannotossils 1	Plant debris	
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CORED INTERVAL 3379.0-3379.2 mbs; 191.0-191.2 mbsf		LITHOLOGIC DESCRIPTION		Cace was EMPTY but fullers are native or cond was probably coasse grand leaded. But of material in core liner gwen to shipboard palkontologists.
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SITE 623	_	TIME - ROCI		Pleistocene

HOLE 624

Date Occupied: 3 November 1983, 0339 LCT

Date Departed: 4 November 1983, 1525 LCT

Time on Hole: 1 day, 12 hr.

Position (latitude; longitude): 25°45.24'N; 86°16.63'W

Water depth (sea level; corrected m, echo-sounding): 3183

Water depth (rig floor; corrected m, echo-sounding): 3193

Bottom felt (m, drill pipe): 3198.2

Penetration (m): 199.9

Number of cores: 23

Total length of cored section (m): 109.8

Total core recovered (m): 75.32

Core recovery (%): 69

Oldest sediment cored:

Depth sub-bottom (m): 199.9

Nature: clay and mud

Age: Pleistocene (Ericson Zone Y)

Measured velocity (km/s): N/A

HOLE 624A

Date Occupied: 5 November 1983, 0210 LCT

Date Departed: 6 November 1983, 2100 LCT

Time on Hole: 1 day, 19 hr.

Position (latitude; longitude): 25°45.24'N; 86°16.63'W

Water depth (sea level; corrected m, echo-sounding): 3183

Water depth (rig floor; corrected m, echo-sounding): 3193

Bottom felt (m, drill pipe): 3198

Penetration (m): 207.6

Number of cores: 22

Total length of cored section (m): 103.7

Total core recovered (m): 86.76

Core recovery (%): 84

Oldest sediment cored:

Depth sub-bottom (m): 197.1

Nature: sand and clay

Age: Ericson Zone Y (upper Wisconsin glacial)

Measured velocity (km/s): N/A

Principal results:

Site 624 was located on the lower fan, about 3 miles west of Site 623. Good core recovery was obtained to a depth of about 55 m, using the Hydraulic Piston Corer. Below that depth recovery decreased irregularly and below 135 m sub-bottom core recovery was very poor. A well log run was made between 52.5 and 197.0 m sub-bottom on Hole 624A because of a stuck extended core barrel in Hole 624. Drilling was terminated at a depth of 199.9 m sub-bottom.

The principal findings at this site were:

- 1) The cored and logged sediment section basically represents one indistinct upward-fining sequence with many small perturbations,
- 2) We can interpret the section as consisting of overbank deposits with several indistinct thin channel fills,
- 3) The conclusion reached at Site 623 that this area of the lower fan is more characterized by one active channel that occupies different sites for short periods of time rather than being in a stable position or being migratory, is still valid.
- 4) Accumulation rates are high: 731 cm/1000 yr. for the late Wisconsin glacial stage (Ericson Zone Y) and 12.5 cm/1000 yr. for the Holocene (Ericson Zone Z).

