USGS STATION LOG

SHIP / LEG: S1-79

LATITUDE: 16° 50.99'-51.06'N

LONGITUDE: -117°29.81'-29.66'W

STATION NO.: 01

LINE NO.:

DAY/MONTH/YEAR

DATE: 28/3/79

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Bottom Camera #1	180m			
Bottom T.V. #1	180m			

REMARKS: T.V. from 081/1509 to 081/1556

MGG 06 1 1 5 0 1 4

NEBCO

USGS STATION LOG

SHIP / LEG S1-79

LATITUDE 16° 52.2'N

LONGITUDE -117° 29.89'W

STATION NO. 02

LINE NO.

DAY/MONTH/YEAR

DATE 22/3/79

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Dredge #1	1000m	No recovery		
Dredge #2	1000m	No recovery		
Dredge #3	750m	1/3 full	volcanic	

REMARKS: 081/2146--Dredge on bottom, Attempt #2
2213--In 1000m of H_2o, 3000m of wire out.
2320--Off bottom, Lost Dredge!

Attempt #3--082
0052--On bottom
0106--Pulling in Recovered 5 bags of Basalt
0200--Off bottom

NEBCO

USGS STATION LOG

SHIP / LEG S1-79

LATITUDE 16° 50.39'N

LONGITUDE -117° 29.87'W

STATION NO. 03

LINE NO.

DAY/MONTH/YEAR

DATE 22/3/79

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Dredge #4	130m	10cm diam.	1 piece of coral & algae	
Dredge #5	145m		coral &pelycypod	

REMARKS: Dredge #4--082/0458 Dredge on bottom
0546 Dredge caught
0806 Dredge off bottom,w/recovery

Dredge #5--082/0851 Dredge on bottom
0903 Off bottom
0906 On deck,w/recovery

NEBCO

USGS STATION LOG

SHIP / LEG S1-79

LATITUDE 16° 47.88'N

LONGITUDE -117° 55.51'W

STATION NO. 04

LINE NO. 26

DAY/MONTH/YEAR

DATE 23/3/79

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Van Veen #1 (V1)	3770	No recovery		
Gravity core #1(G1)	3910	355cm		
Bottom Camera #2	3820	54 photos taken		
V2	3850	No recovery		

REMARKS: G1—started @082/1800,winch lost power @ 1825
12 hrs of repairs,drifting...
Winch working again @ 083/0609,grav. core going down
G1 hit @ 0625 DR Fix: 16° 43.07'N
-118° 02.31'W
3940m out,tension 7000 lbs on pullout.
Core on deck @ 0725,mud in barrel up to wt. stand.

Camera on bottom--083/1108-1230
16° 39.42'N - 16° 40.01'N
-118° 04.05'W - -118° 03.51'W

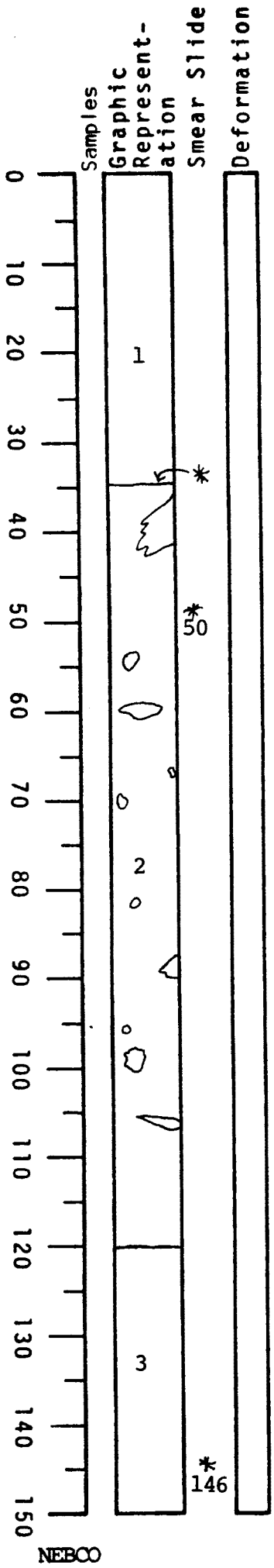
V2--going down @1615
On bottom @ 1723: 16° 35.69'N
-118° 04.50'W
Out @ 1833

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	1	-	7	9				G	1				0	1

STATION#				OBSERVER
		0	4	RYA



#1-VOID

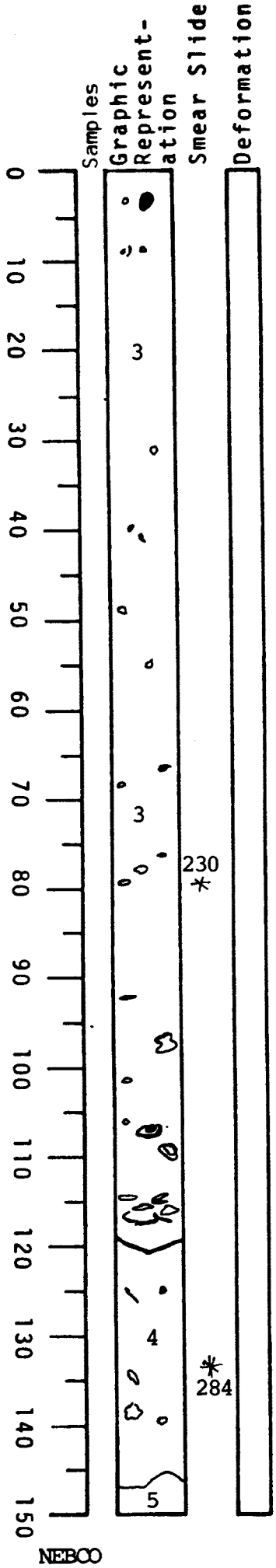
#2-Clay,radiolarian-bearing & micronodule-bearing, moderate brown 5 YR **3/4**,soft,homogeneous.Fluid upper contact,gradational lower contact;burrows dark yellowish orange.

#3-Clay,micronodule &zeolite-bearing,moderate yellowish brown 10 YR 5/4;homogeneous,mottled,moderately stiff.Intensely burrowed;yellowish brown burrows into light brown/mod. brown mottled texture.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-79	G1	02

STATION#	OBSERVER
4	RYA



#3-See Sec. 1
plus:unit increasingly stiff toward base and intensively burrowed near base.Basal contact sharp and angular-maybe slump.

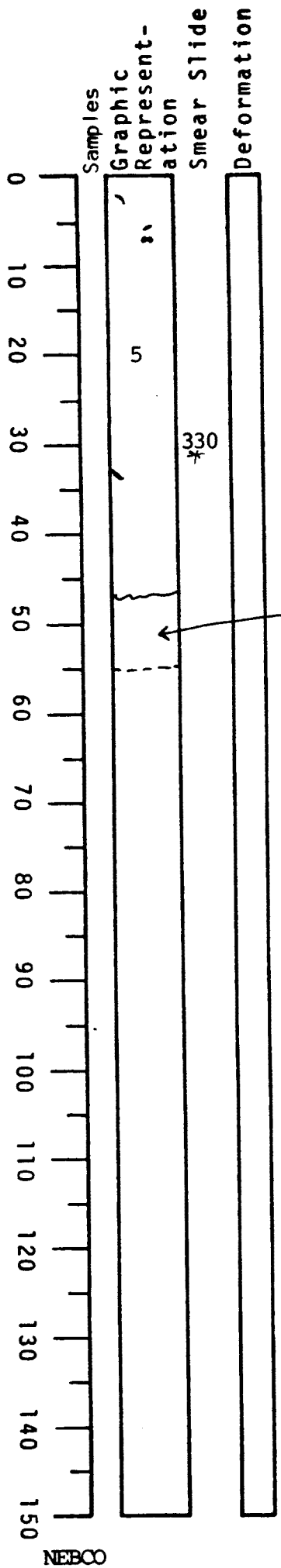
#4-Clay,micronodule & zeolite-bearing,moderate brown(yellowish),10 YR 5/4.Mottled,stiff, moderately burrowed.

#5-Clay,micronodule-bearing,moderate brown 5 YR 4/4 to mod. reddish brown 10 R 4/6, mottled,stiff,burrows small,thin rare. Upper contact wavy,becoming more stiff,dry and friable at base.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S 1 - 7 9	G 1	0 3

STATION#	OBSERVER
4	RYA



#5-See Sec.2

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G1	01	Surface	04			RYA

Sediment Name: _____

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
D	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
TR-R	Diatoms		
TR-R	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

Note: Some large brown angular glass shards, some with partial to no devitrification.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G1	1	51cm	4	X		RYA

Sediment Name: Clay, radiolarian-bearing and micronodule-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA		
	Sand			
	Silt			
D	Clay			
	COMPOSITION			
	Quartz			
	Feldspar			
	Mica			
	Heavy Mnls.			
	Total Detrital			
	Clay Mnls.			
TR	Volc. Glass			
	Palagonite			
	Chlorite			
	Glauconite			
	Pyrite			
R-C	Micro Nodules			
	Dolo. Rhombs			
	Zeolite			
	Auth. Carb.			
	Rock Frags.			
	Foraminifera			
TR?	Calc. Nannos			
* R	Diatoms			
* C-R	Radiolarians			
TR	Sponge Spic.			
R	Silicoflag.			
	Fish Remains			
	Plant Debris			

PERCENT	DETAILED MINERALOGY

REMARKS:

* Matrix of broken & degraded siliceous fossils.

10-50μ furruginous aggregates

Pleistocene ? diatoms & rads.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G1	1	146cm	4	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
R	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		
	Dolo. Rhombs		
C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
R	Diatoms		
R	Radiolarians		
TR	Sponge Spic.		
TR	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:
Fe aggregates
Degraded siliceous fossils

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G1	2	230cm	4	X		DDC

Sediment Name: Clay, micronodule bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
A	Clay Mnls.	
TR	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
C	Micro Nodules	
	Dolo. Rhombs	
R	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

Furruginous aggrgates, silceous fossils totally degraded.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G1	2	284cm	4	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
TR	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
R-C	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		
	Dolo. Rhombs		
C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:
Glass shards,vitrified

Furruginous aggregates

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G1	3	330cm	4	X		RYA

Sediment Name: Clay,micronodule-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
TR	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		
	Dolo. Rhombs		
R	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

Clay-furruginous aggrgates,very small & reddish brown,spherical,clear,masses 2-4μ in size. No fossils

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SAMPLE LOG

LOCATOR: S1-79

SAMPLE NO: G1

STATION NO: 4

I.G.:Inorganic Geochemistry
G.Z.:Grain Size
C.C.:Carbon/Carbonate

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	35-40 Surface	Dean	USGS	I.G.	3/26/79
1	"	Gardner	"	G.Z.	"
1	"	"	"	C.C.	"
1	85-90	Dean	"	I.G.	"
1	"	Gardner	"	G.Z.	"
1	"	"	"	C.C.	"
1	"	Hampton	"	Bulk density	"
1	135-140	Dean	"	I.G.	"
1	"	Gardner	"	C.C.	"
1	"	"	"	G.Z.	"
1	"	Hampton	"	Bulk density	"
1	143	"	"	"	"
2	185-190	Dean	"	I.G.	"
2	"	Gardner	"	G.Z.	"
2	"	"	"	C.C.	"
2	"	Hampton	"	Bulk density	"
2	235-240	Dean	"	I.G.	"
2	"	Gardner	"	C.C.	"
2	"	"	"	G.Z.	"
2	"	Hampton	"	Bulk density	"

NEBCO

SAMPLE LOG

LOCATOR: S1-79

STATION NO: 4

SAMPLE NO: G1

I.G.: Inorganic Geochemistry
G.Z.: Grain Size
C.C.: Carbon/Carbonate

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
2	285-290	Dean	USGS	I.G.	3/26/79
2	"	Gardner	"	G.Z.	"
2	"	"	"	C.C.	"
2	"	Hampton	"	Bulk density	"
3	335-340	Dean	"	I.G.	"
3	"	Gardner	"	G.Z.	"
3	"	"	"	C.C.	"
3	"	Hampton	"	Bulk density	"
	Core catch		"	Palaeontology	"

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
Sl-79	VV2		Fine	4			RYA

Sediment Name: _____

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

Rads
Diatoms
Palagonite
Brown glass frags.,partially devitrified on edges.

