USGS CORE STATION LOG

SHIP/LEG 91-AV-19/2

STATION # GC-1

CORE # 1

DEPTH(m) 5130

DEPTH(m)corrected _____

DATE JD 134 LOCAL 5/14/91

TIME GMT 015 LOCAL 14 15

LATITUDE 16°27.3'N TO _____

LONGITUDE 162°31.2'W TO _____

TOTAL CORE LENGTH _____

TYPE OF STORAGE: DRY _____ COLD _____ FROZEN _____

SEDIMENTARY STRUCTURES _____

CORE DESCRIPTIONS

DEPTH INTERVAL	SUBSAMPLES	LITHOLOGY
0-52 (cm)	5 YR 5/2	Moderate Brown sandy clay
52-56	10 YR 4/2	Dark Yellowish Brown Silt well uniform grain size Turbidite?
56-70	5 YR 3/2	Greyish Brown Clay very smooth texture
70-76	10 YR 5/4	Moderate Yellowish Brown Smooth Clay
76-79	10 YR 8/2	Very Pale Orange fine silty Clay w/ Black specks
79-83	10 YR 5/4 & 5 YR 5/2	Moderate Yellowish Brown Clay with pieces of moderate brown clay bioturbated

described by J.W.

USGS CORE STATION LOG

2

SHIP/LEG _____

STATION # _____

CORE # _____

DEPTH(m) _____

DEPTH(m)corrected _____

DATE JD _____ LOCAL _____

TIME GMT _____ LOCAL _____

LATITUDE _____ TO _____

LONGITUDE _____ TO _____

TOTAL CORE LENGTH _____

TYPE OF STORAGE: DRY _____ COLD _____ FROZEN _____

SEDIMENTARY STRUCTURES _____

CORE DESCRIPTIONS

DEPTH INTERVAL	SUBSAMPLES	LITHOLOGY
83-92 (cm)	10 YR 5/4	Moderate Yellowish Brown Clay with lesser amount of Dusky Dark Piece
92-98	10 YR 7/4	Grayish Orange Smooth Clay speckled with Moderate Brown Clay
98-99	10 YR 8/2	Very Pale orange foram sand with dark sand grains (A very thin white layer on top inner w/ dirty (90R)
99-109	5 YR 2/2	Dusky Brown Silt
109-111	10 YR 8/2	Very Pale Orange Foram Sand dirty white concentrated more on bottom and white Clean part on top

USGS CORE STATION LOG

HIP/LEG _____

TATION # _____

:ORE # _____

EPTH(m) _____

EPTH(m)corrected _____

DATE JD _____ LOCAL _____

TIME GMT _____ LOCAL _____

LATITUDE _____ TO _____

LONGITUDE _____ TO _____

TOTAL CORE LENGTH _____

YPE OF STORAGE: DRY ____ COLD ____ FROZEN ____

EDIMENTARY STRUCTURES _____

CORE DESCRIPTIONS

DEPTH INTERVAL	SUBSAMPLES	LITHOLOGY
111 - 121	5 YR 2/2	Dusky brown silty clay
121 - 138	10 YR 4/2	Dark Yellowish Brown smooth clay with Moderate Brown smooth clay bioturbated
138 - 141		Dirty White Foram sand
141 - 150	5 YR 2/2	Dusky brown smooth clay
150 - 168	10 YR 6/2	Smoo Pale Yellowish Brown Cla with pieces of Dusky brown Bioturbated

USGS CORE STATION LOG

HIP/LEG _____

TATION # _____

:ORE # _____

EPTH(m) _____

EPTH(m)corrected _____

DATE JD _____ LOCAL _____

TIME GMT _____ LOCAL _____

LATITUDE _____ TO _____

LONGITUDE _____ TO _____

TOTAL CORE LENGTH _____

YPE OF STORAGE: DRY ____ COLD ____ FROZEN ____

EDIMENTARY STRUCTURES _____

CORE DESCRIPTIONS

DEPTH INTERVAL	SUBSAMPLES	LITHOLOGY
168 - 174		Transitional stage between Pale Yellowish Brown & White clay layer
	10 YR 8/2	Very pale orange almost smooth clay uniform grain size
174 - 180	5 Y 8/1	Yellowish gray fine silty clay (same texture as above)
180 - 195	5 Y 8/1 upward grading	(Dirty) Yellowish gray foram sand (black specks)
195 - 202	Some laminated structures defined by black specks	Slightly Tanner Yellowish gray foram sand slightly grain size than above