3205.1-3214.7 mbsl; 6.9-16.5 mbsf		LITHOLOGIC DESCRIPTION	MUD with SLT laminae.	MUD is very dark grayish brown (2.5V 3/2) in Section 1 and dark olive gray (5Y 3/2) in the rest of the core.	SILT laminae are dark olive gray (5V 3/2) and subtle variations on that color.	MUD is somewhat color banded, but color variations	are subtle and decrease in abundance downcore.	SILT laminae are very thin to thick, are often micro- laminated and crossbedded, and commonly have scured	bases. No grading was observed. Abundance of SILT laminae increases downcore; those in Section 4, 60–142	cm and Section 5 and Core Catcher are too numerous: to draw in individually on "Graphic Lithology" column.	SMEAR SLIDE SUMMARY (%):	2.80 3,63	i i	Sand 0 0 0 Sir 40 75	9		par 5 1	Mica 4 4 Heav minerals 7 1	84 .		Cate, nannofossils 1 1										
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3198.2-3205.1 mbsl; 0.0-6.9 mbsf	LITHOLOGIC DESCRIPTION	Entire core consists of color-banded MUD with rare SILT termines, Section 1, 0 – 22 cm is brown (100 R 4/3), grading in color to the underlying section, 22–190 cm is dark gayant bown (100 R 4/3) with minor dark reddin gay (574 4/2) and bown (100 R 4/3) with minor dark reddin gays (574 4/2) and bown (100 R 4/3) with dark reddish bown-reddish brown (100 R 4/3) with dark reddish bown-reddish brown (100 R 4/3) with dark reddish section 2 is dark brown (100 R 3/3) with dark reddish brown (18 R 4/2–5 R 5/2) color bands. Rest of core (Section 3, 4, 5, and Core Catcher) is dark gays (57 4/1) changing downcore to dark only gays (1)	of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of th	Sund 0 0 0 7 Sund 0 0 0 0 7 Sult 46 30 36 96 Clay Charter 30 22 19 61 Februar 2 1 3 4 1 Mica 3 1 3 5 Clay Clay 64 7 64 1 Clay Clay 64 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Purple and opsques — T 1 1 1 Micronobles	CARBONATE BOMB DATA. 1, 1,2-20 cm = 1% 1, 5-6 cm = 8% 1, 10-11 cm = 15% 1, 17-18 cm = 2% 3, 41-42 cm = 5%
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SITE 6	TIME - BOCK UNIT	Holocene			otsielq	