NOTE:only relatively coarse sediment(very small amount) was collected in jaws of VV.This is fine fraction.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	VV 2		Coarse	4			RYA

Sediment Name: _____

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

Coarse fraction mounted separately.
Very large shards of brown glass-fresh breaks, slightly devitrified margins.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	VV 2		Hole in base of VV	4			RYA

Sediment Name: Clay,micronodule bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
R *	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		
	Dolo. Rhombs		
TR-R	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

* Some very large brown glass shards-partially devitrified. Other clear shards not devitrified.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

USGS STATION LOG

SHIP / LEG S1-79

LATITUDE 16° 26.84'N

LONGITUDE -117° 46.57'W

STATION NO. 05

LINE NO. 27

DAY/MONTH/YEAR

DATE 24/3/79-26/3/79

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
V3	3850m.	No recovery		
70mm Camera Drop #3	3830m	"		
P1	3850m	"		
Camera Drop #4	3751m	150 good photos		
G2	3640m	Core catcher contained manganese nods. & frag.		
G3	3810m	240cm	red clay w/ manq. nods. on top	
D6	3850	about 24 manganese nods.		

REMARKS: On sta. @ 083/2300, drifted for 2 1/2 hrs—maneuvered back to good core pos.
V3-small amount of mud.

Camera on bottom—0454-0945. Flash was on auto & film not hooked to take-up properly; no bottom shots taken.

P1— In water @084/1800, on bottom @084/1924; 8barrel piston core.
No recovery: core barrels bent. Mud on outside up to 4th barrel.

G2—On bottom @0947

G3—In water@ 1159; on bottom @085/1224; out of water @1259

D6—In water @085/1443; on bottom @085/1521; coming up @1550; off bottom @1641; on deck @1715.

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G2		CC	05			RYA

Sediment Name: _____

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
*	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

* Note: Pumice pebble found among Mn nodules in this sample.

Pumice is small clear glass shards.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P1		cc of tripping core	5			RYA

Sediment Name: _____

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
R	Volc. Glass		*
A	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
C	Diatoms		
C	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

* Large brown glass shards-some coated with palagonite. Little devitrification apparent.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

USGS STATION LOG

SHIP / LEG S1-79

LATITUDE 16° 26.84'N

LONGITUDE -117° 46.57'W

STATION NO. 05

LINE NO. 27

DAY/MONTH/YEAR

DATE 24/3/79-26/3/79

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
V3	3850m	No recovery		
70mm Camera Drop #3	3830m	"		
P1	3850m	"		
Camera Drop #4	3751m	150 good photos		
G2	3640m	Core catcher contained manganese nods. & frag.		
G3	3810m	240cm	red clay w/ manq. nods. on top	
D6	3850	about 24 manganese nods.		

REMARKS: On sta. @ 083/2300, drifted for 2 1/2 hrs—maneuvered back to good core pos.
V3-small amount of mud.

Camera on bottom—0454-0945. Flash was on auto & film not hooked to take-up properly; no bottom shots taken.

P1— In water @084/1800, on bottom @084/1924; 8barrel piston core.
No recovery: core barrels bent. Mud on outside up to 4th barrel.

G2—On bottom @0947

G3—In water@ 1159; on bottom @085/1224; out of water @1259

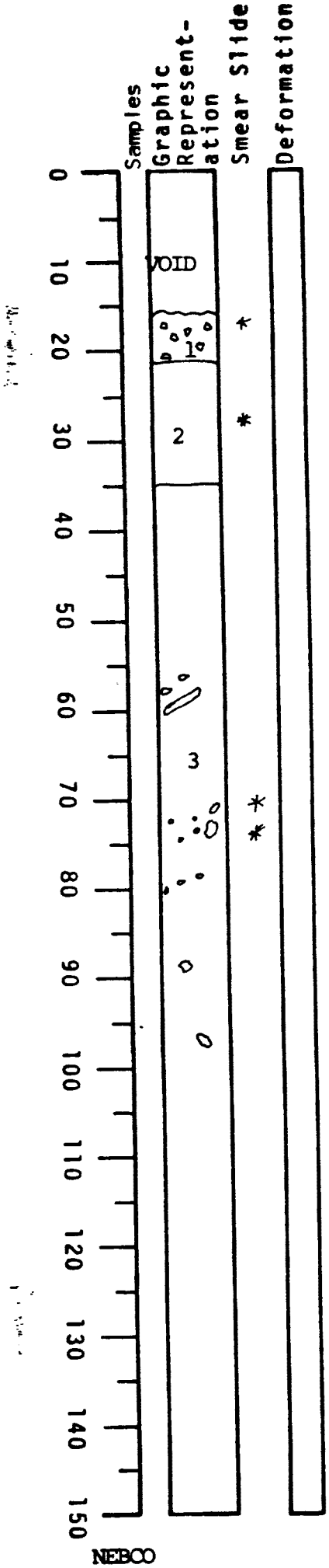
D6—In water @085/1443; on bottom @085/1521; coming up @1550; off bottom @1641; on deck @1715.

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-79	G3	01

STATION#	OBSERVER
5	RYA



#1-Clay,micronodule & zeolite-bearing,greyish brown 5 YR 3/2 to dusky brown 5 YR 2/2.Blocky texture, gradational contact w/lower unit.

#2-Clay,micronodule & zeolite-bearing,greyish brown 5YR 3/2,homogenous,tending to become blocky.Yellowish 2-3mm specs randomly distributed.Gradational contacts.

#3-Clay,micronodule & zeolite-bearing,palagonitic moderate brown 5 YR 3/4 to greyish red 10 R 4/2, light/dark mottled.Greyish orange 10 YR 7/4 burrow fillings.Gradational contact above.

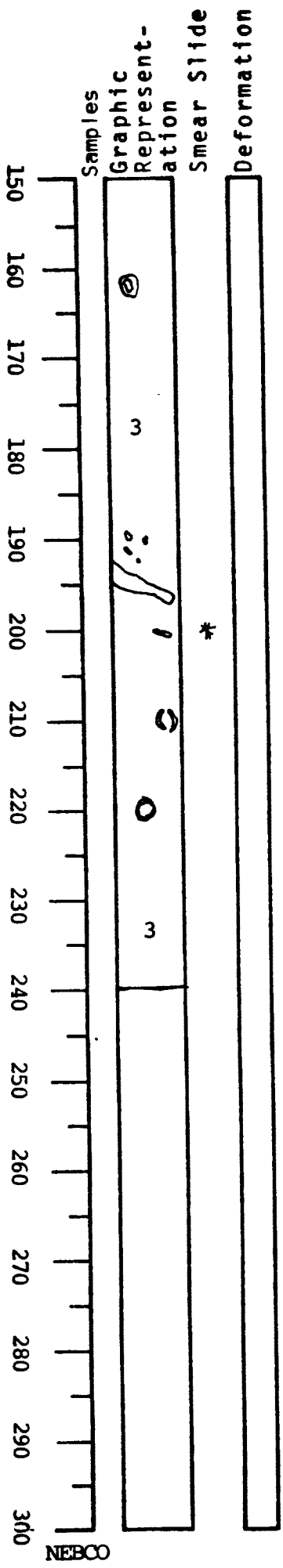
NOTE:Clay in this core resembles in blocky,dry texture the clay in unit 5 of G1 core.Also,no rads. in this(G3) core.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-79	G3	02

STATION#	OBSERVER
5	RYA

#3-See Sec. 01



SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G3	1	17cm	5	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
TR	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
A			
R	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		
	Dolo. Rhombs		
C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

Ferruginous aggrgates plus discrete 5μ brown(amber) translucent ferruginous? masses.
Black(opaque)10μ spheres,rhombs,& masses.No siliceous fossils observed

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G3	01	28cm	5	X		RYA

Sediment Name: Clay, micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
R	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		
	Dolo. Rhombs		
C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

Fe aggregates, 5μ amber bodies.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G3	o1	70cm	5	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing.Palagonitic

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
TR	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.	X	High xtalinity
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		
	Dolo. Rhombs		
C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:
No fossils

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G3	01	73cm	5	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing Palagonitic

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
TR	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.	X	High Xtalinity
R TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
R-C	Micro Nodules		
	Dolo. Rhombs		
R-C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

Burrow-yellow clay,same texture and crystallinity as major.

No fossils

Devitrification

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G3	02	200cm	5	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing,palagonitic

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
TR	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.	X	High xtallinity
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		
	Dolo. Rhombs		
C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:
Devitrification of glass

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SAMPLE LOG

LOCATOR: S1-79 SAMPLE NO: G2

STATION NO: 05

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
	Core catcher	Gardner,J	USGS	Archive	3/24/79

NEBCO

SAMPLE LOG

LOCATOR: S1-79 SAMPLE NO: G3

STATION NO: 5

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	Surface 15-20	Dean	USGS	I.G.	3/24/79
1	"	Gardner	"	G.Z.	"
1	"	"	"	C.C.	"
1	65-70	Dean	"	I.G.	"
1	"	Gardner	"	G.Z.	"
1	"	"	"	C.C.	"
1	"	Hampton	"	Bulk density	"
1	115-119	Dean	"	I.G.	"
1	"	Gardner	"	G.Z.	"
1	"	"	"	C.C.	"
1	"	Hampton	"	Bulk density	"
2	165-170	Dean	"	I.G.	"
2	"	Gardner	"	G.Z.	"
2	"	"	"	C.C.	"
2	"	Hampton	"	Bulk density	"
2	215-220	Dean	"	I.G.	"
2	"	Gardner	"	G.Z.	"
2	"	"	"	C.C.	"
2	"	Hampton	"	Bulk density	"
2	Core Catcher	Barron-Kling	"	Archive	"

NEBCO

USGS STATION LOG

SHIP / LEG: S1-79

LATITUDE: 16° 42.74'-42.89'N

LONGITUDE: -116° 41.48'-40.79'W

STATION NO.: 6

LINE NO.: 28

DAY/MONTH/YEAR

DATE: 27/3/79

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
G4	4050m	Core catcher		

REMARKS:

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G4		CC	6			RYA

Sediment Name: _____

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
	Volc. Glass		*
A	Palagonite		
A	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

* Brown basaltic glass shards, with various stages of palagonitic development &devitrification.
Sand size material on surface in addition to basaltic glass.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SAMPLE LOG

LOCATOR: S1-79

SAMPLE NO: G4

STATION NO: 6

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	Core catcher	Gardner	USGS	Archive	3/27/79

NEBCO

USGS STATION LOG

SHIP / LEG: S1-79

LATITUDE: 17° 16.56'N

LONGITUDE: -117° 06.54'W

STATION NO.: 07

LINE NO.: 34

DAY/MONTH/YEAR

DATE: 27/3/79

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Camera Drop #5	3904m	200 shots		
G5	3913m	418cm		

REMARKS: Camera Drop #5--on bottom @0705

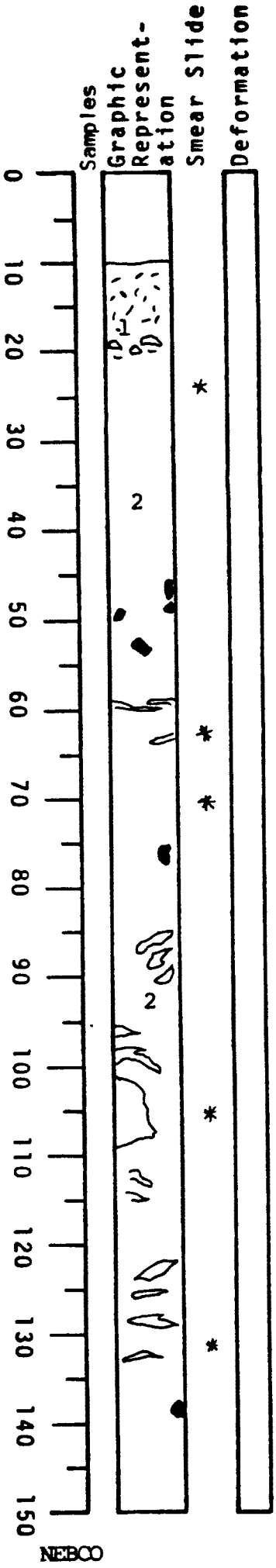
G5--stuck in mud at bottom @1310;winch broke down,fixed @2100; mud line at 210cm,418cm recovered:glassy basalt at top with mud below.

End Sta. 07 @087/2225

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-79	G5	1

STATION#	OBSERVER
7	NEB



0-12cm void

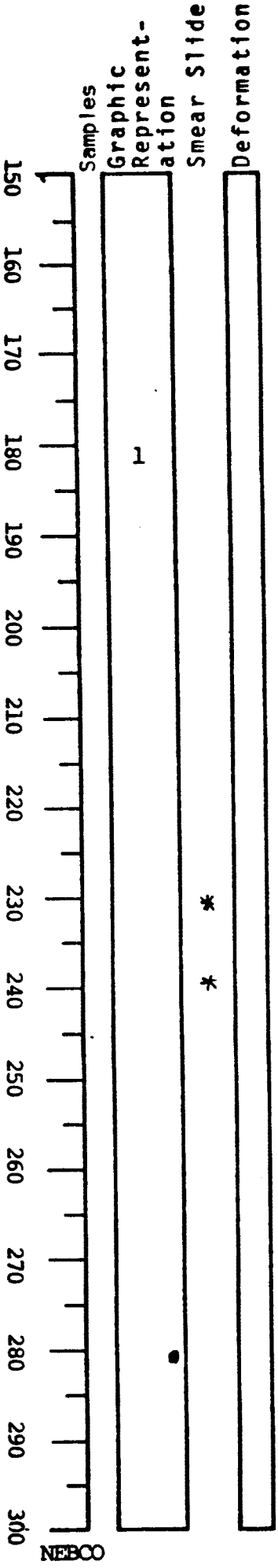
1. 12-18cm highly fractured basalt chips, black glassy.

2. Pelagic clay, moderate brown (5 YR 3/4) soft homogeneous, very disturbed from 18-60cm; from 60-150cm less disturbed with streaks of light moderate brown that appears to have been burrowed. Several small basalt chips along the length of section. 5cm wedge of pelagic clay, moderate brown (5 YR 4/4) at 102-108cm.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-79	G5	2

STATION#	OBSERVER
7	NEB

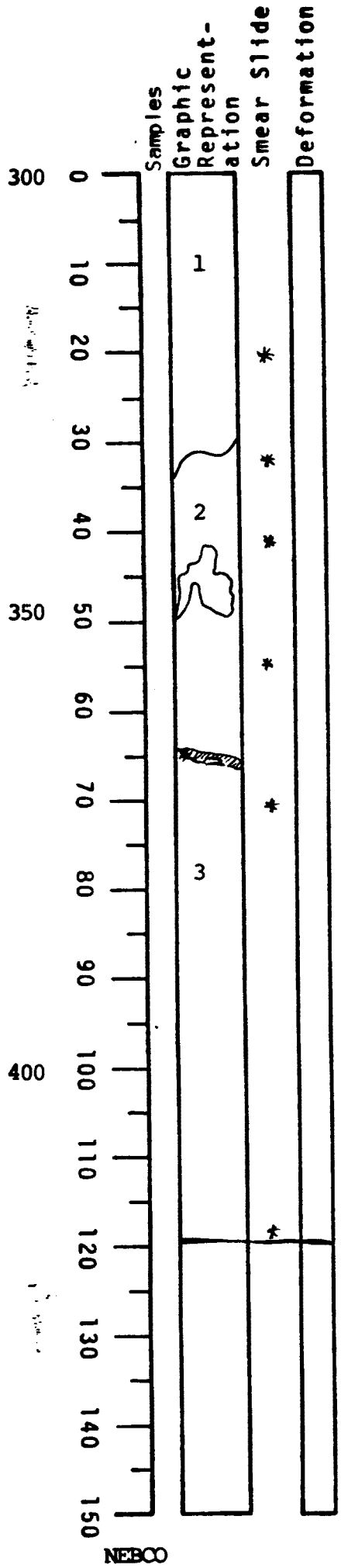


1. Pelagic clay, moderate brown (5 YR 3/4), soupy, very disturbed from cutting of core. Light streaks throughout length of section: pelagic clay, moderate brown (5 YR 4/4) that may have been burrowed. Appears the same as sec. 1.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S 1 - 7 9	G 5	3

STATION#	OBSERVER
7	NEB



1. 300-331cm,Pelagic clay,moderate brown(5 YR 3/4), soft,disturbed from cutting core.Light moderate brown steaks(5 YR 4/4) that appear to be burrowed pelagic clay.

2. 331-365cm ,Pelagic clay,moderate brown(5 YR 3/4), moderately firm,only slightly disturbed from cutting.Sharp upper contact,gradational lower contact. Pelagic clay,light moderate brown(5 YR 4/4) burrow marks.Pelagic clay,moderate reddish brown(10 R 4/6) irregular bounded inclusion from 341-348cm.

3. 365-418cm.Pelagic clay,moderate brown(5 YR 3/4), soft to soupy,disturbed from cutting core.Pelagic clay,light moderate brown streaks from burrowing.

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	1	25cm	7	X		HNO

Sediment Name: _____

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
TR	Feldspar	
TR	Mica	
TR	Heavy Mnls.	pyx/amph.
	Total Detrital	
A	Clay Mnls.	
TR	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
R-C	Micro Nodules	Fe/Mn
	Dolo. Rhombs	
	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
C	Diatoms	frags.
C	Radiolarians	
C	Sponge Spic.	
	Silicoflag.	
R-C	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	1	63cm	7	X		HNO

Sediment Name: Ash bearing pelagic clay

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
TR	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
A	Clay Mnls.	
R-C	Volc. Glass	lt. green
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
R-C	Micro Nodules	Fe/Mn
	Dolo. Rhombs	
TR	Zeolite	Phillipsite
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
R-C	Diatoms	frags.
TR-R	Radiolarians	
R	Sponge Spic.	
TR	Silicoflag.	
TR	Fish Remains	Collophane
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	1	70cm	7	X		JVG

Sediment Name: Pelagic clay

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
T	Total Detrital		Pyx/Amph.
A-D	Clay Mnls.		
R	Volc. Glass		clear & lt. brown
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		Fe/Mn
	Dolo. Rhombs		
R	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
R	Diatoms		frags.
T	Radiolarians		frags.
	Sponge Spic.		
T	Silicoflag.		
T	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

Ethmodiscus rpx fragment

Dictyocha fibula

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	1	105cm	7		X	JVG

Sediment Name: _____

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
R	Heavy Mnls.		Pyx/amph.
R	Total Detrital		
A	Clay Mnls.		
C	Volc. Glass		clear, lt.brn lt.grn
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
T	Micro Nodules		Fe/Mn
	Dolo. Rhombs		
R	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
R	Diatoms		
R	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
T	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

Ethmodiscus rpx

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	1	131cm	7	X		JVG

Sediment Name: Pelagic clay

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
R	Volc. Glass		Clear, lt. brn., lt. grn
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
R	Micro Nodules		Fe/Mn
	Dolo. Rhombs		
R	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
TR	Diatoms		
TR	Radiolarians		
TR	Sponge Spic.		
	Silicoflag.		
T	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	2	230	7	X		HNO

Sediment Name: Pelagic clay

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
TR	Feldspar	twinned
	Mica	
TR	Heavy Mnls.	pyx/amph
	Total Detrital	
	Clay Mnls.	
R	Volc. Glass	lt. ~~green~~
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
R-C	Micro Nodules	Fe/Mn
	Dolo. Rhombs	
TR	Zeolite	phillipsite
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
R-C	Diatoms	frags.
C	Radiolarians	good pres.
R-TR	Sponge Spic.	
TR	Silicoflag.	
	Fish Remains	
	Plant Debris	

PERCENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

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SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	2	240cm	7	X		HNO

Sediment Name: ~~Radiolarian clay~~

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
A-D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
A	Volc. Glass		
R-C	Palagonite		~~Lt. green~~
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
R-C	Dolo. Rhombs		Fe/Mn
	Zeolite		
TR	Auth. Carb.		phillipsite
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
R-C	Radiolarians		frags
C	Sponge Spic.		well pres.
R	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	3	320cm	7	X		HNO

Sediment Name: Pelagic clay

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
TR	Heavy Mnls.		pyx/amph.
	Total Detrital		
D	Clay Mnls.		
R	Volc. Glass		lt. green
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
R-C	Micro Nodules		Fe/Mn
	Dolo. Rhombs		
TR	Zeolite		phillipsite
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
R	Diatoms		
C	Radiolarians		
R	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	3	333cm	7	X		HNO

Sediment Name: Pelagic clay

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
TR	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
D	Clay Mnls.	
TR	Volc. Glass	lt. green
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
	Micro Nodules	
	Dolo. Rhombs	
R	Zeolite	phillipsite
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
R	Diatoms	
R	Radiolarians	
TR	Sponge Spic.	
	Silicoflag.	
TR	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	3	342cm	7		X	Ohlin