Note: From 3 layers determined by forams
Age - Oligocene 90% of foram
Few were some Maastrichtian & Paleocene

USGS CORE STATION LOG

SHIP/LEG _____

STATION # _____

CORE # _____

DEPTH(m) _____

DEPTH(m)corrected _____

TYPE OF STORAGE: DRY _____ COLD _____ FROZEN _____

SEDIMENTARY STRUCTURES _____

DATE JD _____ LOCAL _____

TIME GMT _____ LOCAL _____

LATITUDE _____ TO _____

LONGITUDE _____ TO _____

TOTAL CORE LENGTH _____

CORE DESCRIPTIONS

DEPTH INTERVAL	SUBSAMPLES	LITHOLOGY
202 - 220	10 YR 5/4 w/ 5 YR 2/2	Moderate Yellowish Brown smooth clay with Dusky Brown pieces of smooth clay - Bioturbation more on top and lesser on bottom
220 - 221		Fine silty white Clay with Moderate Yellowish Brown clay pinching out or in streaks - light sprinkled black specks
221 - 240		Greyish brown & Dusky brown smooth clay Top 1/2 (7 cm) slightly lighter than bottom 1/2 (11 cm)

some bioturbation

USGS CORE STATION LOG

HIP/LEG _____

TATION # _____

ORE # _____

EPTH(m) _____

EPTH(m)corrected _____

DATE JD _____ LOCAL _____

TIME GMT _____ LOCAL _____

LATITUDE _____ TO _____

LONGITUDE _____ TO _____

TOTAL CORE LENGTH _____

YPE OF STORAGE: DRY ____ COLD ____ FROZEN ____

EDIMENTARY STRUCTURES _____

CORE DESCRIPTIONS

DEPTH INTERVAL	SUBSAMPLES	LITHOLOGY
240 - 247		Yellowish Grey silty clay w/ the mixture of Dusky brown & (transition color) Grayish Orange
	Greyish Or. 10YR 7/4	
247-261		Dusky Brown silty clay with white specks
261 - 280		Dirty Yellowish Grey Foram sand some upgrading Near top 2' Pale Yellowish Brown laminations streaks
	10YR 6/2	

USGS CORE STATION LOG

SHIP/LEG _____

STATION # _____

CORE # _____

DEPTH(m) _____

DEPTH(m)corrected _____

DATE JD _____ LOCAL _____

TIME GMT _____ LOCAL _____

LATITUDE _____ TO _____

LONGITUDE _____ TO _____

TOTAL CORE LENGTH _____

TYPE OF STORAGE: DRY _____ COLD _____ FROZEN _____

SEDIMENTARY STRUCTURES _____

CORE DESCRIPTIONS

DEPTH INTERVAL	SUBSAMPLES	LITHOLOGY
280 - 284.5	no subsample	beautiful burrows
	GB · 5 YR 3/2 PYB 10 YR 6/2 PB 5 YR 5/2	Mixture of Grayish Brown, Pale Yellowish Brown Pale brown & Little bit of White Clay and at the base Yellowish Gray Foram sand
284.5 - 292.5		Mixture of Dusky Brown, Grayish brown, Pale Brown Silty clay Bioturbated

USGS CORE STATION LOG

SHIP/LEG _____

STATION # _____

CORE # _____

DEPTH(m) _____

DEPTH(m)corrected _____

DATE JD _____ LOCAL _____

TIME GMT _____ LOCAL _____

LATITUDE _____ TO _____

LONGITUDE _____ TO _____

TOTAL CORE LENGTH _____

TYPE OF STORAGE: DRY ____ COLD ____ FROZEN ____

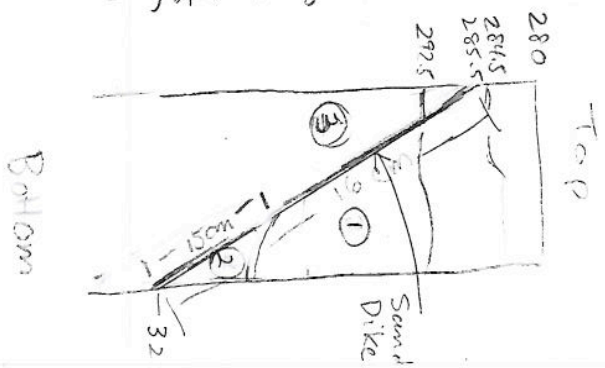
SEDIMENTARY STRUCTURES _____

CORE DESCRIPTIONS

DEPTH INTERVAL	SUBSAMPLES	LITHOLOGY
See Picture at bottom		
(1) 292.5 - 308.5	10 YR 7/4	Grayish Orange with Moderate Brown bioturbated pieces of smooth clay w/ some silt
(2) 308.5 - 322		Dusky Brown smooth clay w/ some silt & some bioturbated pieces of Pale Yellowish Brown Sand Dike
285.5 - 322		Dirty-Pale Yellowish Brown Foram Sand coarse grained well sorted

