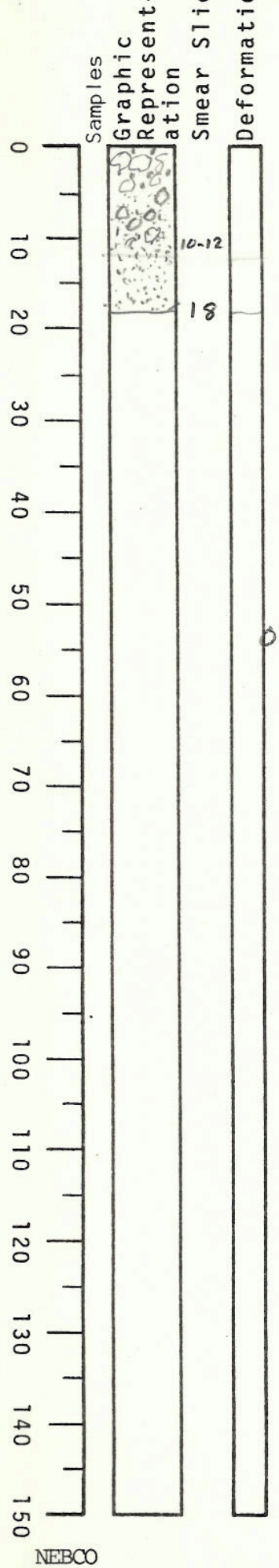
VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
SAMBOXS	001	

STATION#	OBSERVER
1	R



gravel lag w/ sandy beneath
(up to 10cm in dia) mud
fine sand on top, coars below

rock fragments and shell fragments

color: 5GY 3/1 or 5Y 4/1
(field obs) olive gray (lab obs)

sub sample taken (chemist)

0-10cm gas sample taken BOXS 001-S

water blank sample taken BOXS 001

one peel inserted and taken

frames 1-3 - Ralphs camera
(corrected: frames 2-4)

biology: sponges on rocks
hermit crabs
worms (polychaete)
worm tubes
wentle trap shell
gastropod
bivalves

bio specimens removed and placed in 5% formaldehyde

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
SAM BOXS	002	

STATION#	OBSERVER
002	R

surface - gravel lag bed (up to s
bioturbated thruout
muddy sand with gravel, shell debris scattered ~~throughout~~ in core.

Frames 7 & 8 Ralph's camera
(Corrected: 8 & 9)

hand sub sample taken (channel
peel taken

biology : bryozoan
crustacean
polychaete worm
pectens (dead)
tube worm
barnacles
brittle stars
pink tunicates

bio specimens removed and placed in 5% formaldahyde soln

VISUAL CORE DESCRIPTION S1-84-CS

LOCATOR	SAMPLE NO.	SEC.
SAM BOXS	003	

STATION#	OBSERVER
003	PB/SG

70. 42.5 N
160 38.3 W

1st attemp did not trip

2nd attemp

SAMPLE CONSISTS OF ~6cm mud (stiff & silty) underlying
~4cm sands/gravels at surface
coal fragments
small pebbles to 2cm coal frags.

Biology - barnacles on surface
hydrozoans

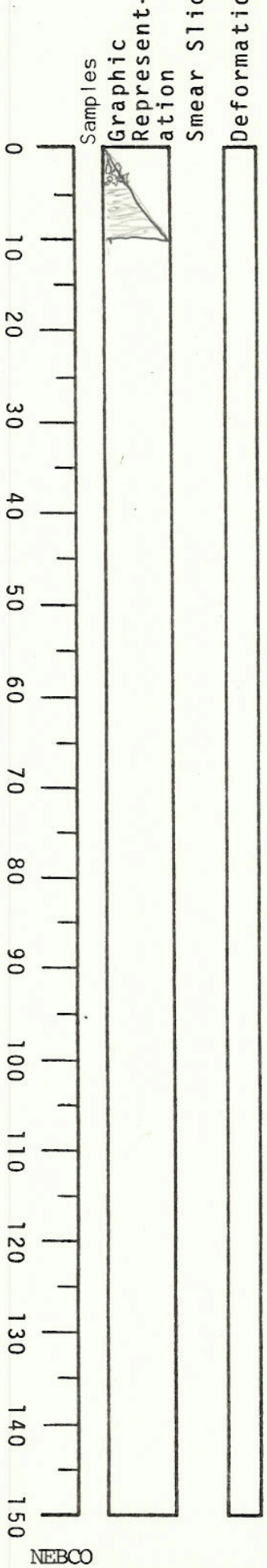
PHOTOS = FRAMES #9 & 10 RALPHS
(Corrected: 10 & 11)

PEEL TAKEN

HAND SAMPLE TAKEN (CHANNEL)

BIOLOGICAL SAMPLES REMOVED & PLACED IN 5% FORMALDEHYDE

Samples | Graphic Representation | Smear Slide | Deformation



NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S184CS	004	

STATION#	OBSERVER
004	

SAM BOXS

1st - 2224

1st attempt unsuccessful also 2nd, 3rd, 4th 5 attemp successful. 2238

P.B - MUD TO GRAVEL WITH BROKEN SHELL ON THE SURFACE.

SAMPLE ONLY AS GRAB SAMPLE i.e CHANNEL SAMPLE.

L.P. - MIXED SHELL, SAND, GRAVEL HASH. LOTS OF BARNACLES. LESS THAN 10 CM PENETRATION.

Water Hard

Samples	Graphic Representation	Smear Slide	Deformation

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

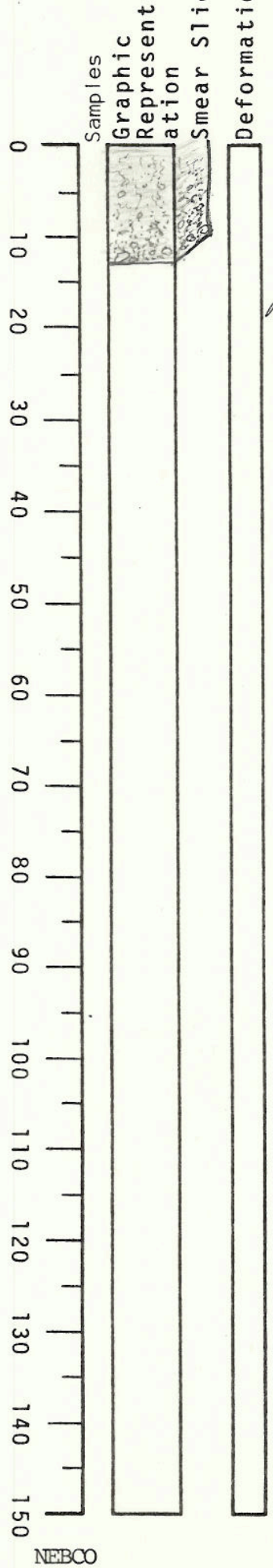
NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S2 84 CS	005	

SAM BOX S

STATION#	OBSERVER
005	



13 cm

MIXED GRAVELY MUD WITH MORE ~~MUD~~

GRAVEL AT BASE OF CORE

GRAVEL w/ shells & sand at base (lag)

(Pebbles) Gravels to 5 cm (diam) PEBBLES

SCATTERED THRU out

Surface muddy sand unconsolidated and soupy

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample # 005
Date: 246 Sept / Local
~~Location #~~
Core Length 13cm

LAT 70° 31.6
~~Location~~ 160 34.4
Depth 18.3
Time 0011

Procedure:

A) Photograph top of sediment and after side removed: _____
Roll ___ FRAMES _____

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated___, d) gravel or shell lag___, e) washed✓___.

2. Subsurface

   1. Sediment recovered thickness 13 cm.

   2. Texture - (check) sand✓___, gravel✓___, mud✓___, mixed✓___.

      - all sand gravel-shell lags depth____cm

      - bioturbated _____%

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 1 quanity

   1. orientation of trays - LONG DIRECTION

   2. number on trays 1, _____.

2. Tube samples: _____quanity

   1. NO gas sample: a) number_____, b) depth _____, _____, _____, c) gas sample H2O _____.

3. Engineering water samples NO

   1. surface _____ (bottle #)

   2. mid core-depth _____(bottle #) depth_____cm.

   3. bottom _____(bottle #), _____cm.

4. Channel sample length of core _____cm.

1. Other samples taken (sediment)

   - depth _____, _____, _____.
   - surface _____

5. Biological

   1. Live animals or plants.

      - type: segmented worm, hermit crab
      - abundance: _____
      - preserved: (check) yes___, no___,
      - formalin: (check) yes___, no___. If yes, sample container #_____, #_____, _____, _____.

   2. shells: (check) yes___, no___.

