USGS STATION LOG

SHIP / LEG S3-77-BS

LATITUDE 057° 02.15' N

LONGITUDE -176° 59.96' W

STATION NO. 1

LINE NO.

DAY/MONTH/YEAR

DATE 23/6/77

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Gravity Core 1G1	3643 m	85 cm		
Gravity Core 1G2	3643 m	91 cm		
Heat Flow Gauge	3643 m	No Recovery		

REMARKS:

Gravity Core 1G1 - bulk of sample for gas analysis, no detailed sample description, 0-2 cm and core catcher went to Arnal (USGS, Menlo Park) for paleontology.

Heat Flow Gauge - no data recovered.

SAMPLE LOG

LOCATOR: S3-77-BS SAMPLE NO: 1G1

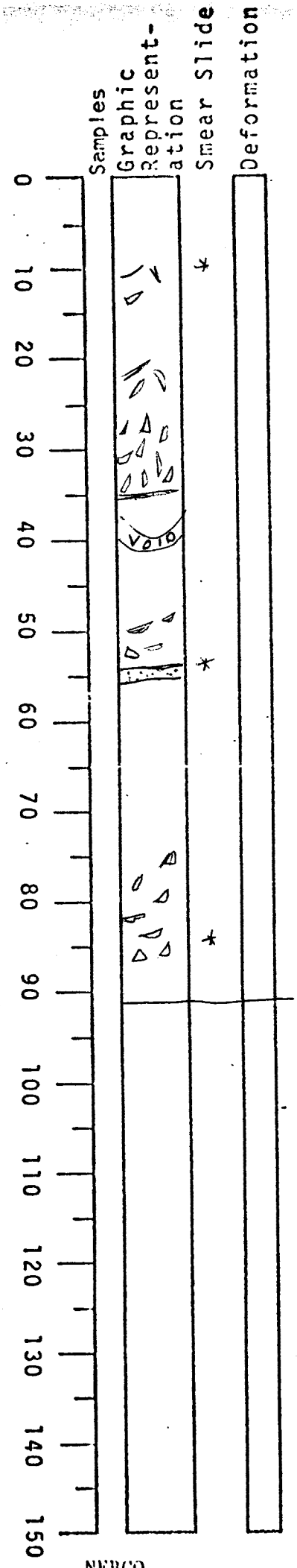
STATION NO: 1

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	0-2 & Core Catcher	Bob Arnal	USGS	Forams	6/23/77
1	2-85 cm	Keith Kvenvolden	USGS	Organic Geochem.	6/23/77

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.						SEC.
S	3	-	7	7	-	B	S			1	G	2		1

STATION#				OBSERVER
			1	TV



0-35 cm, Clayey Diatom Ooze, dusky yellow green (5GY5/2) grading to grayish olive green (5GY3/2), heavily burrowed 24 to 35 cm

35 cm, Diatomaceous Sand, greenish black (5GY2/1), thin bed about 4 mm thick

35-54 cm, Clayey Diatom Ooze, grayish olive green (5GY3/2) some burrowing

54-55 cm, Diatomaceous Sand, greenish black (5GY2/1)

55-91 cm, Sandy Diatom Ooze, dusky yellow green (5GY5/2) grading to grayish olive green (5GY3/2), heavily burrowed in lower part.

Base of section at 91 cm

NERCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S3-77-BS	1G2	1	10 cm	1	X		TV

Sediment Name: Clayey Diatom Ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
TR	Quartz		
TR	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
D	Diatoms		
TR	Radiolarians		
TR	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
S3-77-BS	1G2	1	54 cm	1		X	TV

Sediment Name: Diatomaceous Sand

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

PER-CENT	DETAILED MINERALOGY

REMARKS:

Pyrite/Marcasite spheres in many diatom tests

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
S3-77-BS	1G2	1	85 cm		X		TV

Sediment Name: Sandy Diatom Ooze

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

USGS STATION LOG

SHIP / LEG S3-77-BS

LATITUDE 56° 37.69' N

LONGITUDE -178° 12.21' W

STATION NO. 2

LINE NO.

DAY/MONTH/YEAR

DATE 24/6/77

TYPE OF STORAGE (check one)

	DRY	COLD	FROZEN
		X	X

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Gravity Core 2G1	3778 m	102 cm		
Gravity Core 2G2	3777 m	126 cm		
Gravity Core 2G3	3777 m	134 cm		
Heat Flow Gauge	3777 m	No Recovery		

REMARKS:

Heat Flow Gauge - aparatus attached to gravity core for each coring attempt, no data recovered at this station.

Gravity Core 2G1 - location: 56° 37.69' N, -178° 12.21' W, no sample description, core saved for gas analysis.

Gravity Core 2G2 - location: 56° 37.72' N, -178° 12.15' W, no sample description, core frozen and archived.

Gravity Core 2G3 - location: 56° 37.87' N, -178° 12.21' W, no sample description, core frozen and archived.

SAMPLE LOG

LOCATOR: S3-77-BS

SAMPLE NO: 2G1, 2G2, 2G3

STATION NO: 2

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
2G1	2-102 cm	Keith Kvenvolden	USGS	Gas Analysis	6/24/77
2G1	0-2 & Core Catcher	Bob Arnal	USGS	Forams	6/24/77
2G2	0-126 cm	Keith Kvenvolden	USGS	Archive	6/24/77
2G2	Core Catcher	Bob Arnal	USGS	Forams	6/24/77
2G3	0-134 cm	Keith Kvenvolden	USGS	Archive	6/24/77

USGS STATION LOG

SHIP / LEG S3-77-BS

LATITUDE 55° 59.98' N

LONGITUDE -179° 21.99' W

STATION NO. 3

LINE NO.

DAY/MONTH/YEAR

DATE 25/6/77

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Gravity Core 3G1	3853 m	249 cm		
Gravity Core 3G2	3850 m	260 cm		
Heat Flow Gauge	3850 m	No Recovery		

REMARKS:

Gravity Core 3G1 - location: 55° 59.98' N, -179° 21.99' W, no sample description, core went for gas analysis.

Gravity Core 3G2 - location: 56° 00.10' n, -179° 22.09' W

Heat Flow Gauge - 2 attempts, no data recovered.