Sediment Name: Feldspar rich red clay

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
C	Feldspar	
	Mica	
R-C	Heavy Mnls.	hematite apatite
	Total Detrital	
D	Clay Mnls.	yellow to red
R-C	Volc. Glass	grey green
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
	Micro Nodules	
	Dolo. Rhombs	
	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PERCENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	3	355cm	7	X		HNO

Sediment Name: Pelagic clay

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
TR	Feldspar		albite twins
	Mica		
TR	Heavy Mnls.		pyx/amph
	Total Detrital		
D	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
R-C	Micro Nodules		Fe/Mn
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
R	Radiolarians		frags
R	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	3	370cm	7	X		HNO

Sediment Name: Ash bearing pelagic clay

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
D	Clay Mnls.		
R-C	Volc. Glass		lt. green
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
R	Zeolite		phillipsite
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
R	Radiolarians		frags
R	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G5	3	417cm	7	X		HNO

Sediment Name: Zeolite bearing pelagic clay

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
D	Clay Mnls.	
	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
R-C	Micro Nodules	Fe/Mn
	Dolo. Rhombs	
R-C	Zeolite	phillipsite
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
TR	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SAMPLE LOG

LOCATOR: S1-79

SAMPLE NO: G5

STATION NO: 7

G.Z.:Grain size
C.C.:Carbon/Carbonate
I.G.:Inorganic Geochemistry

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	Surface 12-17cm	Dean	USGS	I.G.	3/28/79
1	"	Gardner	"	G.Z.	"
1	"	"	"	C.C.	"
1	50-55cm	Dean	"	I.G.	"
1	"	Gardner	"	G.Z.	"
1	"	"	"	C.C.	"
1	"	Hampton	"	Bulk density	"
1	100-105cm	Dean	"	I.G.	"
1	"	Gardner	"	G.Z.	"
1	"	"	"	C.C.	"
1	"	Hampton	"	Bulk density	"
1	147-150cm	Dean	"	I.G.	"
1	"	Gardner	"	G.Z.	"
1	"	"	"	C.C.	"
1	"	Hampton	"	Bulk density	"
2	200-205cm	Dean	"	I.G.	"
2	"	Gardner	"	G.Z.	"
2	"	"	"	C.C.	"
2	"	Hampton	"	Bulk density	"
2	250-255cm	Dean	"	I.G.	"

SAMPLE LOG

LOCATOR: S1-79 SAMPLE NO: G5

STATION NO: 7

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
2	250-255cm	Gardner	USGS	G.Z.	3/28/79
2	"	"	"	C.C.	"
2	"	Hampton	"	Bulk density	"
2	297-300cm	Dean	"	I.G.	"
2	"	Gardner	"	G.Z.	"
2	"	"	"	C.C.	"
2	"	Hampton	"	Bulk density	"
3	350-355cm	Dean	"	I.G.	"
3	"	Gardner	"	G.Z.	"
3	"	"	"	C.C.	"
3	"	Hampton	"	Bulk density	"
3	400-405cm	Dean	"	I.G.	"
3	"	Gardner	"	G.Z.	"
3	"	"	"	C.C.	"
3	"	Hampton	"	Bulk density	"
	Core catcher	Gardner	"	Palaeontology	"

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USGS STATION LOG

SHIP / LEG: S1-79

LATITUDE: 17° 22.70'-22.20'N

LONGITUDE: -117° 41.55'-43.40'W

STATION NO.: 8

LINE NO.: 35

DAY/MONTH/YEAR

DATE: 28/3/79

TYPE OF STORAGE (check one)

DRY	COLD	FROZEN
	X	

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Camera Drop #6 (C6)	3918-3920m	150 photos		
G6	3917m	300cm		
Piston core #2 (P2)	3919m	790cm		

REMARKS: C6--on bottom @0414 17° 22.45'N
-117° 41.76'W

off bottom @0742 17° 22.64'N
-117° 41.18'W

G6--on bottom @0946 17° 22.71'N
-117° 41.55'W

P2-- on bottom @1408 17° 22.29'N
-117° 42.32'W

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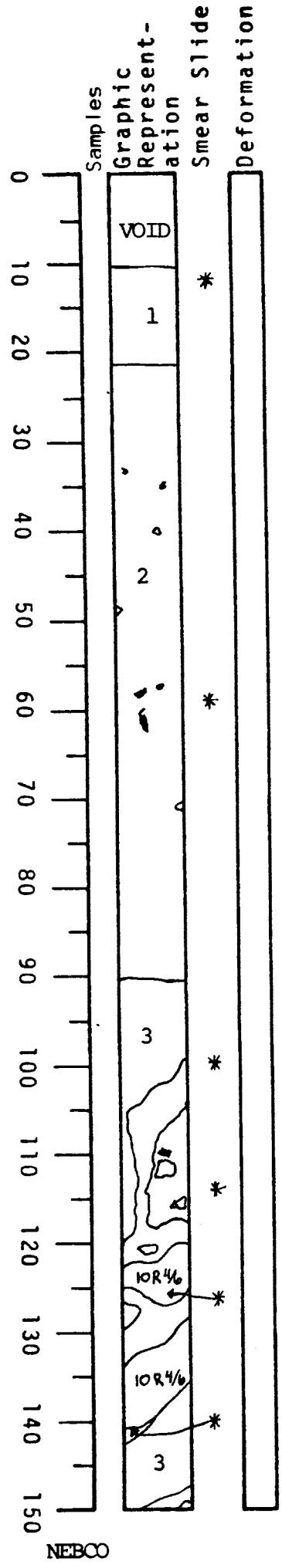
VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	1	-	7	9				G	6				0	1

STATION#				OBSERVER
			8	RYA



1. Clay,zeolite & micronodule-bearing,moderate brown(5 YR 4/4),soft,fluid,homogeneous.Lower contact gradational.

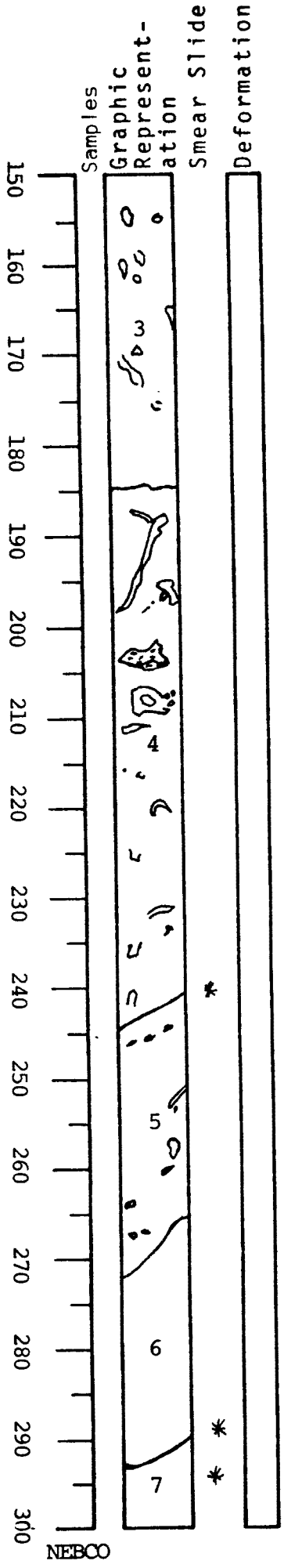
2. Clay,micronodule &zeolite-bearing,moderate brown(5 YR 3/4),mostly homogeneous,soft but not fluid or stiff.Some mottling and very weak burrow development.Both contacts gradational.

3. Clay,glass bearing & palagonitic,greyish red(5 R 4/2) to dark reddish brown,moderately stiff but wet.Contains 5cm-10cm angular blocks of other units,enclosed in a dislayered 5 R 3/4 fractured matrix of chips. Enclosed angular units consist of blocks of clay,moderately reddish brown(10 YR 4/6),& dark yellowish brown(10 YR 4/2)

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.						SEC.	
S	1	-	7	9				G	6					0	2

STATION#				OBSERVER
			8	RYA



3. See Sec. 01.But lower part is mottled & contains no angular blocks.

4. Clay,micronodule & zeolite-bearing,dark yellowish brown(10 YR 4/2),grading upward to moderate yellowish brown(10 YR 5/4),soft,mottled with burrows,greyish orange(10YR 7/4),increasing in size upward.Basal 8cm somewhat laminated.Upper contact gradational,lower contact sharp.

5. Clay,micronodule & zeolite-bearing,dark yellowish brown(10 YR 4/2),mottled.Burrow fillings greyish orange(10 YR 7/4).Sublaminated.Sharp upper & lower contacts.

6. Clay,zeolite-bearing,greyish brown(5 YR 3/2), grading upward to moderate reddish brown(10R 4/6), lower part homogeneous,stiff;upper part slightly mottled.Sharp upper &lower contacts.

7. Clay,zeolite-bearing,dark reddish brown(10 R 3/4) to moderately reddish brown(10 R 4/6),stiff,homogeneous.Sharp upper contact.

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G6	1	12cm	8	X		RYA

Sediment Name: Clay, zeolite & micronodule-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
R-C	Micro Nodules		
	Dolo. Rhombs		
C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
TR	Diatoms		frag.
TR	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

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SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G6	1	58cm	8	X		RYA

Sediment Name: Clay,micronodule &zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA		
	Sand			
	Silt			
D	Clay			
	COMPOSITION			
	Quartz			
	Feldspar			
	Mica			
	Heavy Mnls.			
	Total Detrital			
A	Clay Mnls.			
	Volc. Glass			
	Palagonite			
	Chlorite			
	Glauconite			
	Pyrite			
C	Micro Nodules			
	Dolo. Rhombs			
C	Zeolite			
	Auth. Carb.			
	Rock Frags.			
	Foraminifera			
	Calc. Nannos			
	Diatoms			
	Radiolarians			
TR?	Sponge Spic.			
	Silicoflag.			
	Fish Remains			
	Plant Debris			

PER-CENT	DETAILED MINERALOGY

REMARKS:
Fe aggregates

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G6	1	100cm	8	X		RYA

Sediment Name: ~~Clay,glass bearing & palagonitic~~

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
	Clay Mnls.	
R-C	Volc. Glass	
	Palagonite	Palagonitic
	Chlorite	
	Glauconite	
	Pyrite	
	Micro Nodules	
	Dolo. Rhombs	
TR	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

Fe aggregate composition, spheres & masses.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G6	1	115cm	8	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
A	Clay Mnls.	
	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
C	Micro Nodules	
	Dolo. Rhombs	
C	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	none
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G6	1	128cm	8	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
A	Clay Mnls.	
	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
R-C	Micro Nodules	
	Dolo. Rhombs	
R-C	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	none
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

Fe aggregates as small spheres

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G6	1	143cm	8	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
R-C	Micro Nodules		
	Dolo. Rhombs		
R-C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.	?	few?
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G6	2	199cm	8	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
A	Clay Mnls.	
	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
C	Micro Nodules	
	Dolo. Rhombs	
C	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	NONE
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

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SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G6	2	240cm	8	X		RYA

Sediment Name: Clay,micronodule &zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
A	Clay Mnls.	
	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
C	Micro Nodules	
	Dolo. Rhombs	
C	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	none
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G6	2	253cm	8	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		
	Dolo. Rhombs		
C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		NONE
	Calc. Nannos		
	Diatoms		NONE
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G6	2	289cm	8	X		RYA

Sediment Name: Clay,zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
R	Micro Nodules		
	Dolo. Rhombs		
R-C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		none
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	G6	2	299cm	8	X		RYA

Sediment Name: Clay,zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
A	Clay Mnls.	
TR	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
R-TR	Micro Nodules	
	Dolo. Rhombs	
C	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	none
	Radiolarians	
	Sponge Spic.	
	Siliceflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY
	Partially devitrified

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

SAMPLE LOG

LOCATOR: S1-79 SAMPLE NO: G6

STATION NO: 8

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	surface 10-15cm	Dean	USGS	I.G.	
1	"	Gardner	"	C.C.	
1	"	"	"	G.Z.	
1	50-55cm	Dean	"	I.G.	
1	"	Gardner	"	G.Z.	
1	"	"	"	C.C.	
1	"	Hampton	"	Bulk density	
1	100-105cm	Dean	"	I.G.	
1	"	Gardner	"	G.Z.	
1	"	"	"	C.C.	
2	150-155cm	Dean	"	I.G.	
2	"	Gardner	"	G.Z.	
2	"	"	"	C.C.	
2	"	Hampton	"	Bulk density	
2	200-205cm	Dean	"	I.G.	
2	"	Gardner	"	G.Z.	
2	"	"	"	C.C.	
2	250-255cm	Dean	"	I.G.	
2	"	Gardner	"	G.Z.	
2	"	"	"	C.C.	