.7 mbsf		LITHOLOGIC DESCRIPTION	MUD with SLT famine. Dark olive gray (5Y 3/2), SLT amines comprise, 15–20% of the core in Section 1 and Section 5 and are not drawn in "Craphic Lithology".	as individual laminae; laminae are less abundant in Sections 2—4 are individual laminae are nictured \$11.T	laminae are very thin to thin and include lots of sedi-	mentary structures such as scoured bases, grading, and	made: peraner and chost atminister in Section 5, 50–60 cm define two folds.	~	2, 70 4, 67		0 0				0,000					~ :	, , , , , , , , , , , , , , , , , , ,													
AL 3224.3-3233.9 mbsl; 26.1-35.7 mbsf		THE STANKING	MUD with SILT laminae compris Section 5 and	Sertions 2-4 at	laminae are ver	mentary structu	Section 5, 50-6	SMEAR SLIDE		Texture		ris.	Clay	Composition	Feldspar	Mica	Heavy minerals	Clay	Opadnes	Carbonate unspec.	Plant debris			<u>₹</u>				*						
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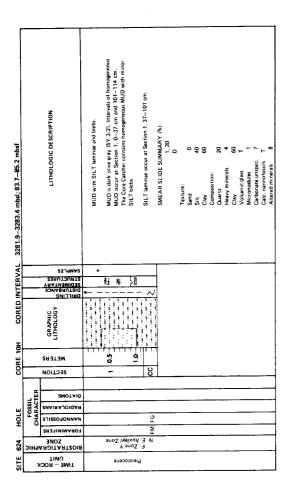
3214.7-3224.3 mbat; 16.5-26.1 mbaf		LITHOLOGIC DESCRIPTION	Void MUD with SLT laminae and biebs	Dominantly dark olive gray (5V 3/2) with interval of very dark graych brown (2 6Y 3/2) at Section 1, 0–50 cm and dark brown at Section 3, 0–91 mr. SLI'l hamne are very thin to thin, and commonly show scoured bases and micro-cross laminations, and are graded.	SMEAR SLIDE SUMMARY (%): 1, 70	Texture: 0 Sixed 35 Sixed 35	position	1	nerals	Opaques 2 Carbonale unspec. 2 Carbonale unspec. 3 Caic namofresis 3									
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3243.5-3253.1 mbst; 45.3-54.9 mbsf		LITHOLOGIC DESCRIPTION	CLAY with SILT laminae.	CLAY is dark olive gray (5Y 3/2).	SILT laminae are very thin to thin. Most laminae show grading, scoured bases, and micro-cross-lamination.	Core shows a lot of deformation including microfaults and irregular blebs. Section 1 contains a vertical shear	plane from U/U cm, as indicated by SIL I laminae offsets.	SMEAR SLIDE SUMMARY (%):	1, 76 D	::	O pugs	SST 15	oxition	Quartz 25	_		Heavy minerals 1	ser	e unspec.	Cate, nannofossils 3	Plant debris T									
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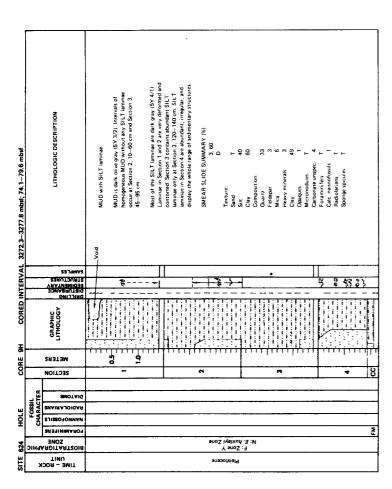
3233.9-3243.5 mbsj; 36.7-45,3 mbsf		LITHOLOGIC DESCRIPTION	MUD with minor SILT lamines and bids. Dark olive gay (3Y 3/2), Section 1–3 are very deformed by defilling. Section 1–3 are very deformed by defilling. Section 1 and 2 contrap induced fault defininguished by others and deformed SILT lamine oriented to high single core causis Section 4–6 are only moderately deformed and contain thin SILT lamine that have scoured bases and internal micro-cross tammer core and are graded. SILT lamine that have scoured bases and internal micro-cross tammer cored section.	SMEAR SLIDE SUMMARY (%): 1, 70 Texture:	Mica Hway minerals 4 Clay Clay Voice and operates 1 Printe and operates 1 Microniologies 7 Calcia manifoldis 1 Spronge spouler 7 Peant debrit 7	CARBONATE BOMB DATA. *CC, 0-1 cm = 11%
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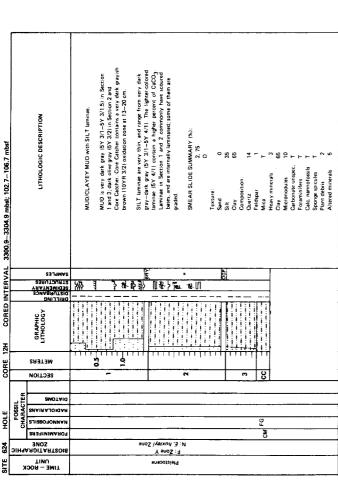
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3262.7-3272.3 mbsl; 64.5-74.1 mbsf		LITHOLOGIC DESCRIPTION	MUD with SILT leminae.	MUD is dark olive gray (6Y 3/2). Some of the MUD control stiller MUD layers with sharp bases, but these appril your distiller.	SILT laminae occur as: (1) lighter-colored (gray to light	gray; 5Y 5/1-5Y 6/1) thin SILT laminae with well.	developed sedimentary structures; and, (2) darker-colored (dark grav. 5Y 4/1) very disturbed SLLT laminae. The	latter is especially well exhibited at the top of Section 2.	SMEAR SLIDE SUMMARY (%):	1, 15 1, 52 1, 65		Texture:	0 0	Sit 40 90 90	90	sition:	8 '	_ 	minerals T 2	Clay 38 8 9	ues 3 2	a unspec. 6 16	-		CAMBONALE BOMB DATA:	200
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3253.1-3258.0 mbsl: 54.9-59.8 mbsf		LITHOLOGIC DESCRIPTION	MUD with SILT laminae. Dark olive gray (5Y 3/2). SILT	laminae are thin; some display scoured bases, grading, and internal micro-laminations.	SMEAR SLIDE SUMMARY (%):	1, 63	Texture		•		Composition:	Quartz 30	aer.		minerals	.,		Carbonate unspec. 3	Calc. nannotossils 2										
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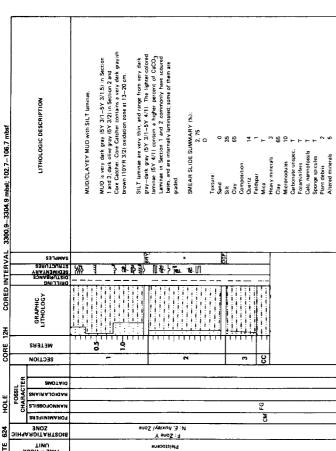