SAMPLE LOG

LOCATOR: S3-77-BS

SAMPLE NO: Gravity Core 3G1

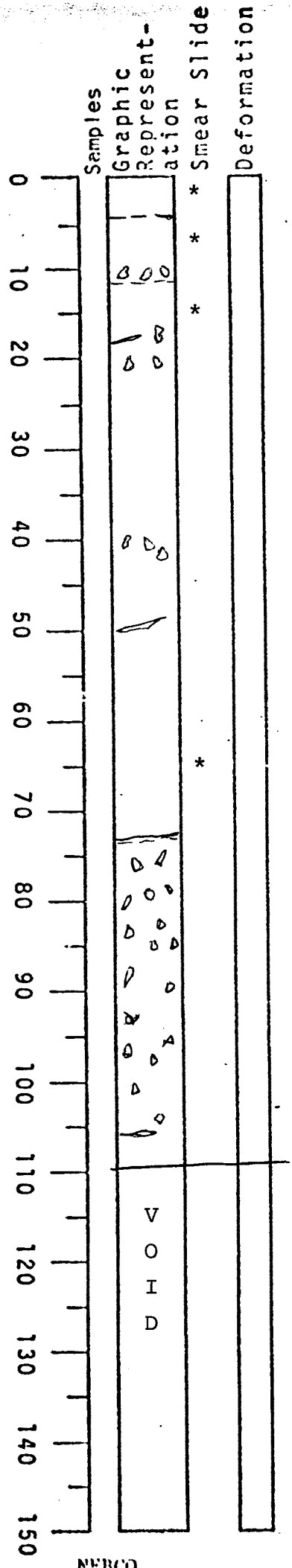
STATION NO: 3

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	0-2 cm	Bob Arnal	USGS	Forams	6/25/77
1 & 2	2-240 cm	Keith Kvenvolden	USGS	Gas Analysis	6/25/77

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
S	3	-	7	7	-	B	S			3	G	2	1

STATION#				OBSERVER
			3	TV



0-3 cm, Diatomaceous Silty Sand, grayish olive green (5GY 3/2)

3-12 cm, Clay-Bearing Diatom Ooze, moderate brown (5YR 3/4) grading down to moderate yellowish brown (10YR 5/4), burrows common

12-72 cm, Diatomaceous Silt, grayish olive green (5GY 3/2) with burrows of dark greenish gray (5G 4/1), burrows rare to common.

72-73 cm, Diatomaceous Sand, greenish black (5GY 2/1)

73-117 cm, Diatomaceous Silt (?), same as 12-72 cm interval, abundant burrows

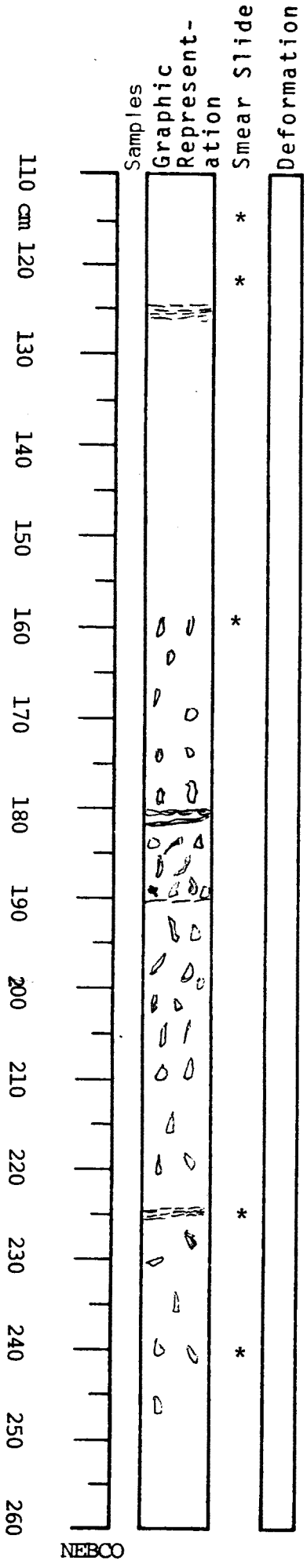
There seems to be no change in composition (diatom ooze) between the oxidized (brown) bed and the underlying olive green beds.

Artificial void due to cutting error.

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
S	3	-	7	7	-	B	S			3	G	2	2

STATION#				OBSERVER
			3	TV



110-123 cm, Diatomaceous Mud, grayish olive green (5GY 3/2), deformed

123-124 cm, Diatomaceous Sand, dark greenish gray (5GY 4/1)

124-224, Muddy Diatom Ooze and Diatomaceous Mud, olive gray (5Y 3/2) with dark greenish gray (5GY 4/1) burrows, burrowing heavy in 180-190 cm interval

224-225 cm, Diatomaceous Sand, dark greenish gray (5GY 4/1)

245-260 cm, Diatomaceous Sand and Diatomaceous Mud, dark greenish gray (5GY 3/1, burrowed

Sands are fine to very fine with an abundance of silt-sized particles. Typical sands have quartz, feldspar, and diatoms as major components.

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S3-77-BS	3G2	1	2 cm	3		X	TV

Sediment Name: Diatomaceous Silty Sand

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
C-A	Quartz		
C-A	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
C	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
A	Diatoms		
	Radiolarians		
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
S3-77-BS	3G2	1	7 cm	3		X	TV

Sediment Name: Clay-Bearing Diatom Ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
R	Quartz		
R	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
C	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
D	Diatoms		
TR	Radiolarians		
TR	Sponge Spic.		
TR	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
S3-77-BS	3G2	1	15 cm	3		X	TV

Sediment Name: Clay-Bearing Diatom Ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
R	Quartz		
R	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
C	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
TR??	Calc. Nannos		
A-D	Diatoms		
TR	Radiolarians		
C	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
S3-77-BS	3G2	1	65 cm	3	X		TV

Sediment Name: Diatomaceous Silt

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
C	Quartz		
C	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
A	Diatoms		
TR	Radiolarians		
TR	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
S3-77-BS	3G2	2	115 cm	3		X	TV

Sediment Name: Diatomaceous Mud

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
X	Clay		
	COMPOSITION		
TR	Quartz		
TR	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
1	Foraminifera		
TR	Calc. Nannos		
A	Diatoms		
TR	Radiolarians		
TR	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
S3-77-BS	3G2	2	123 cm	3		X	TV

Sediment Name: Diatomaceous Sand

ABUNDANCE	TEXTURE	SPECIFIC DATA	
X	Sand		
X	Silt		
	Clay		
	COMPOSITION		
A	Quartz		
A	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
C	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
A	Diatoms		
TR	Radiolarians		
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
S3-77-BS	3G2	2	160 cm	3	X		TV

Sediment Name: Muddy Diatom Ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
TR	Quartz		
TR	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
TR	Foraminifera		
TR	Calc. Nannos		
A	Diatoms		
TR	Radiolarians		
TR	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
S3-77-BS	3G2	2	225 cm	3		X	TV

Sediment Name: Diatomaceous Sand

ABUNDANCE	TEXTURE	SPECIFIC DATA	
X	Sand		
X	Silt		
	Clay		
	COMPOSITION		
A	Quartz		
A	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
C	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
A	Diatoms		
TR	Radiolarians		
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
S3-77-BS	3G2	2	240 cm	3	X		TV

Sediment Name: Diatomaceous Sand

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

PER-CENT	DETAILED MINERALOGY

REMARKS:

Silt-sized particles of quartz and feldspar common.