NEBCO

SAMPLE LOG

LOCATOR: S1-79 SAMPLE NO: G6

STATION NO: 8

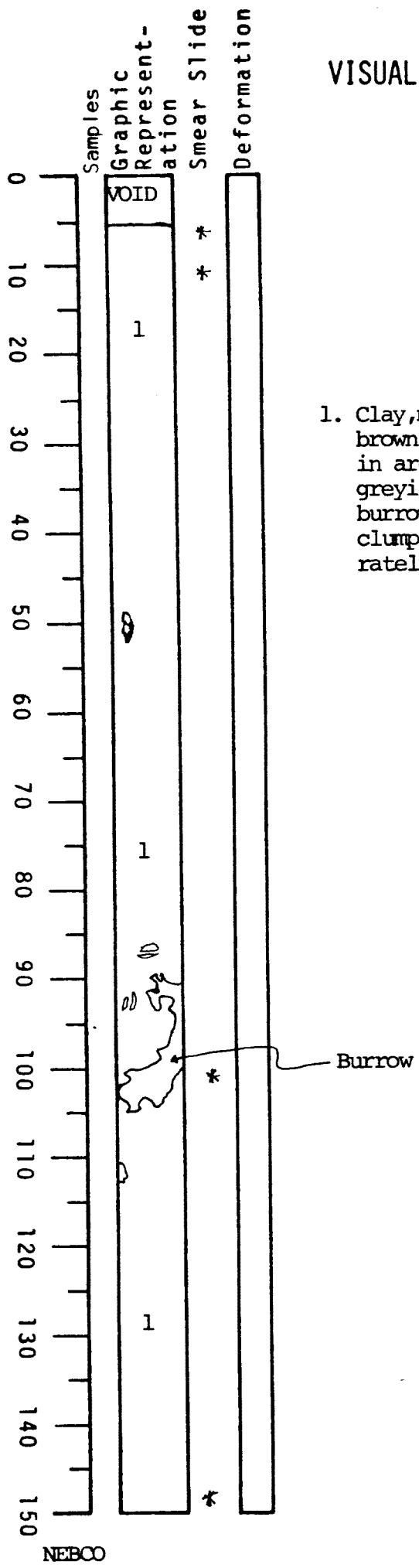
SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
2	250-255cm	Hampton	USGS	Bulk density	
	core catcher	Barron,Kling	USGS	Palaeontology	

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	1	-	7	9				P	2				0	1

STATION#				OBSERVER
			8	RyA

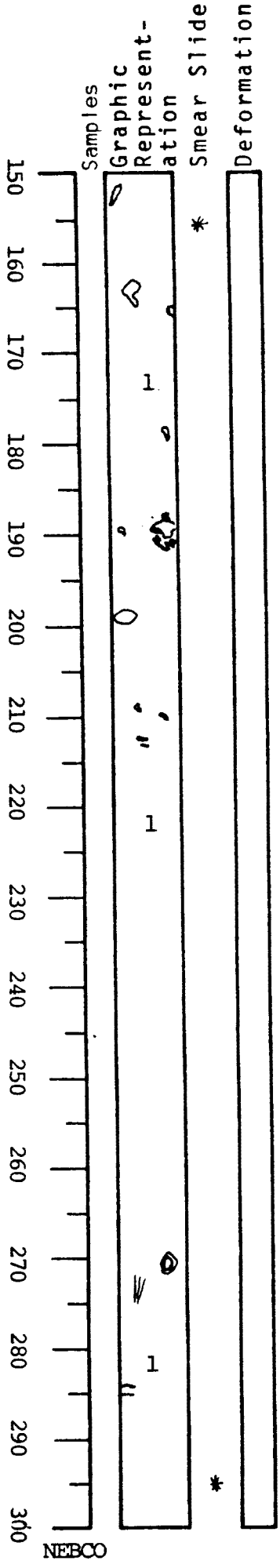


1. Clay,micronodule & zeolite-bearing,greyish brown(5 YR 3/2),becoming moderate brown(5 YR 3/4) in area of burrows between 80-110cm.Burrow fillings greyish orange(10 YR 7/4).Homogeneous except in burrow area,clay organized into 3-10mm faceted clumps,moderately stiff with water collecting separately in pore space between clumps.Not soupy.

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	1	-	7	9				P	2				0	2

STATION#				OBSERVER
			8	RYA



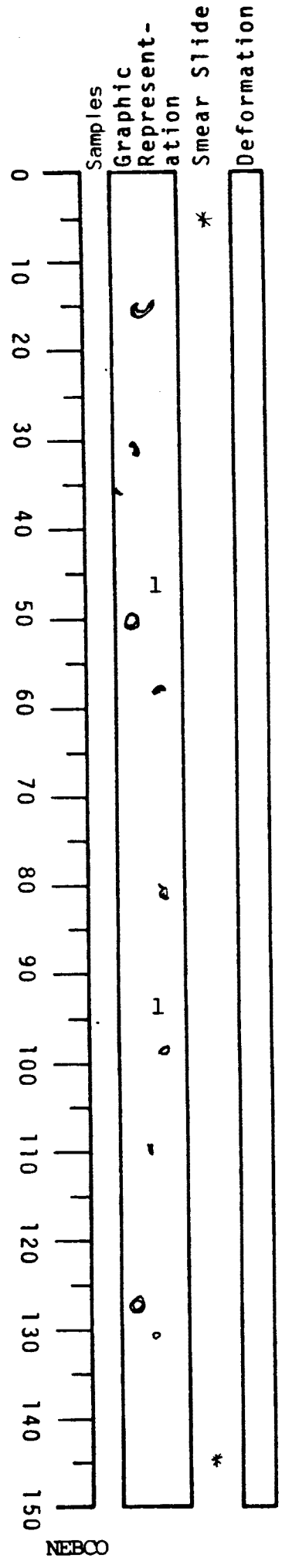
1. See Sec. 01,unit 1.

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	1	-	7	9				P	2				0	3

STATION#				OBSERVER
			8	RYA

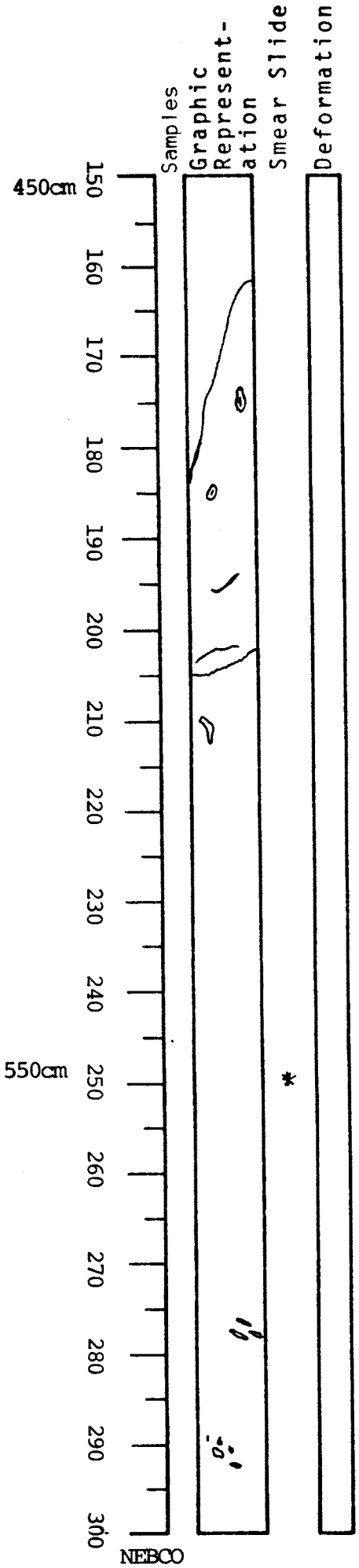
1. See Sec. 01,unit 1



VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-79	P2	04

STATION#	OBSERVER
8	NEB



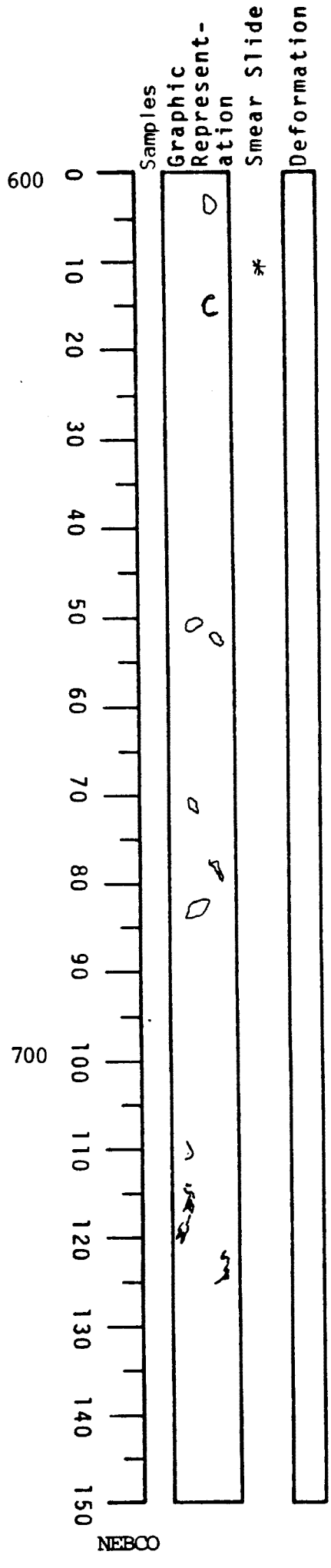
450-600cm--Zeolite-bearing clay, greyish brown (5 YR 3/2), firm, homogeneous, turning to light moderate brown (5 YR 4/4) near burrow marks. Upper 50-60cm disturbed when core split, plastic fingers were embedded about 462cm and were drawn down core by cheese wire to about 505cm.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-79	P2	05