3291.5–3293.6 mbd; 93.3–95.4 mbsf	LITHOLOGIC DESCRIPTION	MUD with very deformed, contorted, convoluted SILT	beds. MUD is very dark gray (5Y 3/1); SILT is dark gray (5Y 4/1). Core Catcher contains SILT laminae rather then	SILT beds.	SMEAR SLIDE SUMMARY (%):	2, 20 2, 25		Texture:	0	Sit 30 94	Clay 70 5	Composition:	Quartz 10 60	Mica	Heavy minerals – 5	Clay 70 5	Volcanic glass T -	Opaques 1 1	Micronodules T -	Carbonate unspec. 10 10	Calc. nannofossils T -	Altered minerals 9 18	CARBONATE BOMB DATA:	• CC, 4-6 cm = 13%	
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	TIME - ROCK					. ac.		iald F:						_								_			





3325.3-3329.1 mbsl; 127.1-130.9 mbsf		LITHOLOGIC DESCRIPTION	Section 1: MUD with rare SLIT lamines, as shown in "Gaphic Lithology" column, MUD is very dark gray (5Y 3/1); SLIT lamines are dark gray (5Y 4/1); SILT	laminae are very thin to thin; SILT is slightly coarser than in the previous cores.	Section 2: MUD with deformed SANDY SILT layers.	MUD is very dark gray (5Y 3/1). SANDY SILT layers	are dark gray (5Y 4/1), convoluted and contorted, and	make up about 30-35% of the section.	Section 3: Homogeneous SILT with coarser SANDY	SILT layers are Section 3, 27-29 and 43-48 cm. SILT	is very dark gray (5Y 3/1); SANDY SILT is dark gray	(6Y 4/1).	SMEAR SLIDE SUMMARY (%):	75	0 0	.e:	_	Sit 40 62	ocition.	Quartz 24 82	7	-		28	-	Carbonate unspec. T 2	Foraminiters 1 T	Calc. nannofossils 1 T	les 7	Plant debris 4 2	CARBONATE BOMB DATA:
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CLAY, with minor, discontinuous and continuous SILT laminae as shown in "Graphic Lithology" column. CLAY is dominantly dark olive gray (5Y 3/2).

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F: Zone Y N: £. huxleyi Zone

SMEAR SLIDE SUMMARY (%): 1, 45 D

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Texture:
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Camposition:
Quartz
Clay
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Altered minerals

LITHOLOGIC DESCRIPTION

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GRAPHIC LITHOLOGY

RETERS SECTION

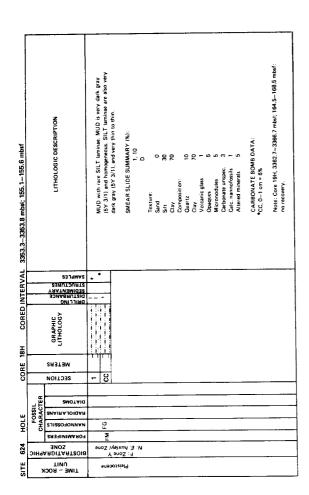
SMOTAIG SMAIRAJOIDAR

INOSTRADITGRAPI

TIME - ROCK

CORED INTERVAL 3316.0-3317.0 mbsl; 117.8-118.8 mbsf

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3366.7-3368.2 mbsl; 168.5-170.0 mbsf		LITHOLOGIC DESCRIPTION	d MUD SITTLAM T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL. T, and SANDY SIL	Opeques
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624		ARDITARTZOIR		
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3334.6-3338.0 mbsi; 136.4-139.8 mbsf		LITHOLOGIC DESCRIPTION	MUD with thin, irregular SILT laminae and thick SANDY	SILT laminae and massive beds. MUD is very dark gray	(5Y 3/1); SILT laminae are light gray (5Y 5/1-5Y 7/1);	SANDY SILT laminae and beds are dark gray (5Y 4/1).	SANDY SILTS in Section 2 are very deformed, likely the		SMEAR SLIDE SUMMARY (%):	2, 85	a	Texture:		Sir 35		Composition:	Quartz 20	Clay 65	Opaques 2	Micronodules 1	Carbonate unspec. 4	Calc. nannofossils 1	Altered minerals 8
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CORED INTERVAL 3343.9-3344.9 mbsl; 145.7-146.7 mbsf		LITHOLOGIC DESCRIPTION	MUD with a few SILT laminae. MUD is very dark gray (5Y 3/1). SILT laminae are gray (5Y 5/1) and very thin to thin.	
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SITE 624		TIME - ROC	anacossial9	
				