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: S3-77-BS

SAMPLE NO: 3G2

STATION NO: 3

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	0-2 cm	Walt Dean	USGS-Denver	Inorganic Geochem.	9/3/77
	0-2 cm	James Gardner	USGS	Clay Mineralogy	9/3/77
	0-2 cm	James Gardner	USGS	Carbon-Carbonate	9/3/77
	5-7 & 9-11 cm	Walt Dean	USGS/Denver	Inorganic Geochem.	9/3/77
	5-7 & 9-11 cm	James Gardner	USGS	Clay Mineralogy	9/3/77
	5-7 & 9-11 cm	James Gardner	USGS	Carbon-Carbonate	9/3/77
	15-17 cm	Walt Dean	USGS/Denver	Inorganic Geochem.	9/3/77
	15-17 cm	James Gardner	USGS	Clay Mineralogy	9/3/77
	15-17 cm	James Gardner	USGS	Carbon-Carbonate	9/3/77

USGS STATION LOG

SHIP / LEG S3-77-BS

LATITUDE 55° 29.77' N

LONGITUDE -176° 52/44' W

STATION NO. 4

LINE NO.

DAY/MONTH/YEAR

DATE 26/6/77

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Gravity Core 4G1	3874 m	211 cm		
Gravity Core 4G2	3881 m	No Recovery		
Gravity Core 4G3	3881 m	211 cm		
Heat Flow Gauge	3881 m	Recovery		

REMARKS:

Gravity Core 4G1 - location: 55° 29.77' N, -176° 52.44' W, no sample description, core cut up for gas analysis.

Gravity Core 4G3 - location: 55° 29.83' N, -176° 52.41' W

Heat Flow Gauge - contact Alan Cooper (USGS-Menlo Park) for heat flow data.

SAMPLE LOG

LOCATOR: S3-77-BS SAMPLE NO: 4G1

STATION NO: 4

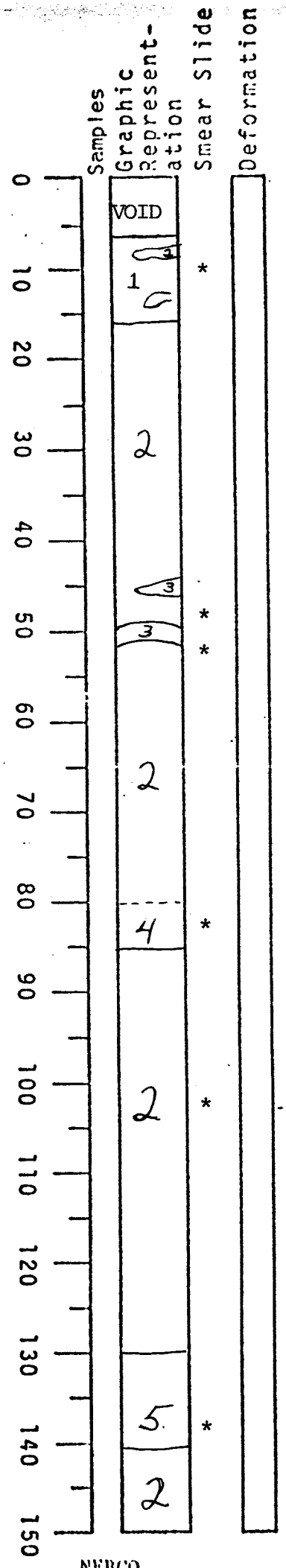
SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	0-2 cm	Bob Arnal	USGS	Forams	6/26/77
1	2-210 cm	Keith Kvenvolden	USGS	Gas Analysis	6/26/77

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR							SAMPLE NO.					SEC.
S	3	-	7	7	-	B	S			4	G	3		1

STATION#	OBSERVER
4	JVG



#1, DIATOM OOZE, 0-16 cm, moderate brown (5YR 3/4), sharp basal contact with black band, possible burrow at base, possible burrow of unit 2 at top.

#2, DIATOM OOZE, 16-204 cm, greenish gray (5GY 5/1), zoophycus tracks throughout, otherwise homogeneous

#3, DIATOM OOZE, 45-46 and 48-50 cm, dark greenish gray (5GY 4/1), sharp upper and lower contacts

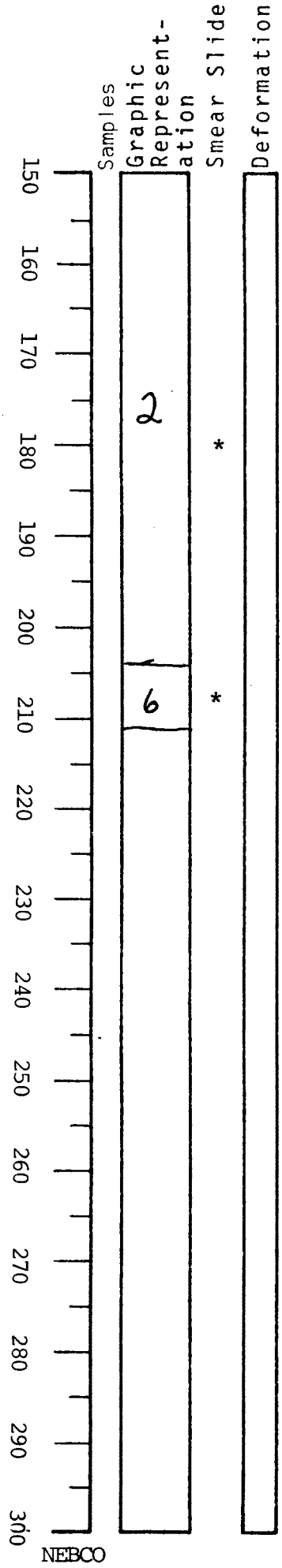
#4, SANDY SILT, 78-85 cm, grayish black (N2), sharp basal contact, gradational upper contact, probable turbidite