      - type:

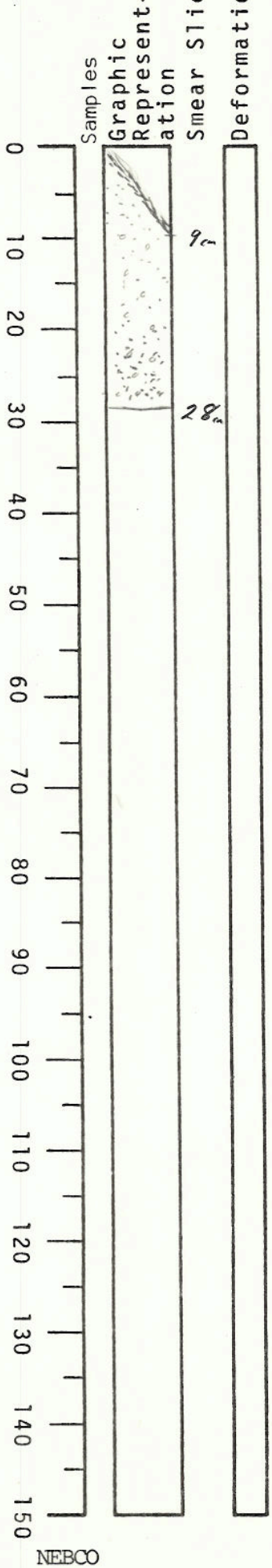
6. Washed sieved concentrate _____.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	006	

SAMBOXS - 006

STATION#	OBSERVER
006	R



sand mixed with shells (clean sand)
mud veneer on top
scattered pebbles (up to 2cm) thru-out
coal fragments
rock fragments
color:
granular size coarser towards the bottom

slab taken
2 channel sample

biology: unsegmented worm
brittle starfish
live clams
segmented worm

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample #__006___ Location_____
Date: 246___ Depth 37m
Location # 006____

Procedure:

A) Photograph top of sediment and after side removed: #13 Corrected: 14
Coarse fraction #14 Corrected: 15

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated ✓, d) gravel or shell lag___, e) washed___.

2. Subsurface

   1. Sediment recovered thickness 21-28 cm.

   2. Texture - (check) sand X, gravel___, mud___, mixed ✓.

      - all sand gravel-shell lags depth____cm

      - bioturbated _____%

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 1 quanity

   1. orientation of trays WIDE SIDE

   2. number on trays #006, _____.

2. Tube samples: _____quanity NO

   1. gas sample: a) number_____, b) depth _____, _____, _____, c) gas sample H2O _____.

3. Engineering water samples NO

   1. surface _____ (bottle #)

   2. mid core-depth _____(bottle #) depth_____cm.

   3. bottom _____(bottle #), _____cm.

4. Channel sample length of core 28 _____cm.

OVER

1. Other samples taken (sediment)

   - depth 0-25cm Second channel sample. _____, _____, _____.

   - surface _____

5. Biological

   1. Live animals or plants. yes

      - type: _____

      - abundance: _____

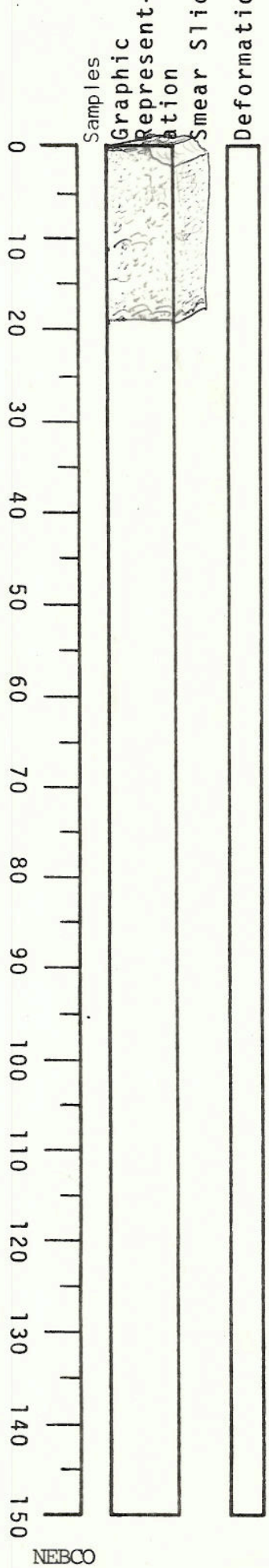
      - preserved: (check) yes ✓, no___,

      - formalin: (check) yes ✓, no___. If yes, sample container #_006_____, #_____, _____, _____.

   2. shells: (check) yes ✓, no___.

      - type:

6. Washed sieved concentrate yes >4mm.



VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
51-84-CS	007	

STATION#	OBSERVER
7	Phillips

207m.

CORE LENGTH 18 cm

SURFACE — MEDIUM - FINE SANDS OLIVE GRAY 5Y 4/1
NUMEROUS SMALL 1-2 cm SAND DOLLARS FLAT ON SURFACE
HOMOGENEOUS SANDS NO VISIBLE STRUCTURES
COARSE SHELLY LAG AT BASE MOSTLY (Pelecypods & Gastropods) all ? almost whole
SCATTERED SHELLS THROUGHOUT
Darker color (dark gray/black) toward bottom → (5Y 2/1 OLIVE BLACK)

BIOLOGY - SAND DOLLARS
PECTIN & BARNACLE FRAGS @ surface (few)
Shell lag - mostly whole & near whole pelecypods

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample #_007____ Location 70° 33.4 161 38.9
Date: 246__ Depth__287m____
Location #_____

Procedure:

A) Photograph top of sediment and after side removed: ✓ RALPH'S Frames 15-18

B) Description

1. Surface: (check one) a) flat✓, b) rippled___, c) bioturbated___, d) gravel or shell lag___, e) washed___.

2. Subsurface

   1. Sediment recovered thickness 18 cm.

   2. Texture - (check) sand✓, gravel✓, mud___, mixed___.

      - all sand gravel-shell lags depth ✓ cm 18cm @ base

      - bioturbated _____%

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 2 quanity

   1. orientation of trays NARROW SIDE, WIDE SIDE

   2. number on trays_____, _____.

2. Tube samples: 1 quanity

   1. gas sample: a) number 007, b) depth _____, _____, _____, c) gas sample H20 ✓ reference.

3. Engineering water samples

   1. surface _____ (bottle #)

   2. mid core-depth _____(bottle #) depth_____cm.

   3. bottom _____(bottle #), _____cm.

4. Channel sample length of core 18 cm.

1. Other samples taken (sediment)

   - depth _____, _____, _____.
   - surface _____

5. Biological

   1. Live animals or plants.

      - type: Echinderms (sand dollars) Polycheates
      - abundance: _____
      - preserved: (check) yes___, no___,
      - formalin: (check) yes___, no___. If yes, sample container #_007___, #_____, _____, _____.

   2. shells: (check) yes ✓, no___.

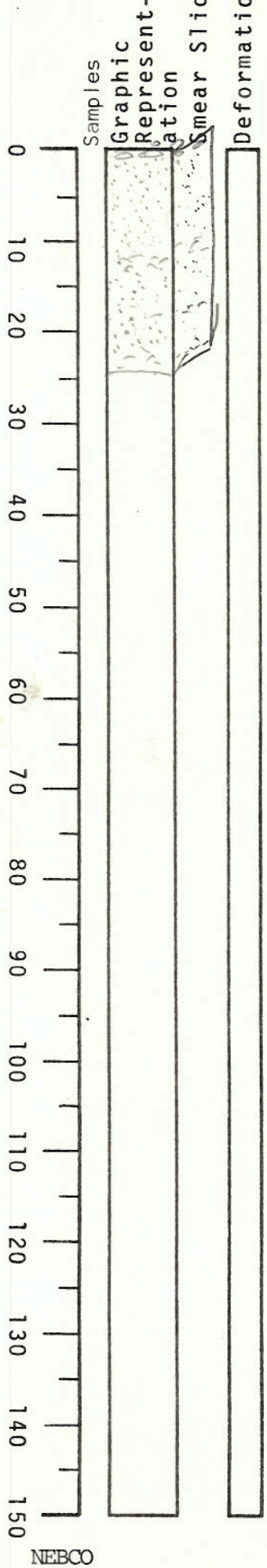
      - type: Pelecypods,

6. Washed sieved concentrate ✓.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-8A-CS	008	

STATION#	OBSERVER
008	



BOX CORE : 24 cm

SURFACE : STREWN W/ SMALL SAND DOLLARS & A BRITTLE STAR, GASTROPOD SHELL, SHRIMP

MEDIUM TO M. FINE SANDS
MASSIVE

SURFACE COLOR OLIVE GRAY 5Y 4/1
BOTTOM COLOR DARK OLIVE 5Y 2/1

GAS SAMPLE @ BOTTOM 10 cm
2 PEELS WIDE & NARROW SIDES
channel sample & foram sample

BIOLOGY : SURFACE : Sand dollars, shrimp, gastro-shell
1/2 way down : Shell lag, broken shells, discontinuous lag

013

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample # 008
Date: 2/6
Location # S1-89-CS

Location 70° 32.6' 161° 47.0'
Depth 24.6m

Procedure:

A) Photograph top of sediment and after side removed: 19-21 REH

B) Description

1. Surface: (check one) a) flat ✓, b) rippled___, c) bioturbated___, d) gravel or shell lag___, e) washed___.

2. Subsurface

   1. Sediment recovered thickness 24 cm.

   2. Texture - (check) sand ✓, gravel___, mud___, mixed___.

      - ✓ all sand ~~gravel~~-shell lags depth 12 cm

      - bioturbated _____%

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 2 quanity

   1. orientation of trays WIDE(B), NARROW(A)

   2. number on trays 008, _____.