Note: Have a sand dike cutting at an angle through last several lay

From 285.5 to 320 mm



USGS CORE STATION LOG

SHIP/LEG _____

STATION # _____

CORE # _____

DEPTH(m) _____

DEPTH(m)corrected _____

DATE JD _____ LOCAL _____

TIME GMT _____ LOCAL _____

LATITUDE _____ TO _____

LONGITUDE _____ TO _____

TOTAL CORE LENGTH _____

TYPE OF STORAGE: DRY ____ COLD ____ FROZEN ____

SEDIMENTARY STRUCTURES _____

CORE DESCRIPTIONS

DEPTH INTERVAL	SUBSAMPLES	LITHOLOGY
③291 - 330	10 YR 6/2	Pale Yellowish Brown Smooth Clay
330 - 335		Core Catcher sample Pale Yellowish Brown Smooth Clay
335 - 340		Core Catcher sample Pale Yellowish Brown Smooth Clay

USGS CORE STATION LOG

SHIP/LEG 91-AV-1912

STATION # _____

CORE # GC-4

DEPTH(m) 1670

DEPTH(m)corrected _____

DATE JD 144 LOCAL 5/14/91

TIME GMT 1032-1054 LOCAL 0032-

LATITUDE 17°21'5 TO _____

LONGITUDE 168°41'0 TO _____

TOTAL CORE LENGTH _____

TYPE OF STORAGE: DRY ____ COLD ____ FROZEN ____

SEDIMENTARY STRUCTURES _____

CORE DESCRIPTIONS

DEPTH INTERVAL	SUBSAMPLES	LITHOLOGY
1650m		Dirty Beige foram sand with black crust fragm
		retrieve from core catch
		in Rose Bengal

GC-1

Interval, cm	Description
0-52	Sandy clay brown with the bioturbation traces a density of which is increasing downwards Contact with the underlying sediment is gradua
52-56	Silty sand dark gray-brown (calcareous). Fissile horizontal bedding. Sharp and flat contact.
56-76	Clay with the bioturbation traces. The colour is changing from dark brown (56-65 cm) to light ~~brown~~ yellowish brown (69-76 cm) what is obviously related to the bioturbation. Clay is becaming more calcareous downward. Contact is sharp and rough.
76-79	Foram sand with lenses of light yellowish brown clay extending in horizontal direction.
79-92	Sandy clay calcareous with the bioturbation traces (light brown with dark brown spots). Sharp flat contact.
92-98	Packet of thin (up to 4 mm) layers and lenses of foram sand ~~cl~~ clayey in various degree. There are very clean foram sand layers in the top and bottom of the packet. Sharp flat contact.

98-109 Sandy clay calcareous dark brown [illegible] rough contact.

109-111 . Foram sand. Sharp rough contact.

111-138 Clay dark brown in 111-128 cm and light yellowish brown with dark brown spots and lines (bioturbation traces) in 128-138 cm. Sharp rough contact.

138-141 Foram sand including a lot of dark coloured sand-size graines (volcanic glass, Mn crust clasts and so on). Sharp rough contact.

141-168 Sandy clay calcareous light brown with dark brown spots and lines (bioturbation traces) increasing downward. Contact is gradual.

168-202 Foram sand including dark coloured sand-size grains (10-50%). Fissile horizontal bedding. Sharp rough contact.

202-218 Sandy clay calcareous light brown with dark brown spots and lines (bioturbation traces) increasing upward. Sharp rough contact

218-220 Foram sand. Fissile horizontal bedding. Sharp flat contact.

220-240 Clay dark brown with the bioturbation traces. Sharp rough contact.