#5, DIATOM OOZE, 130-140 cm, dark greenish gray (5G 4/1), sharp upper contact, gradational basal contact, zoophycus

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
S	3	-	7	7	-	B	S			4	G	3	2

STATION#				OBSERVER
			4	JVG



#2, DIATOM-BEARING SILTY CLAY, greenish gray (5GY 5/1), zoophycus burrows, homogeneous

#6, DIATOM OOZE, 205-211 cm, greenish gray (5GY 5/1), sharp upper contact, homogeneous

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S3-77-BS	4G3	1	11 cm	4	X		JVG

Sediment Name: Diatom Ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
TR	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
R	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
TR	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
D	Diatoms		
TR	Radiolarians		
TR	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
S3-77-BS	4G3	1	49 cm	4	X		AAB

Sediment Name: Diatom Ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
TR	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
TR	Foraminifera		
	Calc. Nannos		
D	Diatoms		
TR	Radiolarians		
TR	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
S3-77-BS	4G3	1	53 cm	4	X		AAB

Sediment Name: Diatom Ooze Silt-Bearing

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

PER-CENT	DETAILED MINERALOGY

REMARKS:

Iddingsite; pyroxene, epidote

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
S3-77-BS	4G3	1	83 cm	4		X	AAB

Sediment Name: Sand-Rich silt

ABUNDANCE	TEXTURE		SPECIFIC DATA
10-15%	Sand		
80%	Silt		
5%	Clay		
	COMPOSITION		
C	Quartz		
C	Feldspar		Plagioclase
	Mica		
C-R	Heavy Mnls.		
	Total Detrital		
TR-R	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
TR	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
TR	Foraminifera		Sand Size
	Calc. Nannos		
TR	Diatoms		
	Radiolarians		
TR	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

Hypersthene; Iddingsite; Epidote (?); Zircon.

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
S3-77-BS	4G3	1	104 cm	4	X		AAB

Sediment Name: Diatom Ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
TR	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
D	Diatoms		
	Radiolarians		
TR	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
S3-77-BS	4G3	1	139 cm	4	X		AAB

Sediment Name: Diatom Ooze

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

PER-CENT	DETAILED MINERALOGY

REMARKS:

TR: Hypersthene, Iddingsite, Zircon, Clinopyroxene

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
S3-77-BS	4G3	2	180 cm	4		X	AAB

Sediment Name: Diatom-Bearing Silty Clay

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

PER-CENT	DETAILED MINERALOGY

REMARKS:

Pyritized Diatoms, Zircon

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
S3-77-BS	4G3	2	208 cm	4	X		AAB

Sediment Name: Diatom Ooze

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

PER-CENT	DETAILED MINERALOGY

REMARKS:

Pyritized diatoms, hypersthene, epidote, iddingsite

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: S3-77-BS

SAMPLE NO: 4G3

STATION NO: 4

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	10-12 cm	Walt Dean	USGS/Denver	Inorganic Geochem.	9/3/77
1	13-15 cm	Walt Dean	USGS/Denver	Inorganic Geochem.	9/3/77
1	21-23 cm	Walt Dean	USGS/Denver	Inorganic Geochem.	9/3/77
1	10-12 cm	James Gardner	USGS	Clay Mineral. C - CO_3	9/3/77
1	13-15 cm	James Gardner	USGS	Clay Mineral. C - CO_3	9/3/77
1	21-23 cm	James Gardner	USGS	Clay Mineral. C - CO_3	9/3/77

USGS STATION LOG

SHIP / LEG S3-77-BS

LATITUDE 56° 31.08' N

LONGITUDE -176° 49.97' W

STATION NO. 5

LINE NO.

DAY/MONTH/YEAR

DATE 27/6/77

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Gravity Core 5G1	3857 m	60 cm		
Gravity Core 5G2	3858 m	No Recovery		
Gravity Core 5G3	3858 m	101 cm		
Heat Flow Gauge	3858 m	Recovery		

REMARKS:

Gravity Core 5G1 - Location: 56° 31.08' N, -176° 49.97' W

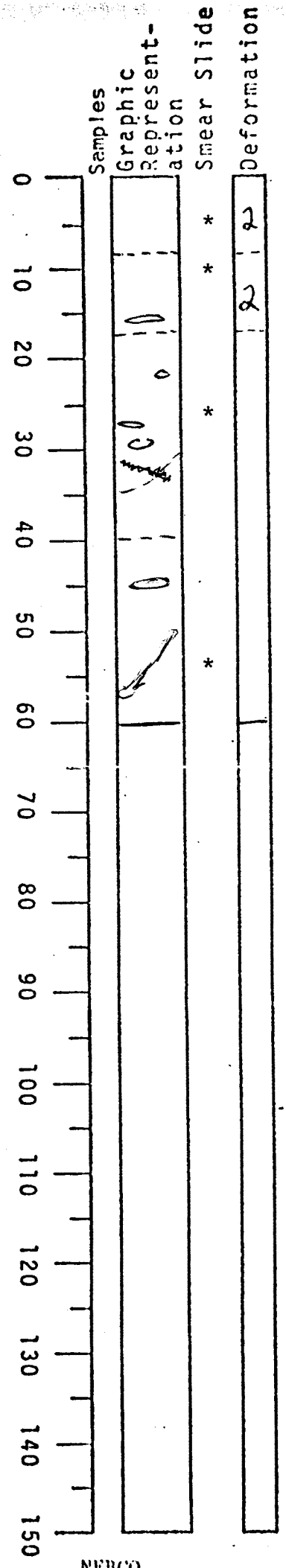
Gravity Core 5G3 - Location: 56° 30.96' N, -176° 50.32' W, no sample description found, core lost???