2. Tube samples: _____ quanity

   1. gas sample: a) number 008, b) depth 10 cm @ bottom, 14-24 cm, _____, c) gas sample H2O _____.

3. Engineering water samples

   1. surface _____ (bottle #)

   2. mid core-depth _____ (bottle #) depth _____ cm.

   3. bottom _____ (bottle #), _____ cm.

4. Channel sample length of core 24 cm.

1. Other samples taken (sediment)

   - depth FORAM_____, _____, _____.

   - surface _____

5. Biological

   1. Live animals or plants.

      - type: Sand dollars, shrimp, gastro(shell) dead

      - abundance: _____

      - preserved: (check) yes___, no___,

      - formalin: (check) yes___, no___. If yes, sample container #_____, #_____, _____, _____.

   2. shells: (check) yes✓, no___.

      - type: pelecy. echin

6. Washed sieved concentrate ____✓_____.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1 - 8A - CS	009	

STATION#	OBSERVER
009	SMB

Samples | Graphic Representation | Smear Slide | Deformation

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

BOX CORE @ 39.2 m

BOX CORE LENGTH ~8 cm

GRAINSIZE MEDIUM TO FINE SANDS / GRAVELS (1-2 cm) SUB ANGULAR TO SUB ROUNDED

SURFACE COLOR OLIVE GRAY

BOTTOM COLOR —

TEXTURE SURFACE HAS LARGE ANGULAR COBBLE/BOULDERS (24 x 15 cm, 16 x 10 cm)

UNDERSIDES OF COBBLES IS DARK OLIVE GRAY (REDUCED)

PEBBLES = ANOMALOUS? RED GRANITES Qtz, Hbl, ksper

SAMPLE CAME UP LEAKING (BENT BOX CORE)

BIOLOGY = SURFACE = ECHINODERMS (BRITTLE STAR & SAND DOLLAR), BARNACLES ON GRAVELS, SHRIMP, GASTR

WORM TUBES?

BRYOZOANS, PECTIN.

PHOTO FRAME 23 R.H.

NEBCO

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample #_008_____ Location 70°39.5' 162°09.8'
Date: 24-6-2322 Depth___39.2 m___
Location #_S1-89-CS_

Procedure:

A) Photograph top of sediment and after side removed: ✓ FRAME 23 RH

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated___, d) gravel or shell lag ✓, e) washed___.

2. Subsurface

   1. Sediment recovered thickness ~8 cm.

   2. Texture - (check) sand___, gravel___, mud___, mixed ✓.

      ✓ all sand gravel-shell lags depth___cm

      - bioturbated _____%

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: — quanity

   1. orientation of trays

   2. number on trays — , _____.

2. Tube samples: _____quanity

   1. gas sample: a) number — _____, b) depth _____, _____, _____, c) gas sample H2O _____.

3. Engineering water samples

   1. surface _____ (bottle #)

   2. mid core-depth _____(bottle #) depth_____cm.

   3. bottom _____(bottle #), _____cm.

4. Channel sample length of core ✓ _____cm.

1. Other samples taken (sediment)

   - depth _Biological_____, _____, _____.

   - surface _____

5. Biological

   1. Live animals or plants.

      - type: __sand dollar, brittle star, gastropod, worms____

      - abundance: _____

      - preserved: (check) yes___, no___,

      - formalin: (check) yes___, no___. If yes, sample container #_____, #_____, _____, _____.

   2. shells: (check) yes___, no___.

      - type:

6. Washed sieved concentrate ___✓_____.

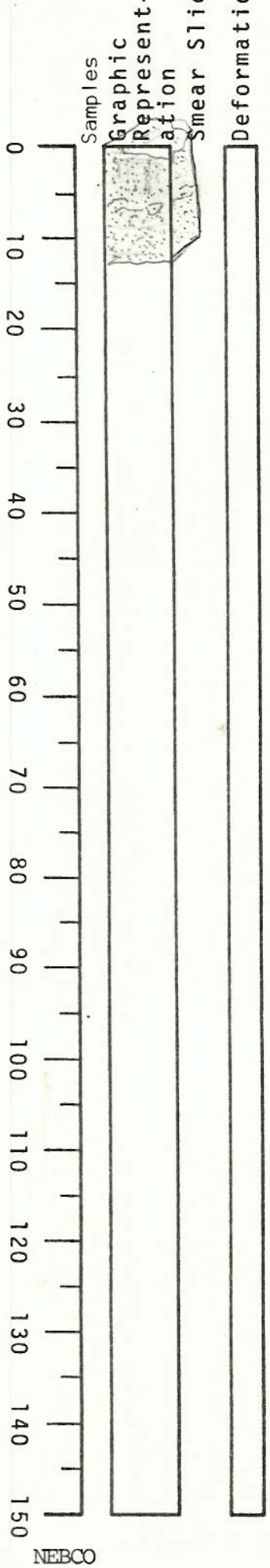
gravels = mixed lithology clastics
subangular to subrounded .5 - 2.5 cm clasts
red granite pebble?
2 large cobbles @ (24x15 & 16x10 cm) bottoms are dark.
showing reduction just beneath seafloor

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
	010	

STATION#	OBSERVER
010	

0032:30



BOX CORE @ 42.9 m

BOX CORE LENGTH 10-12 cm
PEEL, CHANNEL, FORAM SAMPLES TAKEN

SURFACE COLOR: OLIVE GRAY TO BROWNISH OLIVE GRAY AT TOP FEW C
5GY 4/1

TEXTURE/LITHOLOGY MEDIUM TO FINE SANDS (MUDDY)
FEW PEBBLES, MOSTLY MUDDY SANDS & SHELLS
MASSIVE SAND

STRUCTURES: LAG IN CENTER (CLAMS, SHELLS)
THIN & DISCONTINUOUS THROUGH SAMPLE

BIOLOGY: LOTS WORM TUBES, DISARTICULATED PELECYPODS
FEW LIVE CLAMS, POLYCHAETE,

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample # 010 Location 70° 46.3 162° 32.6'
Date: 246 Depth 42.9m
Location #_____

Procedure:

A) Photograph top of sediment and after side removed:_____

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated___, d) gravel or shell lag___, e) washed___. ?

2. Subsurface

   1. Sediment recovered thickness _____cm.

   2. Texture - (check) sand ✓, gravel___, mud ✓, mixed ✓.

      - all sand ~~gravel~~-shell lags depth ~6 cm

      - bioturbated _____%

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 1 quanity

   1. orientation of trays WIDE

   2. number on trays 010, _____.

2. Tube samples: _____quanity

   1. gas sample: a) number_____, b) depth _____, _____, _____, c) gas sample H2O _____.

3. Engineering water samples

   1. surface _____ (bottle #)

   2. mid core-depth _____(bottle #) depth_____cm.

   3. bottom _____(bottle #), _____cm.

4. Channel sample length of core ✓ cm.

1. Other samples taken (sediment)

   - depth _____, _____, _____.
   - surface _____

5. Biological

   1. Live animals or plants.

      - type:_____
      - abundance:_____
      - preserved: (check) yes___, no___,
      - formalin:(check) yes___, no___. If yes, sample container #_____, #_____, _____, _____.

   2. shells: (check) yes___, no___.

      - type:

6. Washed sieved concentrate _____.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	011	

STATION#	OBSERVER
011	

70° 53.0' N
162° 51.7' W

0143,30 hrs

Samples | Graphic Representation | Smear Slide | Deformation

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NEBCO

Water depth 42.5
Core length 30.0

Color

surface core soft mud w/5 brittle stars - large to 1 cm burrow openings - shell on surface, concave down.

10 cm X 2cm worm at very bottom of core

- upper 10 cm soft sandy mud

Remainder of core is bioturbated stiff mud with sand pockets (in burrows). Bioturbation is very pronounced

Top of core is soupy and flowed on handling — thus - no structures will mean anything

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample #__011____ Location_____
Date: 247___ Depth___42.5_____
Location #_____

Procedure:

A) Photograph top of sediment and after side removed:_____

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated___, d) gravel or shell lag___, e) washed___.

2. Subsurface

   1. Sediment recovered thickness _30__cm.

   2. Texture - (check) sand✓, gravel___, mud✓, mixed___. minor gravel

      - all sand gravel-shell lags depth____cm

      - bioturbated _____%

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: __1____quanity

   1. orientation of trays WIDE DIMENSION

   2. number on trays_1_____, _____.

2. Tube samples: _____quanity

   1. gas sample: a) number___2_____, b) depth 0-10cm___, 20-30 cm___, _____, c) gas sample H2O __NO_____.

3. Engineering water samples NO

   1. surface _____ (bottle #)

   2. mid core-depth _____(bottle #) depth_____cm.

   3. bottom _____(bottle #), _____cm.

4. Channel sample length of core _____cm.

OVER

1. Other samples taken (sediment)

   0 - 30 depth CHANNEL, FORAM, _____.

   - surface _____

5. Biological

   1. Live animals or plants.

      - type: _____

      - abundance: _____

      - preserved: (check) yes ✓, no___,

      - formalin: (check) yes ✓, no___. If yes, sample container #011, #_____, _____, _____.

   2. shells: (check) yes ✓, no___.