STATION#	OBSERVER
8	NEB

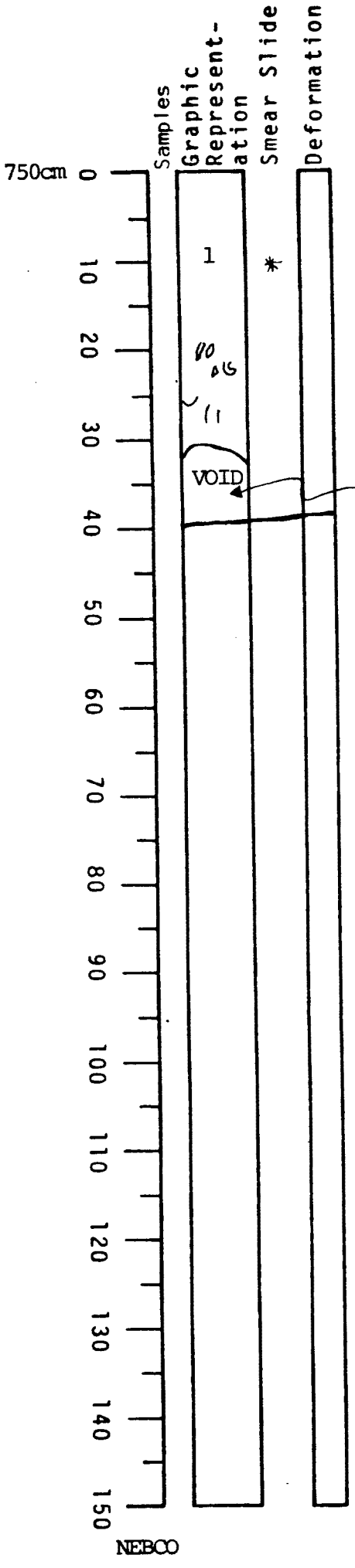
600-750cm--Zeolite-bearing clay, greyish brown(5 YR 3/2),firm, homogeneous entire length of section. Light moderate brown burrows in oval & rounded configurations.



VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S 1 - 7 9	P 2	0 6

STATION#	OBSERVER
8	NEB



1. Pelagic clay, greyish brown (5 YR 3/2), firm, homogeneous with a few light brown burrow marks.

   Same as Sec. 05

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P2	01	6cm	8	X		RYA

Sediment Name: Clay, micro nodule-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA		PERCENT	DETAILED MINERALOGY
	Sand				
	Silt				
D	Clay				
	COMPOSITION				
TR	Quartz				
	Feldspar				
	Mica				
	Heavy Mnls.				
	Total Detrital				
A	Clay Mnls.				
R	Volc. Glass				
	Palagonite				
	Chlorite				
	Glauconite				
	Pyrite				
R-C	Micro Nodules				
	Dolo. Rhombs				
TR	Zeolite				
	Auth. Carb.				
	Rock Frags.				
	Foraminifera				
	Calc. Nannos				
	Diatoms				
TR	Radiolarians				
	Sponge Spic.				
	Silicoflag.				
	Fish Remains				
	Plant Debris				

REMARKS:
A few ghosts of Radiolaria present.
Some large completely devitrified glass fragments.
Ferrug. aggregates &masses, rare micronodules.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P2	01	11cm	8	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
A	Volc. Glass		
TR*	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
C	Dolo. Rhombs		
	Zeolite		
C	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

* Glass shards small,totally devitrified.No rads or diatoms.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P2	1	101cm	8	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA		
	Sand			
	Silt			
D	Clay			
	COMPOSITION			
TR	Quartz			
	Feldspar			
	Mica			
	Heavy Mnls.			
	Total Detrital			
A	Clay Mnls.			
TR*	Volc. Glass			
	Palagonite			
	Chlorite			
	Glauconite			
	Pyrite			
C	Micro Nodules			
	Dolo. Rhombs			
C	Zeolite			
	Auth. Carb.			
	Rock Frags.			
	Foraminifera			
	Calc. Nannos			
	Diatoms			none
	Radiolarians			
	Sponge Spic.			
	Silicoflag.			
	Fish Remains			
	Plant Debris			

PER-CENT	DETAILED MINERALOGY

REMARKS:
* Devitrified
Ferrug. aggregates

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P2	1	149cm	8	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
TR	Quartz	
TR	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
A	Clay Mnls.	
TR*	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
C	Micro Nodules	
	Dolo. Rhombs	
R-C	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	none
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:
* Fe aggregates devitrified

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P2	02	155cm	8	X		RYA

Sediment Name: Clay ,micronodule-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
TR	Quartz		
TR	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		
	Dolo. Rhombs		
R	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		none
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:
Ferrug. aggregates

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P2	02	295cm	8	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
TR	Quartz		
TR	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
R*	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		
	Dolo. Rhombs		
C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		none
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

* Devitrified or partially devitrified

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P2	3	305cm	8	X		RYA

Sediment Name: Clay,micronodule & zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
TR	Quartz		
TR	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		
	Dolo. Rhombs		
R-C	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		None
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

Ferrug. aggregates

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P2	3	445cm	8	X		RYA

Sediment Name: Clay, zeolite-bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA		
	Sand			
	Silt			
D	Clay			
	COMPOSITION			
TR	Quartz			
TR	Feldspar			
	Mica			
	Heavy Mnls.			
	Total Detrital			
A	Clay Mnls.			
	Volc. Glass			
	Palagonite			
	Chlorite			
	Glauconite			
	Pyrite			
R	Micro Nodules			
	Dolo. Rhombs			
C	Zeolite			
	Auth. Carb.			
	Rock Frags.			
	Foraminifera			
	Calc. Nannos			
	Diatoms			
	Radiolarians			none
	Sponge Spic.			
	Silicoflag.			
	Fish Remains			
	Plant Debris			

PER-CENT	DETAILED MINERALOGY

REMARKS:

Fe aggregates

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
Sl-79	P2	4	550cm	8	X		HNO

Sediment Name: Clay, zeolite bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
TR	Mica	
	Heavy Mnls.	
	Total Detrital	
D	Clay Mnls.	
TR	Volc. Glass	Lt. green-brown
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
	Micro Nodules	
	Dolo. Rhombs	
R-C	Zeolite	phillipsite
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:
Barren of fossils

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P2	5	610cm	8	X		HNO

Sediment Name: ~~Clay, zeolite bearing~~

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
D	Clay Mnls.	
TR-R	Volc. Glass	lt. green
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
T	Micro Nodules	Fe/Mn
	Dolo. Rhombs	
R-C	Zeolite	phillipsite
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P2	6	760cm	8	X		HNO

Sediment Name: Pelagic clay

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
D	Clay Mnls.		
T	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
TR-R	Micro Nodules		Fe/Mn
	Dolo. Rhombs		
R	Zeolite		phillipsite
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SAMPLE LOG

LOCATOR: S1-79

SAMPLE NO: P2

STATION NO: 8

G.Z.:Grain Size
C.C.:Carbon/Carbonate
I.G.:Inorganic Geochemistry

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	5-10cm	Dean	USGS	I.G.	3/29/79
1	"	Gardner	"	G.Z.	"
1	"	"	"	C.C.	"
1	50-55cm	Dean	"	I.G.	"
1	"	Gardner	"	G.Z.	"
1	"	"	"	C.C.	"
1	"	Hampton	"	Bulk density	"
2	100-105cm	Dean	"	I.G.	"
2	"	Gardner	"	G.Z.	"
2	"	"	"	C.C.	"
2	150-155cm	Dean	"	I.G.	"
2	"	Gardner	"	G.Z.	"
2	"	"	"	C.C.	"
2	"	Hampton	"	Bulk density	"
2	200-205cm	Dean	"	I.G.	"
2	"	Gardner	"	G.Z.	"
2	"	"	"	C.C.	"
2	250-255cm	Dean	"	I.G.	"
2	"	Gardner	"	G.Z.	"
2	"	"	"	C.C.	"

NEBCO

SAMPLE LOG

LOCATOR: S1-79 SAMPLE NO: P2

STATION NO: 8

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
2	250-255cm	Hampton	USGS	Bulk density	3/29/79
3	300-305cm	Dean	"	I.G.	"
3	"	Gardner	"	G.Z.	"
3	"	"	"	C.C.	"
3	350-355cm	Dean	"	I.G.	"
3	"	Gardner	"	G.Z.	"
3	"	"	"	C.C.	"
3	"	Hampton	"	Bulk density	"
3	"	Dean	"	I.G.	"
3	"	Gardner	"	G.Z.	"
3	"	"	"	C.C.	"
4	450-455cm	Dean	"	I.G.	"
4	"	Gardner	"	G.Z.	"
4	"	"	"	C.C.	"
4	"	Hampton	"	Bulk density	"
4	500-505cm	Dean	"	I.G.	"
4	"	Gardner	"	G.Z.	"
4	"	"	"	C.C.	"
4	550-555cm	Dean	"	I.G.	"
4	"	Gardner	"	G.Z.	"

NEBCO

SAMPLE LOG

LOCATOR: S1-79 SAMPLE NO: P2

STATION NO: 8

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
4	550-555cm	Gardner	USGS	C.C.	3/29/79
4	"	Hampton	"	Bulk density	"
5	600-605cm	Dean	"	I.G.	"
5	"	Gardner	"	G.Z.	"
5	"	"	"	C.C.	"
5	650-655cm	Dean	"	I.G.	"
5	"	Gardner	"	G.Z.	"
5	"	"	"	C.C.	"
5	"	Hampton	"	Bulk density	"
5	700-705cm	Dean	"	I.G.	"
5	"	Gardner	"	G.Z.	"
5	"	"	"	C.C.	"
6	750-755cm	Dean	"	I.G.	"
6	"	Gardner	"	G.Z.	"
6	"	"	"	C.C.	"
6	"	Hampton	"	Bulk density	"
6	800-805cm	Dean	"	I.G.	"
6	"	Gardner	"	G.Z.	"
	Core catcher	"	"	Palaeontology	"

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USGS STATION LOG

SHIP / LEG S1-79

LATITUDE 18° 07.49'N

LONGITUDE -117° 31.31'W

STATION NO. 9

LINE NO. 36

DAY/MONTH/YEAR

DATE 29/3/79

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Camera Drop C7	3948-3959m	100 photos		
Piston Core P3 -1	3970m	4m		
Piston Core P3-2	3970m	680 cm		
P3 Trigger Core	3970m	90 cm		