Heat Flow Gauge - data recovered, for information contact Alan Cooper (USGS)

VISUAL CORE DESCRIPTION

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

STATION#	OBSERVER
5	HK



0-8 cm, MUDDY DIATOM OOZE, grayish olive green (5GY 3/2) homogeneous and highly deformed

8-17 cm, DIATOM OOZE, moderate brown (5YR 3/4), homogeneous and uniform in color from 8-14 cm, grading into a light olive gray (5Y 5/2) to 17 cm, section highly deformed at top and becoming less deformed at the base

17-60 cm, CLAY-BEARING DIATOM OOZE, olive gray (5Y 3/2) with grayish olive green (5GY 3/2) mottles at 30 cm, 45 cm and 50 cm. Two extensive grayish olive green intervals occur at 30-40 cm and 50-60 cm. A small grayish black (5G 2/1) SANDY SILT layer occurs at 50 cm trending diagonally to 57 cm. This section is essentially undeformed.

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S3-77-BS	5G1	1	5 cm	5			HK

Sediment Name: Muddy Diatom Ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
R-C	Quartz		
R-C	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
C-A	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
A	Diatoms		
	Radiolarians		
TR	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
S3-77-BS	5Gl	1	10 cm	5			HK

Sediment Name: _____

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
A	Diatoms		
	Radiolarians		
C	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
S3-77-BS	5G1	1	27 cm	5			

Sediment Name: Clay-Bearing Diatom Ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
99%	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
C	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
A	Diatoms		
	Radiolarians		
TR	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
S3-77-BS	5G1	1	55 cm	5			NEB

Sediment Name: Sandy Silt

ABUNDANCE	TEXTURE	SPECIFIC DATA	
20%	Sand		
70%	Silt		
10%	Clay		
	COMPOSITION		
A	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
C	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
TR	Diatoms		
	Radiolarians		
TR	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: S3-77-BS SAMPLE NO: 5G1

STATION NO: 5

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	0-2 & 6-8 cm	Walt Dean	USGS/Denver	Inorganic Geochem.	9/3/77
1	10-11 & 12-13 cm	Walt Dean	USGS/Denver	Inorganic Geochem.	9/3/77
1	20-22 cm	Walt Dean	USGS/Denver	Inorganic Geochem.	9/3/77
1	0-2 cm	James Gardner	USGS	Clay Mineral. C - CO_3	9/3/77
1	6-8 & 10-11 cm	James Gardner	USGS	Clay Mineral. C - CO_3	9/3/77
1	20-22 & 12-13 cm	James Gardner	USGS	Clay Mineral. C - CO_3	9/3/77

USGS STATION LOG

SHIP / LEG S3-77-BS

LATITUDE 57° 19.95' N

LONGITUDE -176° 51.05' W

STATION NO. 6

LINE NO.

DAY/MONTH/YEAR

DATE 28/6/77

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Gravity Core 6G1	3831 m	131 cm		
Gravity Core 6G2	3832 m	198 cm		
Heat Flow Gauge	3831 m	Recovery		

REMARKS:

Gravity Core 6G1 - location: 57° 19.95' N, -176° 51.05' W

Gravity Core 6G2 - location: 57° 19.96' N, -176° 50.94' W, no sample description, core saved for gas analysis.

Heat Flow Gauge - data recovered, for more information see Alan Cooper (USGS)

SAMPLE LOG

LOCATOR: S3-77-BS

SAMPLE NO: 6G1

STATION NO: 6

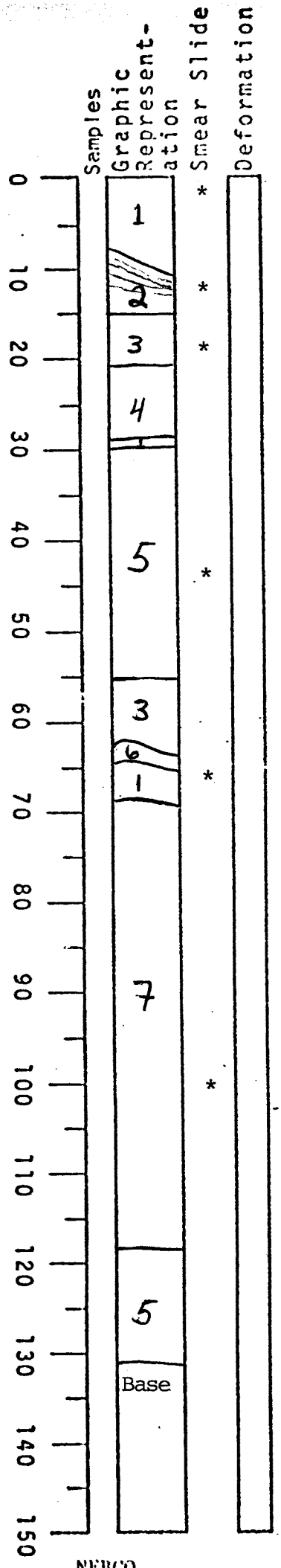
SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	5-7 & 10-12 cm	Walt Dean	USGS/Denver	Inorganic Geochem.	9/3/77
1	19-20 & 23-25 cm	Walt Dean	USGS/Denver	Inorganic Geochem.	9/3/77
1	5-7 & 10-12 cm	James Gardner	USGS	Clay Mineral. C - CO_3	9/3/77
1	19-20 & 23-25 cm	James Gardner	USGS	Clay Mineral. C - CO_3	9/3/77

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
S	3	-	7	7	-	B	S			6	G	1	1

STATION#				OBSERVER
			6	SDL



#1, SILTY CLAY, medium bluish gray (5B 5/1), 0-7 cm, homogeneous

#2, SILT, 7-15 cm, color grades from moderate brown (5YR 4/4) through moderate yellowish brown (10YR 5/4), dusky yellowish brown (10YR 2/2) to yellowish gray (5Y 7/2), color changes are very sharp, burrow mottling

#3, SILTY CLAY, grayish olive (10YR 4/2), homogeneous, 16-21 cm

#4, SILTY CLAY, greenish black (5G 2/1), 22-28 cm, homogeneous

#5, SILTY CLAY, dark gray (N3) 29-56 cm, homogeneous, some burrowing (?), no deformation, shell fragments at lower contact (56 cm)

#6, SILTY CLAY, grayish brown (5YR 3/2), 62-65 cm, homogeneous, sharp upper and lower contacts

#7, CLAY, dark greenish gray (5G 4/1), 69-119 cm, extensive burrow mottling, sharp upper contact, gradational lower contact

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S3-77-BS	6G1	1	2 cm	6	X		AAB

Sediment Name: Diatom Ooze

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

PER-CENT	DETAILED MINERALOGY

REMARKS:

Hypersthene

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
S3-77-BS	6G1	1	13 cm	6	X		AAB