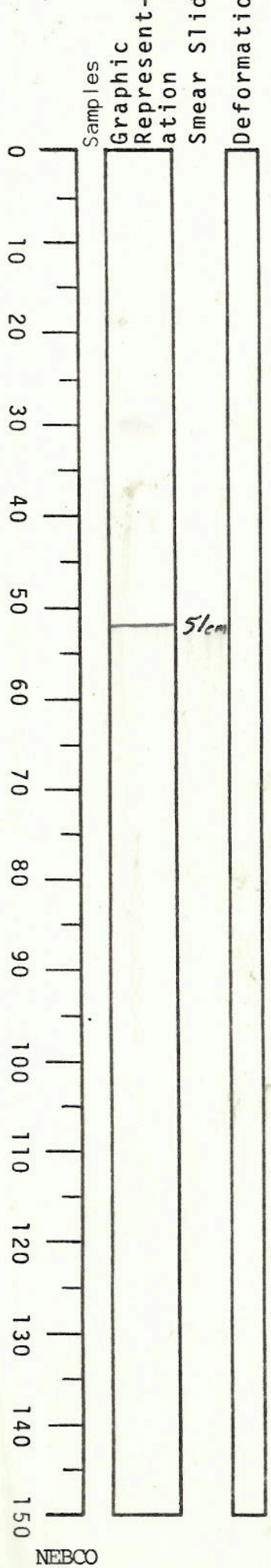
      - type:

6. Washed sieved concentrate yes.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	0012	

STATION#	OBSERVER
0012	TR



water content samples
BS-305 - surface
BS 895 25 cm from top
BS 619 Bottom

engineering core - ~~not~~ entire b.c. length
compaction measurement
4cm surface → surface

black
organic rich fill in burrows

peel take entire length

bioturbated entire length

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample #_0012_ Location_____
Date:_____ Depth_____
Location #_0012_

Procedure:

A) Photograph top of sediment and after side removed: _yes_

B) Description

1. Surface: (check one) a) flat_✓_, b) rippled_no_, c) bioturbated_X_, d) gravel or shell lag_no_, e) washed_no_.

2. Subsurface

   1. Sediment recovered thickness _51_ cm.

   2. Texture - (check) sand___, gravel___, mud_X_, mixed___.

      - all sand gravel-shell lags depth____cm

      - bioturbated _100_ %

      - biological mats (tube worms, ect.) no

C) Samples

1. slabtrays: _1_ quanity

   1. orientation of trays

   2. number on trays_012_, _____.

2. Tube samples: _1_ quanity for engineering

   1. gas sample: a) number_2_, b) depth _0-10cm_, _41-51cm_, _____, c) gas sample H2O _yes_.

3. Engineering water samples

   1. surface _BS 305_ (bottle #)

   2. mid core-depth _BS895_ (bottle #) depth_25_ cm. from top

   3. bottom _BS 619_ (bottle #), _50_ cm.

4. Channel sample length of core _51_ cm.

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample #012 Location_____
Date:_____ Depth_____
Location #_____

Procedure:

A) Photograph top of sediment and after side removed:_____

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated___, d) gravel or shell lag___, e) washed___.

2. Subsurface

   1. Sediment recovered thickness _____cm.

   2. Texture - (check) sand___, gravel___, mud___, mixed___.

      - all sand gravel-shell lags depth____cm

      - bioturbated _____%

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays:_____quanity

   1. orientation of trays

   2. number on trays_____, _____.

2. Tube samples:_____quanity

   1. gas sample: a) number_____, b) depth _____, _____, _____, c) gas sample H2O _____.

3. Engineering water samples

   1. surface _____ (bottle #)

   2. mid core-depth _____(bottle #) depth_____cm.

   3. bottom _____(bottle #), _____cm.

4. Channel sample length of core _____cm.

1. Other samples taken (sediment) (2) paleo top 10 cm bot 10 cm

   - depth _____, _____, _____.

   - surface _____

5. Biological

   1. Live animals or plants.

      - type: worms

      - abundance: rare

      - preserved: (check) yes X, no___,

      - formalin: (check) yes X, no___. If yes, sample container #_____, #_____, _____, _____.

   2. shells: (check) yes X, no___.

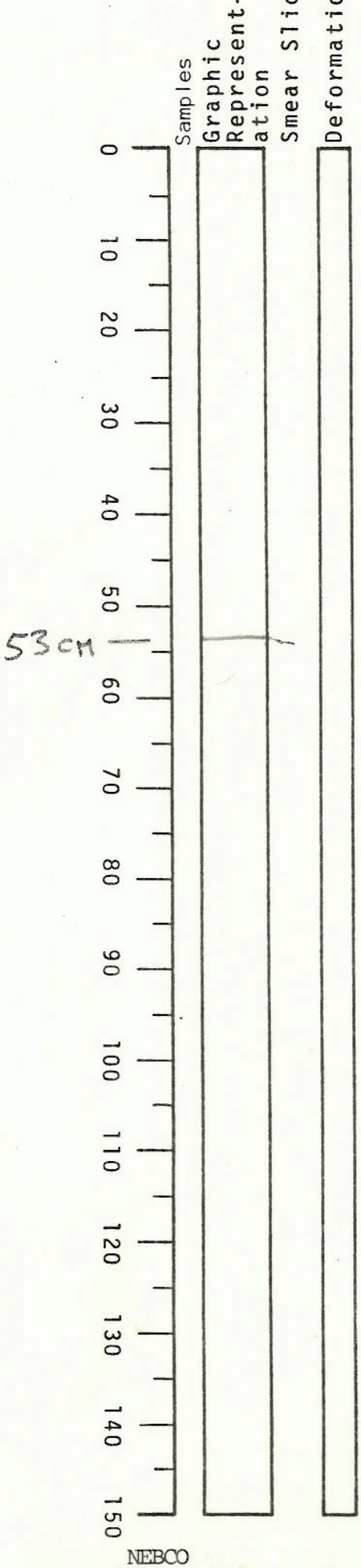
      - type: pelecypods

6. Washed sieved concentrate yes/_____.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S184C5	013	

STATION#	OBSERVER
013	



Engineering H_2O samples
#F308 · surface
B5684 middepth 25 cm
B5625 Bottom 53 cm.

(Engr) 7.5 cm compaction
↳ 1.5 cm from bottom for core (stopped sh
H_2O sample 25 cm from top (1)
@ bottom (2)

burrows w/ oxidized linings (yell. orange)

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	014	

STATION#	OBSERVER
014	Phillips

44.8
35
11.8

Samples | Graphic Representation | Smear Slide | Deformation

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

48 cm total length
First 6 cm are soft

F279 water sample top
F285 water sample Bottom
BF761 water sample 25 cm from top
Plastic pipe core (engineering)
compacted 11.8 cm.
Peel sample slab taken
gas sample top -0-10 cm
" " bottom -30-48 cm
Foram sample - top 10 cm
" " Bottom 10 cm
small bottle biological (worms)
1 sample bag washed gravel.
2 samples channel (bags)

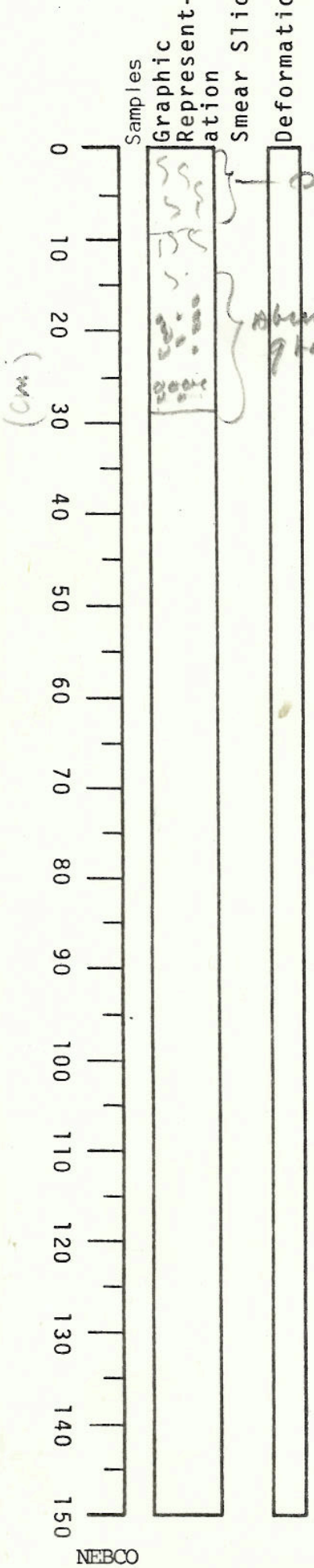
surface (upper 10-12 cm) soft flowing mud - rest of core bioturbated with scattered pebbles
compact mud throughout 35 cm of core - very hard.
black vertical + horizontal (reduced zones) in burrows. pebbles small (black) ~~near lower 10 cm~~ scattered throughout core
soft flowing mud at top of core not saved in slab sample.

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	015	

STATION#	OBSERVER
015	



water depth: 44.4

Core length: 28 cm 35

Color: —

D347: water sample (surface)

Engineering Core: 015

gas sample: 015 Top – 0-10cm

gas sample: 015 bottom – 10-28cm

BS790: water sample (Bottom)

2 channel samples

2 bags - gravel (sa

1 biological sample.