240-247 Sandy silt calcareous (foram-rich) with a number of clay clasts (to 2-3 cm in size)

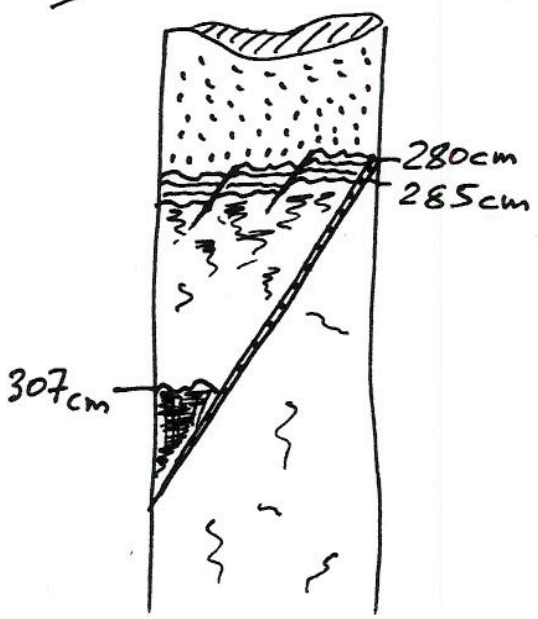
247-261 Sandy clay calcareous with the foram-rich lenses, a density of which is increasing downward. Gradual contact.

261-280 Foram sand including the dark coloured sand-size clasts (30-50%). Sharp rough contact.

280-307 Sandy clay calcareous light brown with dark brown spots (bioturbation traces) increasing upward. Clay of the upper 5 cm might be distinguished with their more light colour and fissile bedding. All the interval is cut with the foram sand dike (1-5mm in thickness). Sharp rough contact.

307-325 Clay dark brown with the bioturbation traces. Contact is cut with the sand dike.

325-345 Sandy clay calcareous light brown homogeneous with the rare bioturbation traces