Sediment Name: Diatom Ooze

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

PER-CENT	DETAILED MINERALOGY

REMARKS:

Hypersthene, Hematite, Pollen(TR)

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
S3-77-BS	6G1	1	20 cm	6	X		AAB

Sediment Name: Diatom Ooze

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
	Clay		
	COMPOSITION		
TR	Quartz		
TR	Feldspar		
TR	Mica		Muscovite
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
TR	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
	Diatoms		
D	Radiolarians		
TR	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
S3-77-BS	6G1	1	45 cm	6	X		DR

Sediment Name: Clay Bearing Silt

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
X	Silt		
X	Clay		
	COMPOSITION		
C	Quartz		
R	Feldspar		Plagioclase
TR	Mica		1 Grain
TR	Heavy Mnls.		
	Total Detrital		
C	Clay Mnls.		
R	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
TR	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
R	Diatoms		
	Radiolarians		
TR	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PERCENT	DETAILED MINERALOGY

REMARKS:

Hornblende, Pyroxene

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
S3-77-BS	6G1	1	67 cm	6	X		DR

Sediment Name: Diatom Bearing Clay

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
	Silt		
	Clay		
	COMPOSITION		
R	Quartz		
R	Feldspar		Plagioclase
	Mica		
TR	Heavy Mnls.		
	Total Detrital		
D	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
C	Diatoms		
TR	Radiolarians		
TR	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
S3-77-BS	6G1	1	100 cm	6	X		DR

Sediment Name: Diatom & Clay Bearing Silt

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
X	Silt	
X	Clay	
	COMPOSITION	
R	Quartz	
R	Feldspar	
	Mica	
TR	Heavy Mnls.	
	Total Detrital	
C	Clay Mnls.	
TR	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
	Micro Nodules	
	Dolo. Rhombs	
	Zeolite	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
C	Diatoms	
TR	Radiolarians	
TR	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: S3-77-BS SAMPLE NO: 6G2

STATION NO: 6

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	0-198 cm	Keith Kvenvolden	USGS	Gas Analysis	6/28/77
1	Core Catcher	Bob Arnal	USGS	Forams	6/28/77

NEBCO

USGS STATION LOG

SHIP / LEG S3-77-BS

LATITUDE 57° 59.99' N

LONGITUDE -176° 52.04' W

STATION NO. 7

LINE NO.

DAY/MONTH/YEAR

DATE 29/6/77

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Gravity Core 7G1	3793 m	107 cm		
Gravity Core 7G2	3794 m	No Recovery		
Gravity Core 7G3	3793 m	No Recovery		
Gravity Core 7G4	3793 m	98 cm		
Heat Flow Gauge	3793 m	Recovery		

REMARKS:

Gravity Core 7G1 - location: 57° 59.99' N, -176° 52.04' W

Gravity Core 7G4 - location: 58° 00.46' N, -176° 52.86' W, no sample description, sample saved for gas analysis.

Heat Flow Gauge - for specific data see Alan Cooper (USGS, Menlo Park, CA)

SAMPLE LOG

LOCATOR: S3-77-BS SAMPLE NO: 7G1

STATION NO: 7

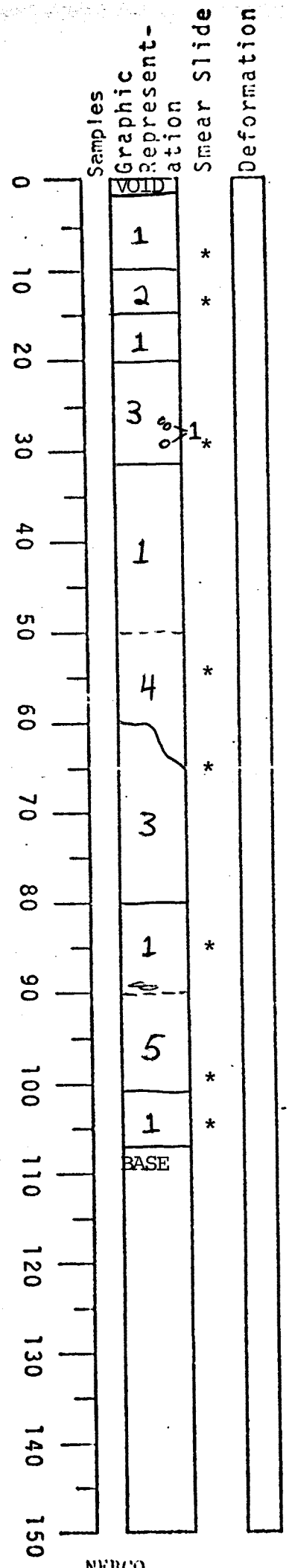
SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	5-7 & 10-12 cm	Walt Dean	USGS/Denver	Inorganic Geochem.	9/3/77
1	13-15 & 18-20 cm	Walt Dean	USGS/Denver	Inorganic Geochem.	9/3/77
1	5-7 & 10-12 cm	James Gardner	USGS	Clay Mineral. C - CO_3	9/3/77
1	13-15 & 18-20 cm	James Gardner	USGS	Clay Mineral. C - CO_3	9/3/77

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
S	3	-	7	7	-	B	S			7	G	1	1

STATION#				OBSERVER
			7	DR



No Deformation

#1, DIATOM CLAY, 0-10, 16-21, 81-89, 33-51 and 102-107 cm, greenish gray (5G 5/1), sharp basal contact, homogeneous, sharp upper contacts except at 51 cm.