1 Foram sample Top 10 cm soft mud.

1 slab tray

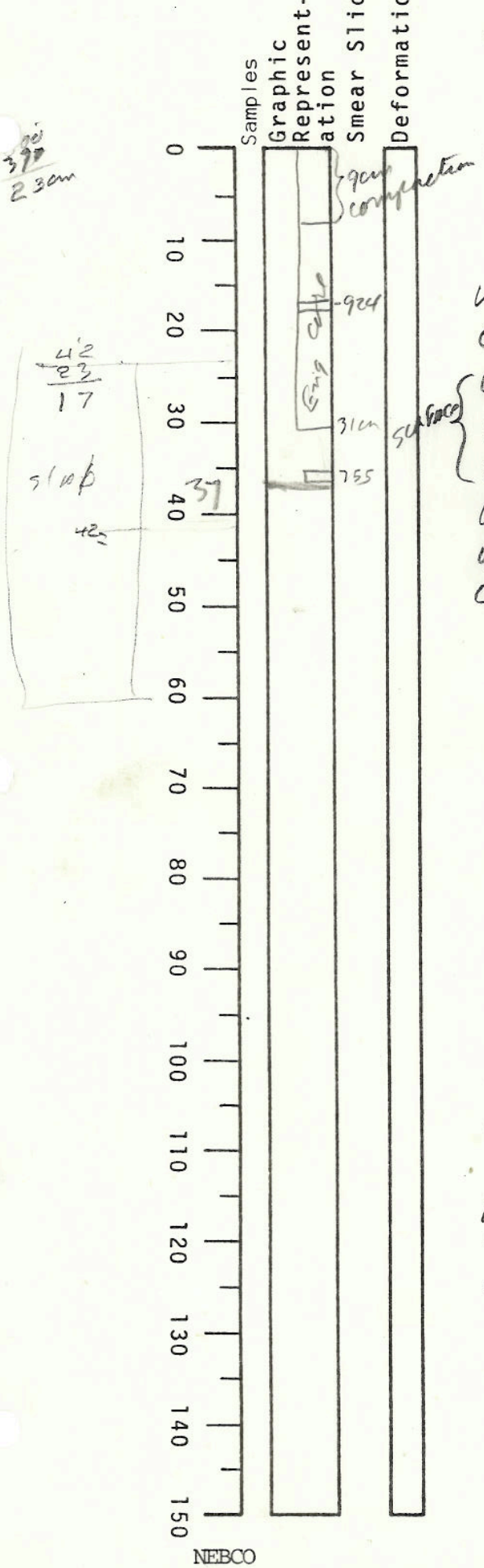
Mud with abundant gravel - soft flowing mud top 5 cm not saved. - gravel - to 1 cm to cro sand, granules. - gravel concentrated in cm to >1 cm thick beds - as well as in vertical burrows - gr also scattered in hard mud - (most near base or bottom 10-15 cm of core. core intensely bioturbated.

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-8A-CS	016	

STATION#	OBSERVER
016	



water depth 49.5
core length 37 cm
water sample BS-782
GAS sample - 0-10cm
Engineering core - to 6cm from bottom
cm compacted 9cm
water sample - mid - BS 924
water sample bottom BS 755
GAS sample Bottom - 58cm from top of box - 25-35cm
42cm from top of box
58cm from top
17cm from top of core

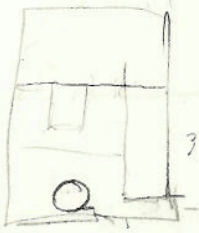
Foram sample { top 10cm, bottom 10cm

BOTTOM GAS SAMPLE MAY HAVE BEEN TAKE HORIZONTALLY P.B 9/10/84

few scattered black < 1 cm pebbles

few worms
bioturbated

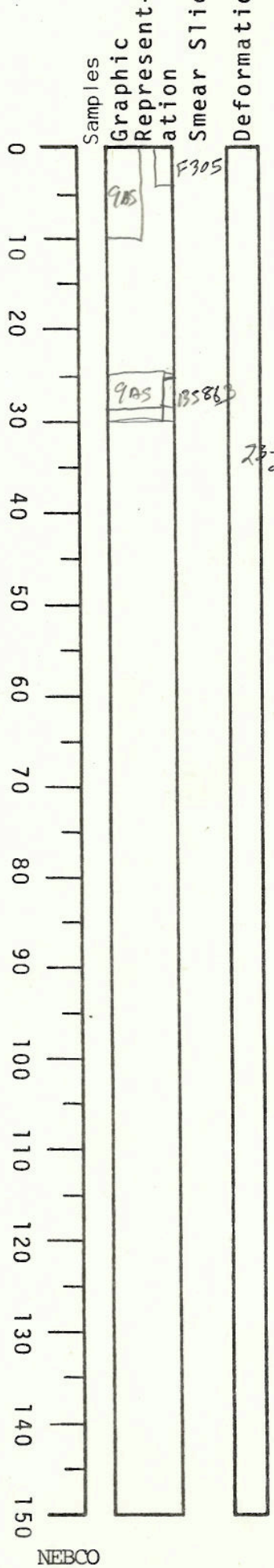
core - bioturbated mud - soft mud tops of core - gradation to underlying compact mud
pebbles scattered (most black) in core - worm tubes w/ thick lining - vertical oriented
color - dark greenish gray 5 G 4/1



VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	017	

STATION#	OBSERVER
017	



water depth 43.2 cm
core length 30 cm

water sample surface. F305
Gas sample surface
23-29 cm) BOTTOM GAS SAMPLE TAKEN HORIZONTALLY? P.B. 9/10/84
Engineering core
compaction 6 cm
~~water sample mud BS 850~~ no taken
water sample bottom BS 863

Foram sample from
Bottom 10 cm

Color - olive gray 5Y 3/2.

surface - soft light brown mud with granules - small pepples scattered.
core grades from soft mud downward to compact mud - pebbles/granules scattered throughout core - variable composition of pebbles. Friable - cohesive sticky - with some sand.
Most core intensely bioturbated with reduced zones in burrows - low faunal content 2 worms, 1 crustacean.

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1 84 CS	018	

STATION#	OBSERVER
018	P.B. LP.

Samples | Graphic Representation | Smear Slide | Deformation

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

Depth 39.2 m

~~water sample surface F298~~

~~Gas sample surface.~~

~~Pipe core - engineering~~

~~depth compaction~~ ___ cm

~~slab tray~~

Foram sample. upper 10 cm

~~water sample - mid core - depth~~ (BS 742) ___ c

~~water sample - bottom (F306) depth~~ ___ c

~~Gas sample bottom~~

~~Foram sample bottom 10 cm~~

1 channel samples.

Sample on outcrop?

Ripped off large Barnacle

BIOLOGICALLY RICH SEDIMENTS MAINLY

BARNACLE SHELLS

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	019	

STATION#	OBSERVER
019	

Box Core

Samples | Graphic Representation | Smear Slic | Deformatio

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

JD 249 2322

N70° 58.5 } Location
W 159° 22.3 }
Depth ~ 52.2m

No Recovery

HARD BOTTOM

- (1) 4cm Rock TWO SPONGES CHITONS. a sprinkling of sand.
- suspect OUTCROP

NEBCO

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	020	

STATION#	OBSERVER
020	

Z 49.4 M

250JD 0039 GMT

Samples | Graphic Representation | Smear Slide | Deformation

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

BOX CORE

CORE SHOWS OBLIQUE CUT (?) TO SURFACE

~6-8 cm of mixed gravel, shell lag, sands

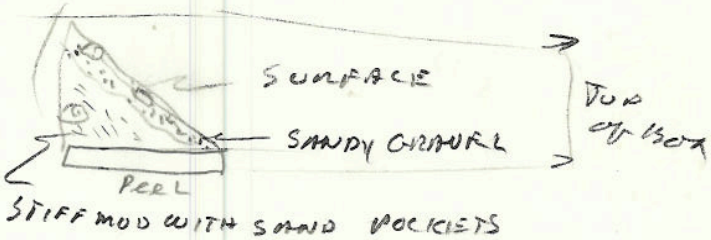
~5-6 cm muds (stiff)

surface color is dark olive brown

immediately underneath is gray/black (reduced)

muds are light gray

gravels show very mixed lithology



NEBCO

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample #__020___ Location 70° 57.6' 159° 25.6'
Date: 250 Depth 92.5 m
Location #_____

Procedure:

A) Photograph top of sediment and after side removed: ✓

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated___, d) gravel or shell lag ✓, e) washed___.

2. Subsurface

   1. Sediment recovered thickness 16 cm.

   2. Texture - (check) sand___, gravel___, mud___, mixed ✓.

      - all sand gravel-shell lags depth ✓ cm

      - bioturbated _____%

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 1 quanity

   1. orientation of trays WIPE

   2. number on trays 020, _____.

2. Tube samples: _____ quanity

   1. gas sample: a) number _____, b) depth _____, _____, _____, c) gas sample H20 _____.

3. Engineering water samples

   1. surface _____ (bottle #)

   2. mid core-depth _____ (bottle #) depth _____ cm.