Double Hit

REMARKS: On station--JD 088/2204

C7--on bottom @2320 18° 07.04'N
-117° 32.58'W

off bottom @0158,JD 089 18° 06.89'N
-117° 31.20'W

P3--on bottom @089/0627 18° 04.86'N
-117° 38.05'W

P3 - apparent double hit, 2 separate cores described as P3-1 and P3-2

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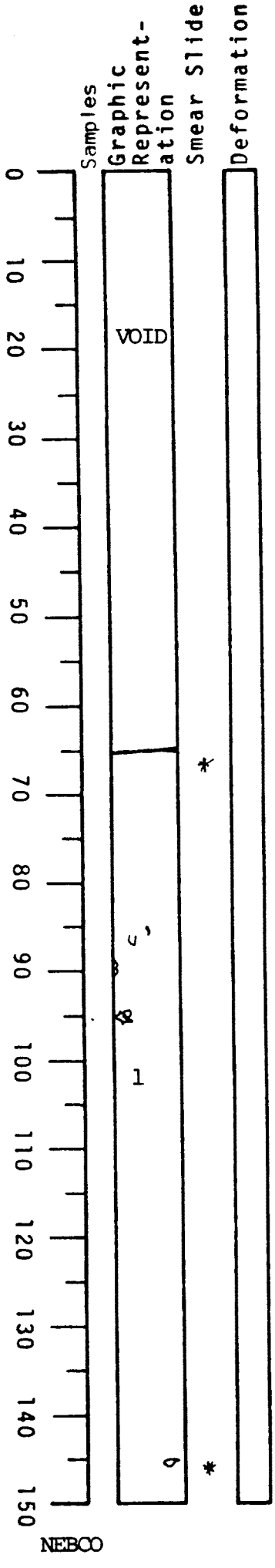
VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	1	7	9					P	3	-	1		0	1

STATION#				OBSERVER
			9	RYA

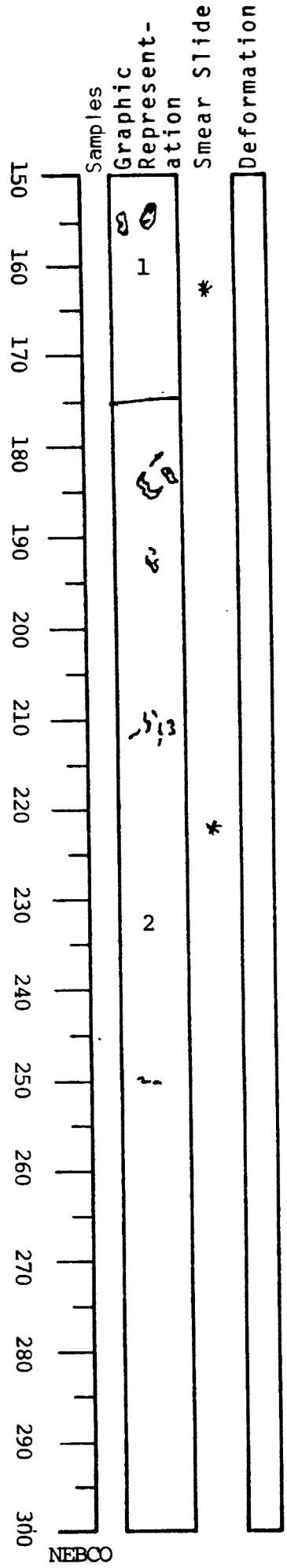


1. Clay,micronodule bearing,moderate brown(5YR 3/4), moderately soft,slightly mottled.Burrows rare, filled with pale yellowish orange(10YR 7/4) clay.

VISUAL CORE DESCRIPTION

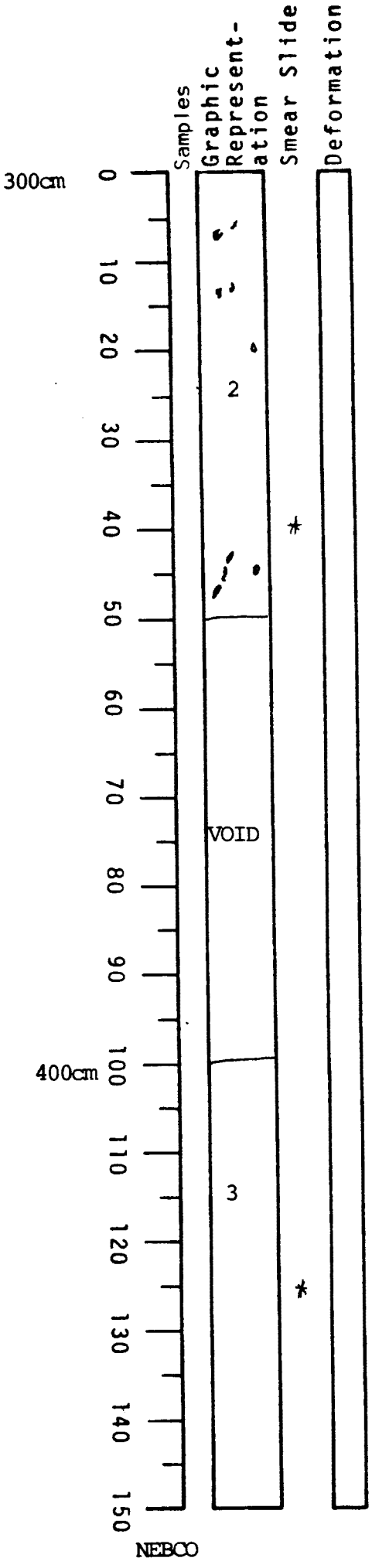
LOCATOR	SAMPLE NO.	SEC.
S1-79	P3-1	02

STATION#	OBSERVER
9	RYA



1. See Sec. 01

2. Clay,micronodule bearing,greyish brown(5YR 3/2), slightly mottled & burrowed,moderately soft.Gradational upper contact.Burrow fillings pale yellowish orange(10YR 7/4) clay,somewhat more stiff and dry between 200-230cm.



VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	1	-	7	9				P	3	-	1		0	3

STATION#				OBSERVER
			9	RYA

2. See Sec. 2,unit 2

3. Clay,micronodule bearing,moderate brown(5YR 4/4), wet,soft(soupy),homogeneous.

NOTE: this unit may actually be upper part of P3-2(has large &common micronodules)

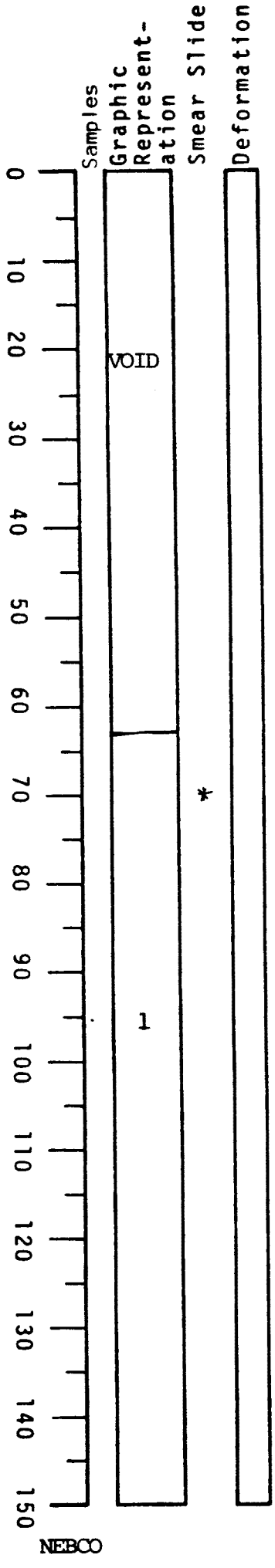
P3-2 is the "gravity" core collected in the self-same core liner &barrel as P3-1,the natural end result being this area(zone) of mixture and confusion between these two cores.

(P3-2 described on next sheet)

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	1	-	7	9				P	3	-	2		0	1

STATION#				OBSERVER
			9	RYA

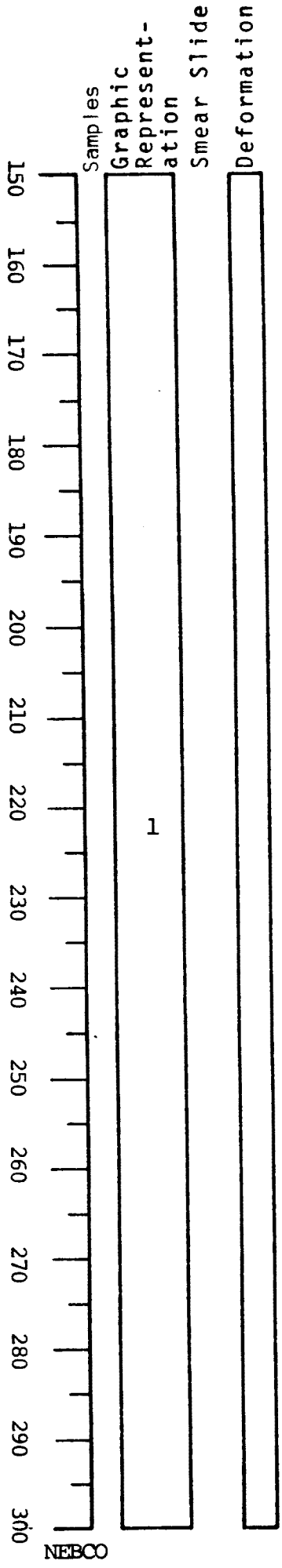


1. Clay, micronodule bearing, moderate brown (5YR 4/4), wet, soft (soupy), homogeneous.

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	1	-	7	9				P	3	-	2		0	2

STATION#				OBSERVER
			9	RYA



1.See sec.01,unit 1

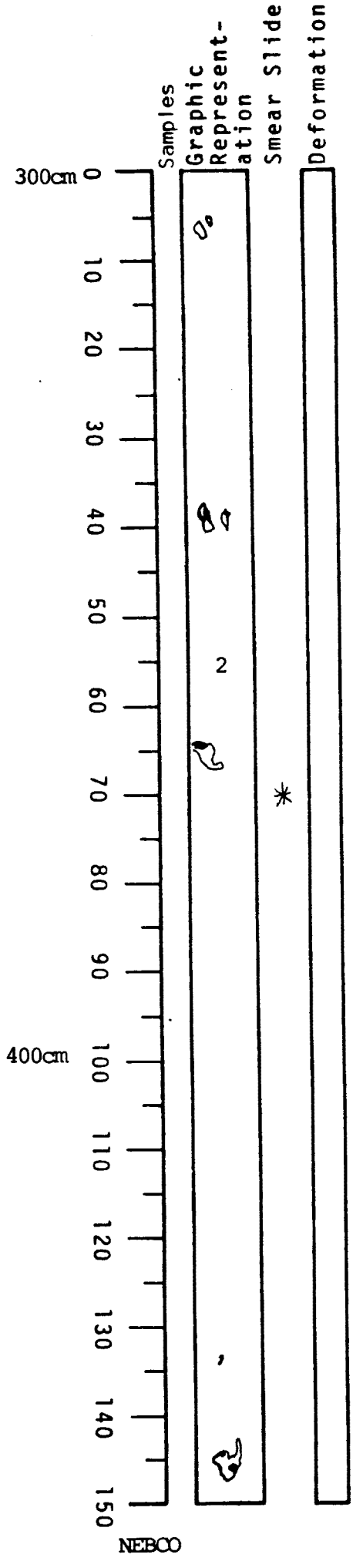
Less soupy & some mottling near bore.