#2, CLAYEY DIATOM OOZE, 10-16 cm, moderate brown (5YR 4/4), basal contact sharp and irregualr, upper contact irregular and streaked with unit #1

#3, SILTY SAND, 21-33 and 61-81 cm, dark greenish gray (5GY 4/1), top contact irregular but fairly sharp, basal contact sharp, burrowing, homogeneous

#4, DIATOM CLAY, 51-61+ cm, greenish black (5GY 2/1), mottled, basal contact irregular and fairly sharp, gradational upper contact

#5, CLAYEY SILT, 90-102 cm, greenish black (5GY 2/1) similar to unit #4, maybe the same unit, gradational upper contact, irregular basal contact

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S3-77-BS	7G1	1	13 cm	7		X	TV

Sediment Name: Clayey Diatom Ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
TR	Quartz		
R	Feldspar		
	Mica		
TR	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
TR	Volc. Glass		
TR	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
A	Diatoms		
TR	Radiolarians		
R	Sponge Spic.		
TR	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
S3-77-BS	7G1	1	30 cm	7	X		TV

Sediment Name: Diatomaceous Silty Clay

ABUNDANCE	TEXTURE	SPECIFIC DATA	
25%	Sand		
25%	Silt		
50%	Clay		
	COMPOSITION		
R	Quartz		
R	Feldspar		
	Mica		
TR	Heavy Mnls.		
	Total Detrital		
A	Clay Mnls.		
	Volc. Glass		
TR	Palagonite		
TR	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
A	Diatoms		
TR	Radiolarians		
R	Sponge Spic.		
TR	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

Sand fraction is mostly diatoms; also much of the silt 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
S3-77-BS	7G1	1	65 cm	7		X	TV

Sediment Name: Silty Sand

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
A	Quartz		
A	Feldspar		
	Mica		
R	Heavy Mnls.		
	Total Detrital		
R	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
TR	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
R	Rock Frags.		
R	Opaques		
	Foraminifera		
	Calc. Nannos		
TR	Diatoms		
	Radiolarians		
TR	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
S3-77-BS	7G1	1	100 cm	7		X	TV

Sediment Name: Clayey Silt

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

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)

60

SAMPLE LOG

LOCATOR: S3-77-BS

SAMPLE NO: 7G4

STATION NO: 7

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	0-2 cm	Bob Arnal	USGS	Forams	6/29/77
1	2-98 cm	Keith Kvenvolden	USGS	Gas Analysis	6/29/77

NEBCO

USGS STATION LOG

SHIP / LEG S3-77-BS

LATITUDE 58° 54.84' N

LONGITUDE -176° 51.68' W

STATION NO. 8

LINE NO.

DAY/MONTH/YEAR

DATE 30/6/77

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Gravity Core 8G1	3718 m	155 cm		
Gravity Core 8G2	3713 m	91 cm		
Heat Flow Gauge	3718 m	Recovery		

REMARKS:

Gravity Core 8G1 - location: 58° 54.84' N, -176° 51.68' W

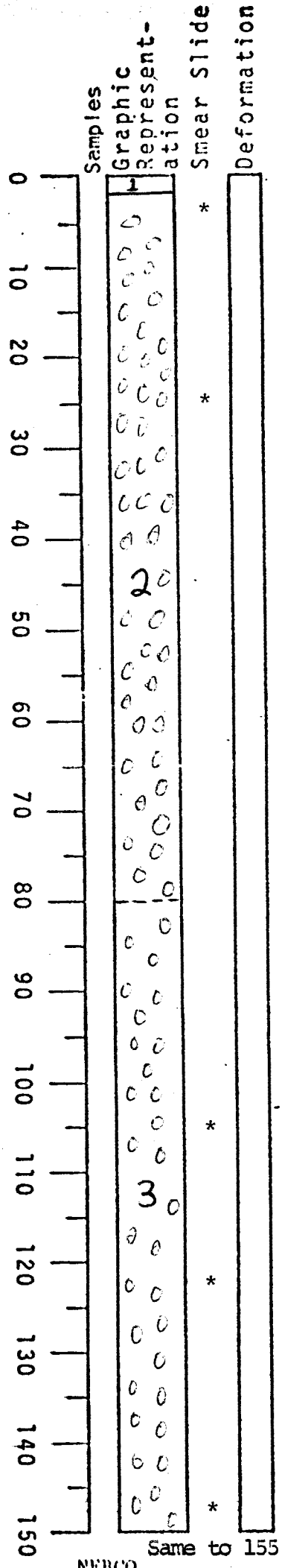
Gravity Core 8G2 - location: 58° 55.20' N, -176° 51.26' W, no sample description, sample saved for gas analysis

Heat Flow gauge - for specific data see Alan Cooper (USGS)

VISUAL CORE DESCRIPTION

LOCATOR								SAMPLE NO.					SEC.
S	3	-	7	7	-	B	S			8	G	1		1

STATION#				OBSERVER
			8	WD



#1, SILTY CLAY, moderate brown (5YR 4/4), 0-1 cm oxidized layer

#2, SILTY CLAY, 1 cm to ca. 80 cm, dominant color grayish olive green (5GY 3/2), burrow mottled throughout with slightly lighter material

#3, SILTY CLAY, ca. 80 cm to 155 cm, dark greenish gray (5GY 4/1) same as unit #2 but darker in color - contact between units #2 and #3 is a very gradational color change, burrow mottled throughout with both darker (greenish black, 5G 2/1) and lighter (dark greenish gray, 5G 4/1) material, shell fragment at 103 cm.

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S3-77-BS	8G1	1	4 cm	8			SDL

Sediment Name: Diatom Ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
TR	Clay		
	COMPOSITION		
TR	Quartz		
TR	Feldspar		
	Mica		
TR	Heavy Mnls.		
	Total Detrital		
TR	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
D	Diatoms		
R	Radiolarians		
TR	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
S3-77-BS	8G1	1	26 cm	8			SDL

Sediment Name: Diatom Ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
	Sand		
	Silt		
	Clay		
	COMPOSITION		
TR	Quartz		
TR	Feldspar		
	Mica		
TR	Heavy Mnls.		
	Total Detrital		
TR	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
TR	Foraminifera		
	Calc. Nannos		
D	Diatoms		
TR	Radiolarians		
TR	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
S3-77-BS	8G1	1	105 cm	8			SDL

Sediment Name: Diatom-Bearing Silt

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

PER-CENT	DETAILED MINERALOGY

REMARKS:

Zircon, Hypersthene

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
S3-77-BS	8G1	1	123 cm	8	X		SDL

Sediment Name: Clayey Silt

ABUNDANCE	TEXTURE	SPECIFIC DATA		
	Sand			
D	Silt			
C	Clay			
	COMPOSITION			
A	Quartz			
A	Feldspar			
	Mica			
C	Heavy Mnls.			
	Total Detrital			
	Clay Mnls.			
	Volc. Glass			
	Palagonite			
	Chlorite			
	Glauconite			
	Pyrite			
TR	Micro Nodules			
	Dolo. Rhombs			
	Zeolite			
	Auth. Carb.			
	Rock Frags.			
	Foraminifera			
	Calc. Nannos			
R	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
S3-77-BS	8G1	1	149 cm	8	X		SDL

Sediment Name: Silty Diatom Ooze

ABUNDANCE	TEXTURE		SPECIFIC DATA
	Sand		
C	Silt		
C	Clay		
	COMPOSITION		
C	Quartz		
C	Feldspar		Plagioclase
	Mica		
C	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
TR	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
A	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: S3-77-BS

SAMPLE NO: 8G2

STATION NO: 8

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	0-1 cm	Bob Arnal	USGS	Forams	6/30/77
1	1-91 cm	Keith Kvenvolden	USGS	Gas Analysis	6/30/77

NEBCO

USGS STATION LOG

SHIP / LEG S3-77-BS

LATITUDE 59° 54.16' N

LONGITUDE -176° 50.95' W

STATION NO. 9

LINE NO.