   3. bottom _____ (bottle #), _____ cm.

4. Channel sample length of core 16 cm.

1. Other samples taken (sediment)

   - depth FOAM TOP, (2) FOAM BOTTOM, _____.

   - surface _____

5. Biological

   1. Live animals or plants.

      - type: chitons, beachs, worms, clams, brittle star, brqoz, barn

      - abundance: _____

      - preserved: (check) yes___, no___,

      - formalin: (check) yes ✓, no___. If yes, sample container #020, #_____, _____, _____.

   2. shells: (check) yes ✓, no___.

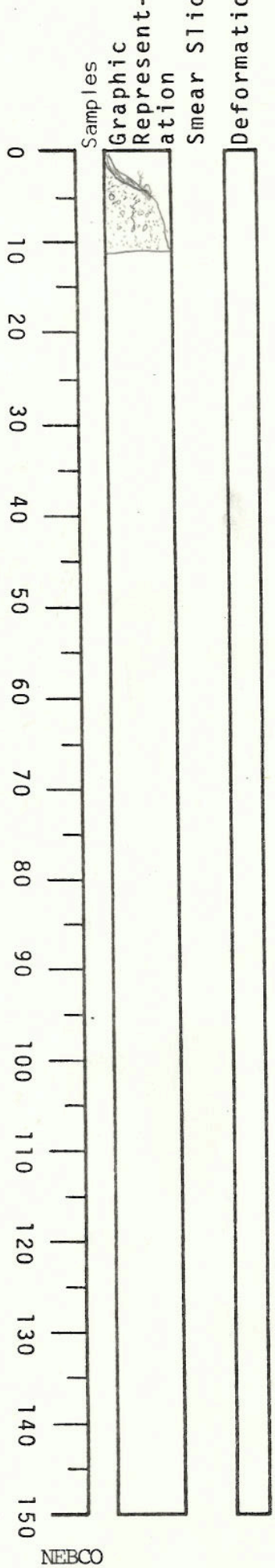
      - type:

6. Washed sieved concentrate ✓_____.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	021	

STATION#	OBSERVER
021	



depth 47.5

length core 11 cm

Stab tray (yes)

~~Top gas sample~~ no

~~water sample BS642 Top~~ - no

~~" " F301 mid~~ ~~11~~ cm from top

~~" " BS830 Bot~~ — cm

~~Pipe core~~ no

compaction — cm

~~gas sample bottom~~ no

Foram sample top ~~10~~ 5 cm (yes)

Foram sample Bottom ~~10~~ 5 cm (yes)

2 channel samples

1 washed shells

1 biology

thin < 1-2 mm layer of mud - rest of core sand with few pebbles at base. worm tubes (sand) with pink polychaete in - wht/with bcn pelagpod few pebbles - wht to cream light green.

NEBCO

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample #_021_____ Location_71°01.2' 161°21.8'
Date: _250_____ Depth_____
Location #_____

Procedure:

A) Photograph top of sediment and after side removed: __✓___

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated___, d) gravel or shell lag___, e) washed___.

2. Subsurface

   1. Sediment recovered thickness __11___cm.

   2. Texture - (check) sand___, gravel___, mud___, mixed_✓__.

      - all sand gravel-shell lags depth____cm

      - bioturbated _____%

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: __1____quanity

   1. orientation of trays

   2. number on trays_021_____, _____.

2. Tube samples: _____quanity

   1. gas sample: a) number_____, b) depth _____, _____, _____, c) gas sample H20 _____.

3. Engineering water samples

   1. surface _____ (bottle #)

   2. mid core-depth _____(bottle #) depth_____cm.

   3. bottom _____(bottle #), _____cm.

4. Channel sample length of core ____11_____cm.

1. Other samples taken (sediment)

   - depth Foram top 5cm, Foram bottom 5cm _____.

   - surface _____

5. Biological

   1. Live animals or plants.

      - type: worm tubes, pelecypod

      - abundance: _____

      - preserved: (check) yes___, no___,

      - formalin: (check) yes✓, no___. If yes, sample container #021___, #_____, _____, _____.

   2. shells: (check) yes✓, no___.

      - type:

6. Washed sieved concentrate ✓_____.

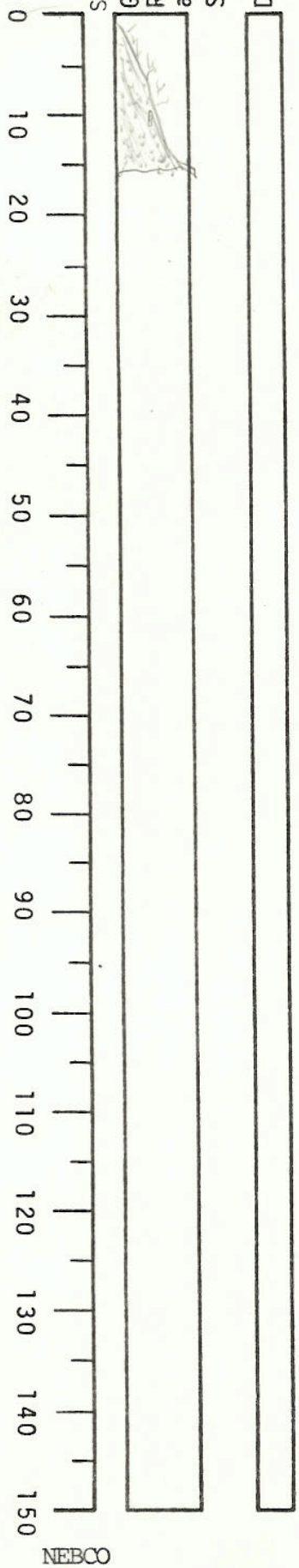
VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
5 1 8 4 C 5	0 2 2	

STATION#	OBSERVER
0 2 2	

BOX CORE #22

Samples | Graphic Representation | Smear Slide | Deformation



NEBCO

Location: 70° 53.0'
~~Dep~~ 161° 45.9'
Depth: 42.1m
Length: 15cm

LIGHT OLIVE GRAY SURFACE
OLIVE GRAY INSIDE
SANDY MUD
SOME GRANULAR AREAS = COARSE SANDS

SURFACE 3cm OXIDIZED SOMEWHAT MUDDY SAND & GRAVEL - LOTS OF ORGANISMS (A PELECYPOD IN PEEL). BOTTOM 17cm MUDDY SAND WITH PEBBLES TO 5cm. NO OBVIOUS STRUCTURES. NOT OVERCONSOLIDATED

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1 - 84 - CS	23A	

STATION#	OBSERVER
023	

Samples	Graphic Representation	Smear Slide	Deformation
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150			

NEBCO

channel Sample

Foram Sample

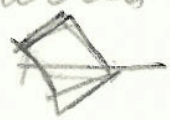
Core length - 7.5 cm

CLEAN STRUCTURELESS MED SAND,

with mud in some form (layer or patches)

SLAB A & B ON SAME TRAY

washed - some few black pebbles at base of core. sand well sorted - clay possible layer (bed) but tilted when cored at angle



VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	23B	

STATION#	OBSERVER
023	

Samples | Graphic Representation | Smear Slide | Deformation

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

Channel Sample.
Foram Sample
Core length - 9.5 cm

Sand, clean, apparently structureless

CORE GRANULE LAYER 4 cm FROM SURFACE

WIERD SHRIMP LIKE CRUSTACEAN AT BOTTOM OF CORE. 1.5 cm long big eyes [illegible] spines?

SLAB A & B ON 1 TRAY

few black pebbles - small.
sand dollars - small &
dentalium (shells) -
clams - large white:

NEBCO

VISUAL CORE DESCRIPTION

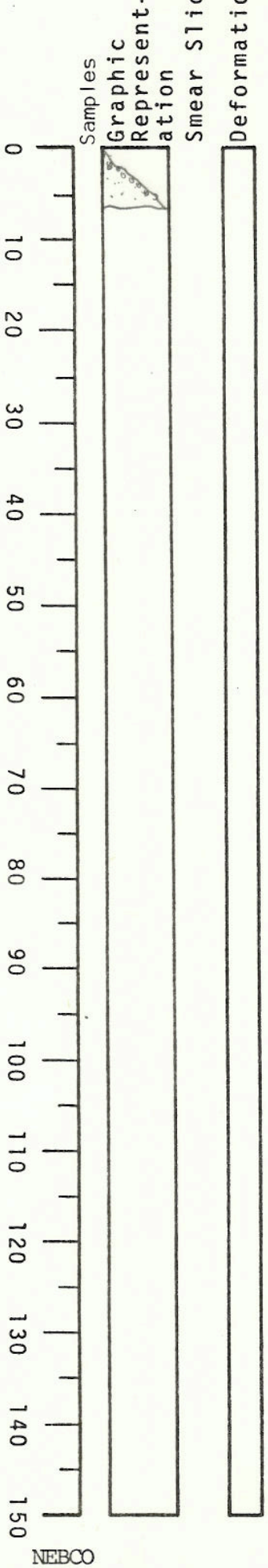
LOCATOR	SAMPLE NO.	SEC.
	23C	

STATION#	OBSERVER

Samples | Graphic Representation | Smear Slide | Deformation

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NEBCO



no slab

Channel Sample - ~~two~~ one } both as channel
Form Sample one

Core length - 7,8 cm - washed.