GC-1 91-AV-19/2

GC-1 91-AV-19/2

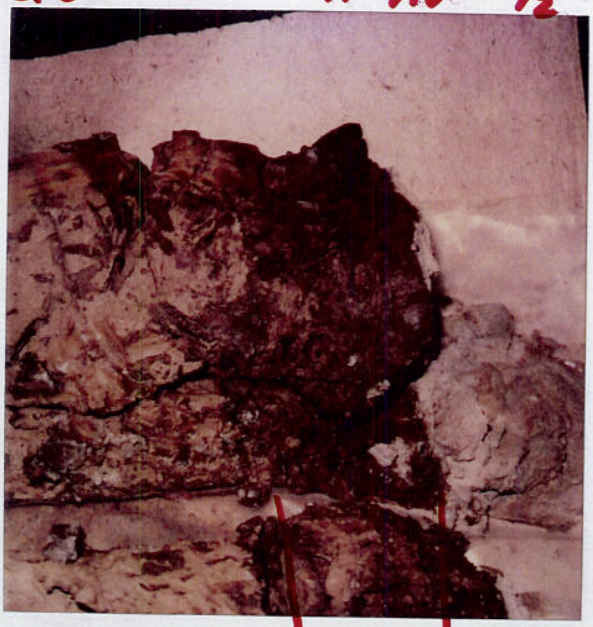
GC-1 91-AV-19/2

GC-1 91-AV-19/2

GC-1 91-AV-19½

111 121 138

GC-1 91-AV-19½



150 141

GC-1 91-AV-19½

174 168

GC-1 91-AV-19½

185 180 174

GC-1 91-AV-19/2

10 195

GC-1 91-AV-19/2

230 250 270

GC-1 91-AV-19/2

11 220

GC-1 91-AV-19/2

GC-1 240-260 cm

GC-1 91-AV-19/2

260 - 278 cm
GC-1

GC-1 91-AV-19/2

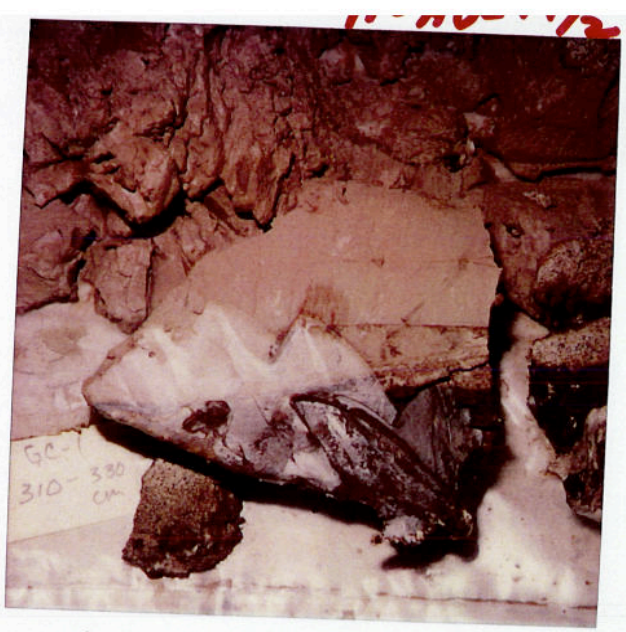
~~261~~

GC-1 91-AV-19/2

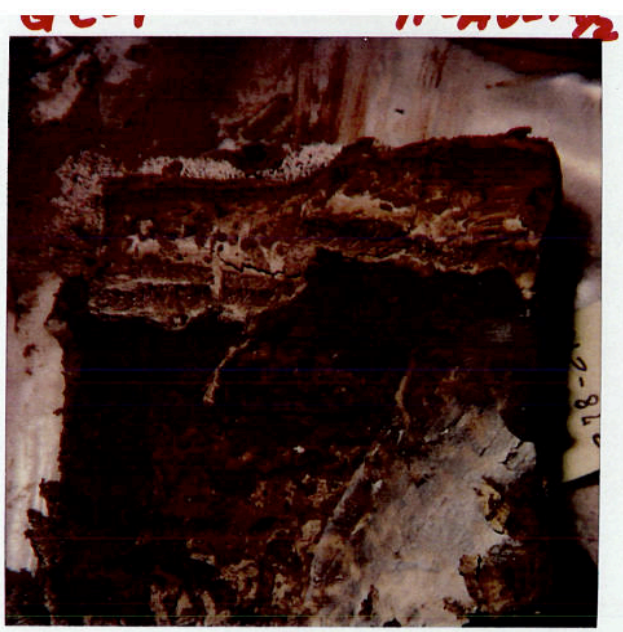
284.5 280

GC-1 91-AV-19/2

308.5 292.5
~~322~~



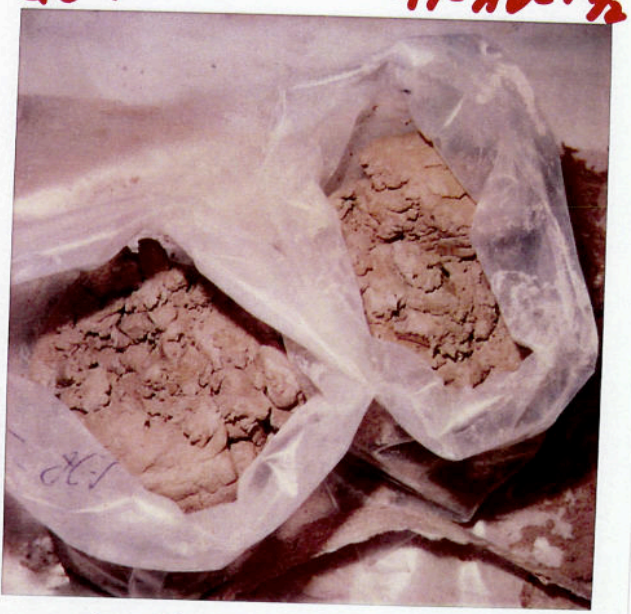
310 - 330 cm
GC-1



GC-1 91-AV-19/2

322 308.5

GC-1 91-AV-19/2

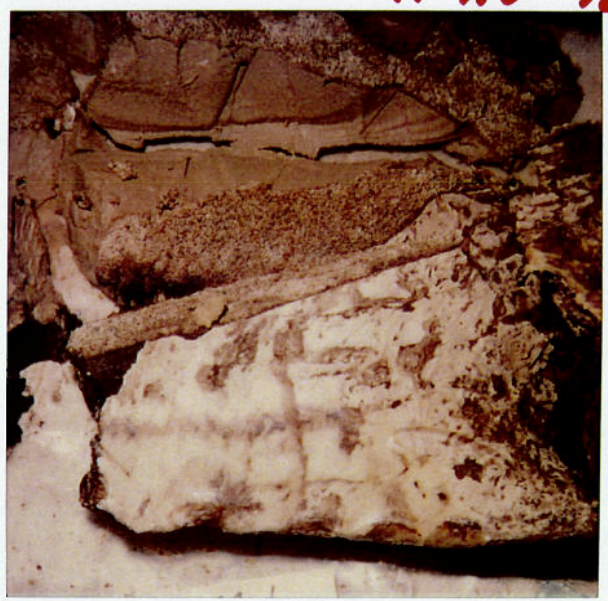


1-5 5-10cm
Corecatcher

91-AV-19/2

278 - 290 cm

91-AV-19/2



290 cm - 310 cm