DAY/MONTH/YEAR

DATE 30/6/77

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Gravity Core 9G1	3572 m	129 cm		
Gravity Core 9G2	3570 m	145 cm		
Heat Flow Gauge	3572 m	Recovery		

REMARKS:

Gravity Core 9G1 - location: 59° 54.16' N, -176° 50.95' W

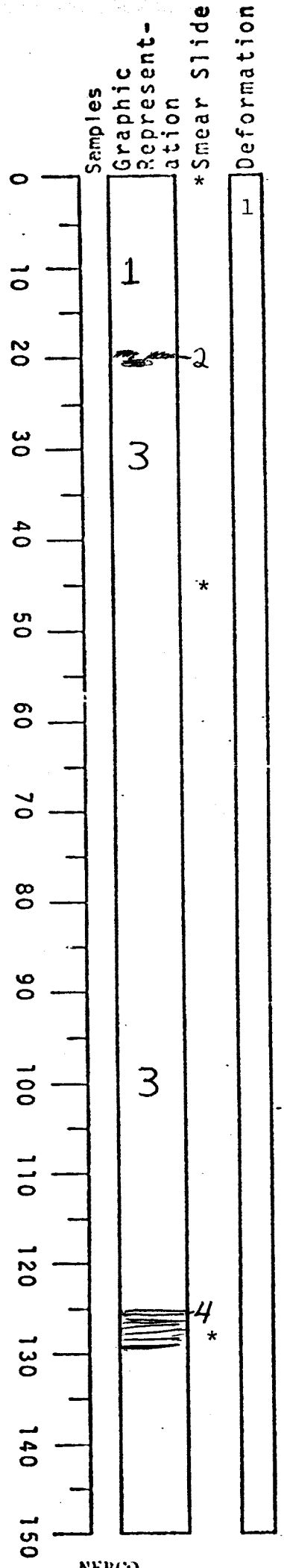
Gravity Core 9G2 - location: 59° 54.05' N, -176° 50.63' W, no sample description, core saved for gas analysis

Heat Flow Gauge - for specific data see Alan Cooper (USGS)

VISUAL CORE DESCRIPTION

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

STATION#				OBSERVER
			9	WD



#1, SILTY CLAY, 0-19 cm, color somewhere between grayish olive (10Y 4/2) and dusty yellow (5Y 6/4), color difficult to describe in terms of color chart color is basically grayish olive, with a yellowish "cast" to it - this is particularly well developed in upper 1 cm, appears to be a poorly developed oxidized surface layer (see description of other S3-77 "G" cores) SS @1 cm = DIATOM OOZE

#2, SILTY CLAY, 19-21 cm, burrow mottling (?) of darker material (greenish black, 5G 2/1) forming distinct horizon, no apparent size difference between unit #2 and either #1 or #3

#3, SILTY CLAY, 21-125 cm, some hint of burrow mottling, gradual, almost inperceptable color gradation from grayish olive (10Y 4/2) to dark greenish gray (5GY 4/1), SS @ 46 cm = DIATOM OOZE

#4, SANDY SILT, 125-129 cm, laminae and lenses of darker (greenish black, 5G 2/1) coarser material interlayered with dark greenish gray silty clay (unit #3) SS @ 128 cm = SAND-BEARING SILT

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
S3-77-BS	9G1	1	1 cm	9	X		AAB

Sediment Name: Diatom Ooze

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

PER-CENT	DETAILED MINERALOGY

REMARKS:

pyrite, hypersthene, epidote

DATA CODE LEGEND

Fossil preservation
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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
S3-77-BS	9G1	1	46 cm	9			AAB

Sediment Name: Diatom Ooze

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

PER-CENT	DETAILED MINERALOGY

REMARKS:

Epidote, Zircon, Hematite, Pyrite (infilling diatom tests)

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
S3-77-BS	9G1	1	128 cm	9		X	AAB

Sediment Name: Sand-Bearing Silt

ABUNDANCE	TEXTURE		SPECIFIC DATA
R	Sand		
C-A	Silt		
TR	Clay		
	COMPOSITION		
R	Quartz		
R	Feldspar		Plag., Albite
	Mica		
R	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
TR	Volc. Glass		
TR	Palagonite		
	Chlorite		
TR	Glauconite		1 Grain
TR	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
	Auth. Carb.		
	Rock Frags.		
	Foraminifera		
	Calc. Nannos		
C	Diatoms		
	Radiolarians		
	Sponge Spic.		
	Silicoflag.		
	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

Zircon, Pyrite, Epidote, Clinopyroxene, schist grains, Hypersthene, Hematite, Euhedral grains with anomalous blue birefringence - Chlorite (penninite) or lawsonite??

DATA CODE LEGEND

Fossil preservation
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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: S3-77-BS SAMPLE NO: 9G2

STATION NO: 9

SECTION	INTERVAL	NAME	ORGANIZATION	PURPOSE	DATE
1	0-145 cm	Keith Kvenvolden	USGS	Gas Analysis	6/30/77

NEBCO

USGS STATION LOG

SHIP / LEG S3-77-BS

LATITUDE 58° 14.59' N

LONGITUDE -179° 18.32' W

STATION NO. 10

LINE NO.

DAY/MONTH/YEAR

DATE 1/7/77

TYPE OF STORAGE (check one)

	X	
DRY	COLD	FROZEN

SAMPLE NO. TYPE & ID.	UNCORRECTED DEPTH (M)	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Gravity Core 10G1	3783 m	No Recovery		
Gravity Core 10G2	3783 m	No Recovery		
Gravity Core 10G3	3783 m	No Recovery		
Heat Flow Gauge	3783	Recovery		

REMARKS:

Heat Flow Gauge - some data recovered, see Alan Cooper for more information.