NOTE:upper half(75cm)is soupy and missing from core liner—apparently leaked out during recovery--as this was the unit between the overlying piston core and the underlying "gravity" core.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-79	P3-2	03

STATION#	OBSERVER
9	RYA



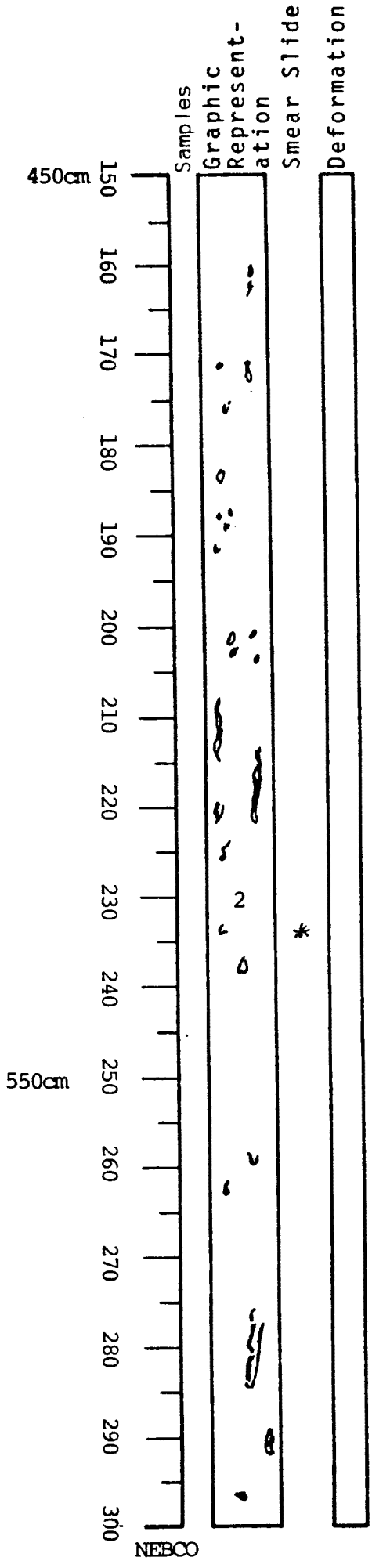
2. Clay, micronodule bearing, moderate brown (5YR 4/4), soft, some mottling, yellowish orange burrow fillings. Gradational contact W/overlying wet soupy layer.

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	1	-	7	9				P	3	-	2		0	4

STATION#				OBSERVER
			9	RYA

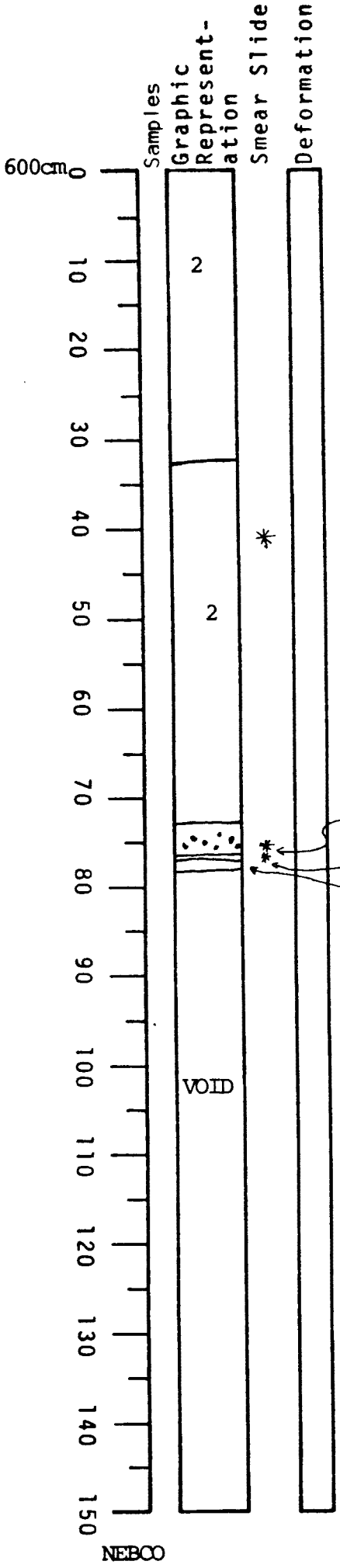
2. See sec.03,unit 2



VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S 1 7 9	P 3 - 2	0 5

STATION#	OBSERVER
9	RYA



Note: this section recovered intact from sawed off core catcher & drill pipe.

Fe & Mn? aggregates

Palagonite layer

Basaltic glass

NOTE: top of this core is probably (from Mn micronodule abundance) the top of unit 3 of P3,Sec.03

Sediment layer over basalt is therefore 5-6m thick.

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3-1	01	67cm	9	X		RYA

Sediment Name: Clay,micronodule bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
R *	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
R-C	Micro Nodules		
	Dolo. Rhombs		
TR	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		none
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

* Large brownish shards,partially devitrified.
Ferruginous spheres & aggregates 3-10μ

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

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SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3-1	01	146cm	9	X		RYA

Sediment Name: Clay,micronodule bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
	Clay Mnls.	
TR *	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
R-C	Micro Nodules	10-15 μ
	Dolo. Rhombs	
R-TR	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	
	Radiolarians	none
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

* Large brownish shards w/devitrified margins

Fe spheres &aggregates, 3-5 μ

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3-1	02	163cm	9	X		RYA

Sediment Name: Clay, micronodule bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
	Clay Mnls.	
TR	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
R-C	Micro Nodules	10-20μ
	Dolo. Rhombs	
TR	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	
	Radiolarians	none
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PERCENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3-1	02	222cm	9	X		RYA

Sediment Name: Clay, micronodule bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
TR *	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C-A	Micro Nodules		10-40μ
	Dolo. Rhombs		
TR	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		none
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

* Large brown shards, devitrified on margins.

Fe spheres & aggregates.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3-1	03	340cm	9	X		RYA

Sediment Name: Clay.

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
	Clay Mnls.	
TR	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
R	Micro Nodules	10-40μ
	Dolo. Rhombs	
TR	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	none
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:
Fe spheres & aggregates, 2-4μ

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3-1	03	426cm	9	X		RYA

Sediment Name: ~~Clay,micronodule bearing~~

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
TR	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
	Clay Mnls.	
TR	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
C	Micro Nodules	10-80μ
	Dolo. Rhombs	
R	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	none
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PERCENT	DETAILED MINERALOGY

REMARKS:

Fe spheres & aggregates, 3-4 μ

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3-2	1	70cm	9	X		RYA

Sediment Name: Clay, micronodule bearing

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
R	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		10-30 μ
	Dolo. Rhombs		
R	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
TR*	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY
	Grey shards W/devitr. margins

REMARKS:

Fe spheres & aggrgates, 5-30 μ

*Rads, Diatoms } fragments

only one frag. in entire slide

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3-2	3	370cm	9	X		RYA

Sediment Name: Clay,micronodule bearing

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		10-30
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		none
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3-2	04	534cm	9	X		RYA

Sediment Name: Clay

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
R	Micro Nodules		10-20μ
	Dolo. Rhombs		
R	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3-2	cc	cc 640 cm	9	X		RYA

Sediment Name: ~~Clay,micronodule bearing~~

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
D	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
TR *	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
C	Micro Nodules		15-30μ
	Dolo. Rhombs		
R	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		none
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:
* Grey w/devitrified margins

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3-2	cc	cc 676 cm	9	X		RYA

Sediment Name: Iron-Mn? aggregates & coatings, palagonitic, volcanic glass shards.

ABUNDANCE	TEXTURE	SPECIFIC DATA		PERCENT	DETAILED MINERALOGY
	Sand				
	Silt				
	Clay				
	COMPOSITION				
	Quartz				
	Feldspar				
	Mica				
	Heavy Mnls.				
	Total Detrital				
	Clay Mnls.				
A	Volc. Glass				
	Palagonite				
	Chlorite				
	Glauconite				
	Pyrite				
	Micro Nodules				
	Dolo. Rhombs				
	Zeolite				
	Auth. Carb.				
	Rock Frags.				
A *	Fe(Mn?) Aggregate				
	Foraminifera				
	Calc. Nannos				
	Diatoms				
	Radiolarians				
	Sponge Spic.				
	Silicoflag.				
	Fish Remains				
	Plant Debris				

REMARKS:

* Dark streak Palagonitic

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3-2	cc	cc 677 cm	9	X		RYA

Sediment Name: Palagonite

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
	Volc. Glass		
D	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

NOTE: Fe spheres & aggregates are formed within Palagonite masses. Is Palagonite source?

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3		c.c.	9	X		RYA

Sediment Name: Clay

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
TR	Quartz	
TR	Feldspar	Plag.,lg frags
	Mica	
	Heavy Mnls.	
	Total Detrital	
	Clay Mnls.	
TR*	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
R	Micro Nodules	
	Dolo. Rhombs	
TR	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	none
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

* Some glass shards devitrified. Fe spheres & aggregates, small, amber. 2-3 μ

No fossils

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

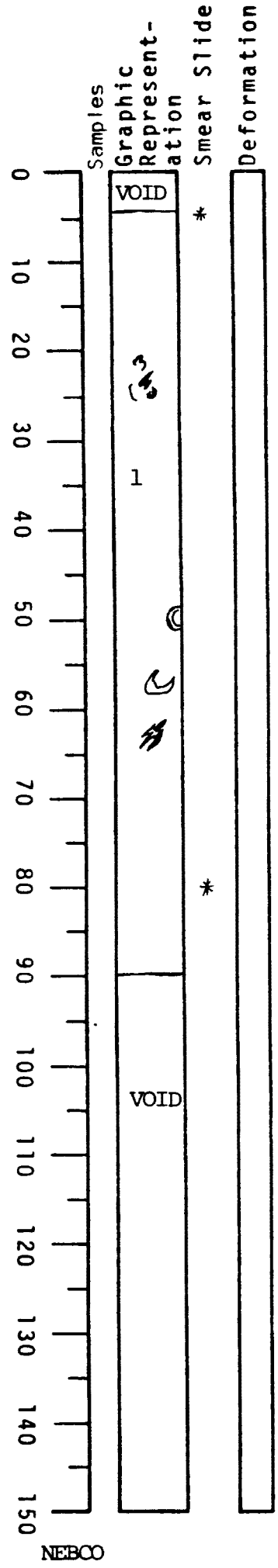
Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.	
S	1	-	7	9				P	3				T	C

TRIGGER CORE

STATION#				OBSERVER
				RYA



1. Clay, moderate brown (5 YR 3/4), moderately soft, slightly mottled, yellow orange burrow fillings.

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3	t.w.	.2cm	9	X		RYA

Sediment Name: Clay

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
	Silt	
D	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
	Heavy Mnls.	
	Total Detrital	
	Clay Mnls.	
*	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
R	Micro Nodules	10 μ
	Dolo. Rhombs	
R	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:
* Grey shards, devitrified margins.
Fe aggregates & spheres.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S1-79	P3	T.W.	80cm	9	X		RYA

Sediment Name: Clay

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
R	Micro Nodules		10-30μ
	Dolo. Rhombs		
R	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:
Fe spheres

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

SAMPLE LOG

LOCATOR: S1-79 SAMPLE NO: P3

STATION NO: 9

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
cc					

NEBCO