abundant gravel - sand with dentilium - pelcypods (alive), sand dollars and shell debris - few small pink crustaceans. - medium- to cro-grained sand - / granules (some)

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
51-84-C5	024	

STATION#	OBSERVER
024	

Samples	Graphic Representation	Smear Slide	Deformation
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150			

NEBCO

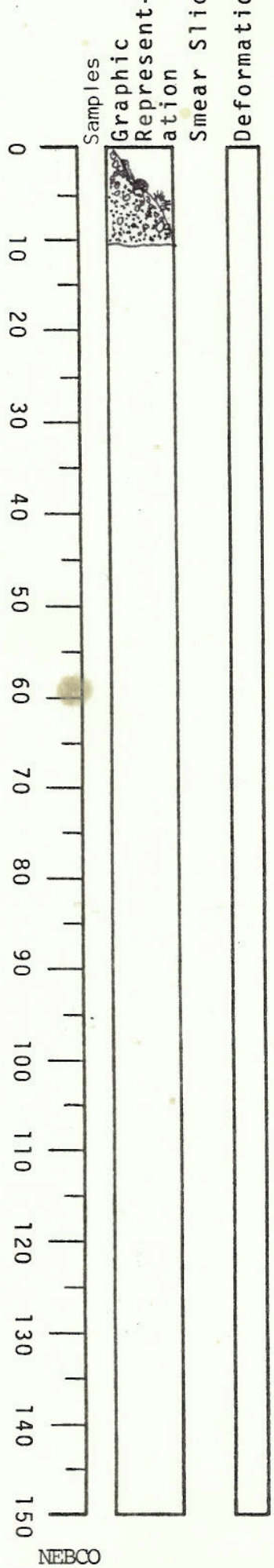
core thickness 8.5 cm
slab tray — ✓
1) channel sample
1) foram sample

SANDY SURFACE WITH COBBLE LAG.
UNDERLAIN BY PEBBLE/SHELL SAND HASH.
ABUNDANT CRITTERS — ON SURFACE.
20×15cm COBBLE ON SURFACE

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1 - 84 - CS		

STATION#	OBSERVER
025	



BOX CORE @ 40.2 m

Peel = 11 cm
channel
foram

Texture gravels at surface w/ shell frags
coarse sands beneath
pebbles & cobbles at surface are of various lithologies
Shelly portion is almost exclusively fragmented

Biology - ~~[illegible]~~ urchin
echinoderms
sponge
barnacles
clams
brachiopods
worms

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample # 025 Location 70° 45.6' 160° 19.9'
Date: 253 2332 Depth 40.2
Location #_____

Procedure:

A) Photograph top of sediment and after side removed: ✓

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated___, d) gravel or shell lag ✓, e) washed___.

2. Subsurface

1. Sediment recovered thickness 11 cm.

2. Texture - (check) sand___, gravel___, mud___, mixed ✓.

- all sand gravel-shell lags depth ✓ cm

- bioturbated _____%

- biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 1 quanity

1. orientation of trays side

2. number on trays 025, _____.

2. Tube samples: — quanity

1. gas sample: a) number_____, b) depth _____, _____, _____, c) gas sample H2O _____.

3. Engineering water samples

1. surface _____ (bottle #)

2. mid core-depth _____(bottle #) depth_____cm.

3. bottom _____(bottle #), _____cm.

4. Channel sample length of core 11 cm.

1. Other samples taken (sediment)

   - depth _____, _____, _____.

   - surface _____

5. Biological

   1. Live animals or plants.

      - type:_____

      - abundance:_____

      - preserved: (check) yes___, no___,

      - formalin:(check) yes___, no___. If yes, sample container #_____, #_____, _____, _____.

   2. shells: (check) yes___, no___.

      - type:

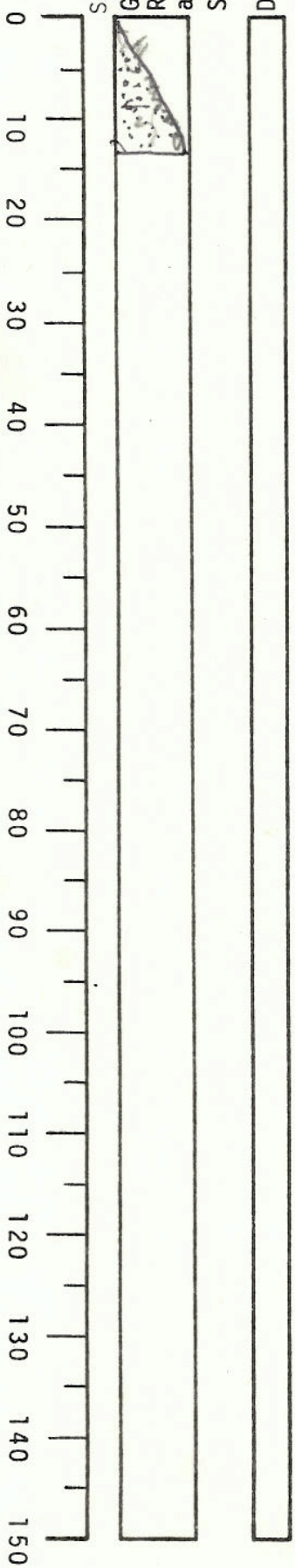
6. Washed sieved concentrate _____.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1 - 84 - CS	026	

STATION#	OBSERVER
026	

Samples | Graphic Representation | Smear Slide | Deformation



Box CORE 13 cm

Ped Sample - 13 cm

Channel Sample

Foram Sample

Core Length - ~~47cm~~ 13 cm

Depth = 29.3 m

shell/pebble lag dispersed in coarse/medium sands

shell lag ~ 2 cm from top with coal chips, discontinuous and clast size is ~ 4-6 mm

biology = worms
sand dollars (dimes)
clams (long thin)
⋮

NEBCO

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample # 26 Location 70° 42.7' 160° 16.2'
Date: 9-9-84 Depth 29.3 m
Location #_____

Procedure:

A) Photograph top of sediment and after side removed: ✓

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated___, d) gravel or shell lag ✓, e) washed___.

2. Subsurface

1. Sediment recovered thickness 13 cm.

2. Texture - (check) sand___, gravel___, mud___, mixed ✓.

- all sand gravel-shell lags depth ✓ cm

- bioturbated _____%

- biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 1 quanity

1. orientation of trays side

2. number on trays 026, _____.

2. Tube samples: _____quanity

1. gas sample: a) number_____, b) depth _____, _____, _____, c) gas sample H20 _____.

3. Engineering water samples

1. surface _____ (bottle #)

2. mid core-depth _____(bottle #) depth_____cm.

3. bottom _____(bottle #), _____cm.

4. Channel sample length of core 13 cm.

1. Other samples taken (sediment)

   - depth foram _____, bio _____, coarse _____.

   - surface _____

5. Biological

   1. Live animals or plants.

      - type: _____

      - abundance: _____

      - preserved: (check) yes___, no___,

      - formalin: (check) yes___, no___. If yes, sample container #_____, #_____, _____, _____.

   2. shells: (check) yes_✓_, no___.

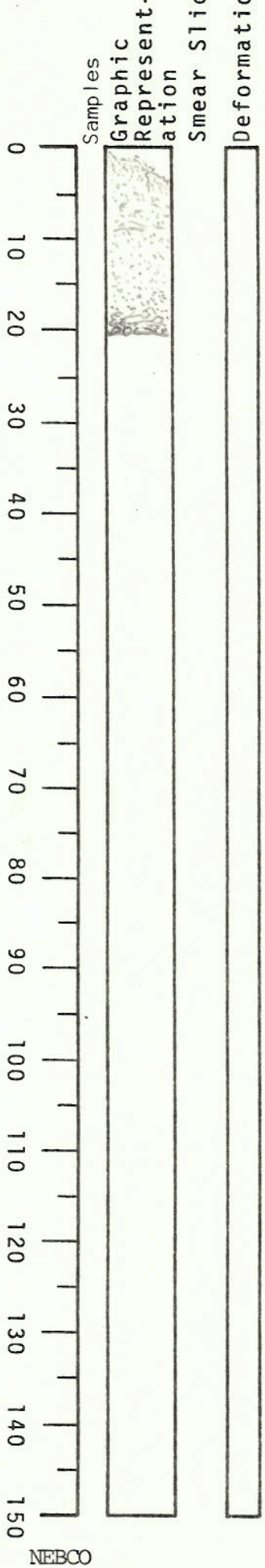
      - type:

6. Washed sieved concentrate _____✓_____.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1 - 84 - CS	029	

STATION#	OBSERVER
029	Phillips



Box core @ 40.3m
20cm core

Light olive gray sand = surface = finer silty sands
olive gray inside = medium to coarse grained
Bioturbated upper surface to at least 10cm ?
Gravels start at 13 cm
Gravel shell lag at bottom is flat lying
some scattered shells

Biology = mostly crustaceans
often <2mm

peel
channel
foram } samples
bio
coarse

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample # 029 Location 70° 40.75' 161° 16.11'
Date: 254 / 2230 Depth 40.3 m
Location #_____

Procedure:

A) Photograph top of sediment and after side removed:_____

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated ✓, d) gravel or shell lag___, e) washed___.