CORED INTERVAL 3388.6-3398.1 mbsl; 190.4-199.9 mbsf		LITHOLOGIC DESCRIPTION		Core consists of two balls of dark olive gray (5Y 3/2)	CLAY in a sea of dark grayish brown (2.6Y 4/2) SAND.	SMEAR SLIDE SUMMARY (%):	1,5 1,9	0 0	Texture	Sand 0 95	20	Clay 80 5	Composition:	Quartz 10 84	Feldspar 1 5	Mica 3	Heavy minerals 3 -	Clay 79 5	Opaques 2 5	Carbonate unspec. 1 1	Calc. nannofossils 1 –
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SITE	<u>></u>	TIME - ROCI		əuə	ootsi	eld.									_			_			

5 mbsf		LITHOLOGIC DESCRIPTION	SILTY SAND. Homogeneous, very dark gray—dark gray	(5Y 3.5/1), and very deformed by drilling. A mod ones	74 cm.	AMARY (%):	1, 42	0		- 22	43	2		74	-	_	3	2		_	-	_	15
3368.2-3368.7 mbsl; 170.0-170.5 mbsf		LITHOL	SILTY SAND. H	(5Y 3.5/1), and	occurs at Section 1, 24 cm.	SMEAR SLIDE SUMMARY (%):			Texture:	Sand	Sit	Clay	Composition:	Quartz	Feldspar	Mica	Heavy minerals	Clay	Volcanic glass	Carbonate unspec	Foraminifers	Calc. nannofossils	Altered minerals
		DRILLING DISTURBANCE SEDIMENTARY SEDIMENTES SAMPLES		*																		_	
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CORED INTERVAL 3377.7—3379.1 mbs; 179.5—160.9 mbs;		LITHOLOGIC DESCRIPTION		Only a little bit of MUD was recovered in the Core Catcher	of this core. The entire sample was given to the shipboard paleontologists.
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SILE 624		TIME - ROC	1		Pleistocene

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3205.5—3215.1 mbst; /.5—1/.1 mbst		PILHOFOGIC DESCHIALION							
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3198.0-3205.5 mbsl; 0.0-7.5 mbsf		LITHOLOGIC DESCRIPTION	Section 1, 0–10 cm: MARLY FORAMINIFERA OOZE. Dark yellowish brown (10YR 4/4), grading into MUD below.	Section 1, 10 cm—Section 3, 150 cm: MUD. Mainly dark bown (10YR 323) with brown (16 YR 423) MUD color bands from Section 1, 10 cm to Section 2, 59 cm. Mainly very date, gavith brown (15X 9/32) with dark brown (7 YR 9/3) color bands from Section 2, 99	cm—Section 2, 150 cm A dark brown (15 M 3/2), meteral occurs at Section 3, 42–56 cm, a dark pavish brown (10/8 4/2) meteral occurs at Section 3, 58–82 cm MUD copt abedity or my or smaller cash and the color variations are subtite.	Biourbation has disturbed some of the primary bedding. Thin, are SLT lamines and sitchlied burrows occur as shown in the "Graphic Lithology" column. Sections 4. 5, and Core Calcher are reserved to shore.	based georechnicklistudes. SMEAR SLIDE SUMMARY (%): D Tanner	Sand Sand O Sand O Sand O Sand O Sand O Sand O Sand O Clay Clay 70 Clay Clay 70 Clay Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 Clay 70 C	ninerals ss are unspec. nifers annofossils	Plant debris. Note: This is the very last core ever described aboard the famous research vessel Gionar Challenger.	
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