2. Subsurface

   1. Sediment recovered thickness 20 cm.

   2. Texture - (check) sand___, gravel___, mud___, mixed ✓.

      - all sand gravel-shell lags depth 20 cm

      - bioturbated top 10 cm

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 1 quanity

   1. orientation of trays wide

   2. number on trays 029, _____.

2. Tube samples:_____quanity

   1. gas sample: a) number_____, b) depth _____, _____, _____, c) gas sample H2O _____.

3. Engineering water samples

   1. surface _____ (bottle #)

   2. mid core-depth _____(bottle #) depth_____cm.

   3. bottom _____(bottle #), _____cm.

4. Channel sample length of core 20 cm.

1. Other samples taken (sediment)

   - depth bio _____, foram _____, coarse _____.

   - surface _____

5. Biological

   1. Live animals or plants.

      - type: _____

      - abundance: _____

      - preserved: (check) yes___, no___,

      - formalin: (check) yes___, no___. If yes, sample container #_____, #_____, _____, _____.

   2. shells: (check) yes_✓_, no___.

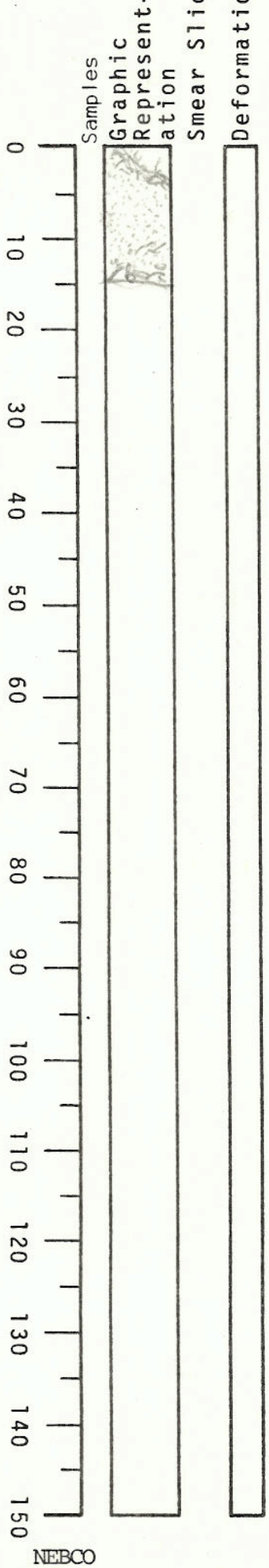
      - type:

6. Washed sieved concentrate _✓_____.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	030	

STATION#	OBSERVER
30	



Box Core @ 40.2 m

Box Core
Slab } 14 cm

light brownish to olive gray silty sands at surface w/ many branching bryozoans, clams, chiton, barnacles

medium sands w/ shells & pebbles sparsely distributed throughout. locally muddy. coarse sand areas at bottom

Slab
foram
coarse
bio } samples taken

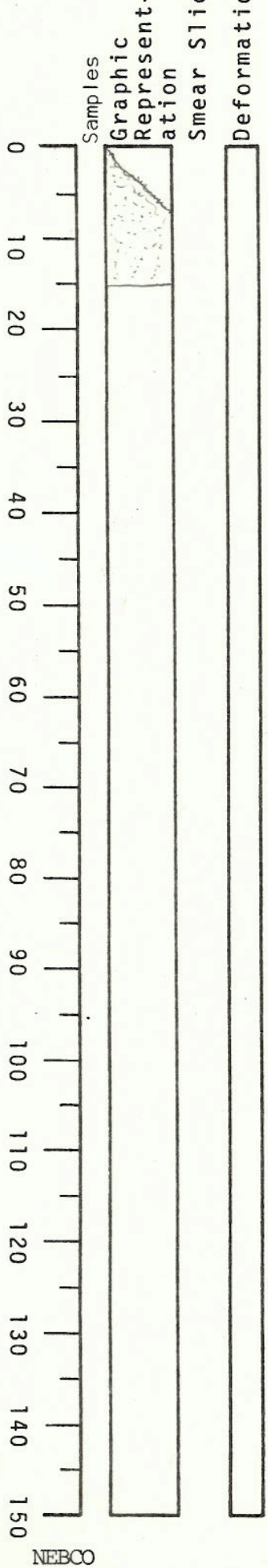
biology = branching & soft flat petal branching bryozoans, clams, barnacles, chitons

15 P
10 R

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	031	

STATION#	OBSERVER
031	Ed



JD 255 date
0040 time

Channel sample
Foram sample
Core Length - 15 cm

water depth - 42.
Lat. 70° 45.6'
Long. 161° 42.4'

subsamples - slab
channel
foram
coarse
bio

bio - branching bryozoans ; soft flat petal branching bryozoans, clams, barnacles, longworms

description: medium grained gravelly sand
Color - 10y 4/2 - Grayish Olive

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample # 31
Date: 9/11/84 Zulu 0040
Location # 31

Location N 70°45.6' W 161° 42.4'
Depth 42.0m

Procedure:

A) Photograph top of sediment and after side removed: Yes

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated___, d) gravel or shell lag X, e) washed___.

2. Subsurface

   1. Sediment recovered thickness 15 cm.

   2. Texture - (check) sand___, gravel___, mud___, mixed X.

      - all sand gravel-shell lags depth____cm

      - bioturbated _____%

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 1 quanity

   1. orientation of trays

   2. number on trays 031, _____.

2. Tube samples: ND quanity

   1. gas sample: a) number no, b) depth _____, _____, _____, c) gas sample H2O _____.

3. Engineering water samples

   1. surface no (bottle #)

   2. mid core-depth no (bottle #) depth_____cm.

   3. bottom no (bottle #), _____cm.

4. Channel sample length of core 15 cm cm.

1. Other samples taken (sediment)

   - depth _____, _____, _____.

   - surface _____

   - coarse fraction retained

5. Biological

   1. Live animals or plants.

      - type: clams, segmented worms, bryozoans

      - abundance: _____

      - preserved: (check) yes X, no___,

      - formalin:(check) yes X, no___. If yes, sample container #_____, #_____, _____, _____.

   2. shells: (check) yes X, no___.

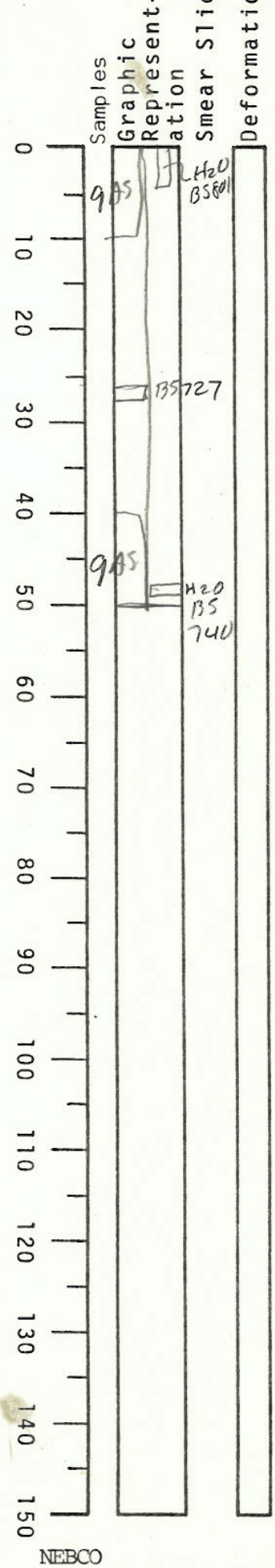
      - type: clam

6. Washed sieved concentrate yes - retained.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1 84 CS	032	

STATION#	OBSERVER
032	



Box core thickness 50 cm

1) slab tray
1) Pipe core - compaction 8° cm ⇒ = 42 cm cor
1) gas sample surface
1 water sample surface BS801
1 Foram sample, top 10 cm
1 Foram sample bottom 10 cm
1 water sample middle 27 cm from top BS727
1 water sample bottom 47 cm from top BS740
1 gas sample bottom 10 cm.
1 biology sample
2 channel sample
1 - washed sample:
Soft mud on upper 10 cm - pink worms.
in upper 15-20 cm - core bioturbated throughout - with oxidized and reduced (black) zones - some burrows lined.. - core all mud - <10 small black pebbles - 2 cm pelecypod shells. - oxidized burrows.

NEBCO

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample #__032__ Location 71° 17.3' 165° 43.6'
Date: 9-11-84 Depth __41.2m__
Location #_____

Procedure:

A) Photograph top of sediment and after side removed: ✓

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated___, d) gravel or shell lag___, e) washed___.

2. Subsurface

   1. Sediment recovered thickness _50__ cm.

   2. Texture - (check) sand___, gravel___, mud ✓, mixed___.

      - all sand gravel-shell lags depth____cm

      - bioturbated _____%

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: __1____ quanity

   1. orientation of trays lengthwise

   2. number on trays __032__, _____.

2. Tube samples: ____2____ quanity

   1. gas sample: a) number ____2_____, b) depth _top 10 cm, _bottom 10 cm_, _____, c) gas sample H20 _____.

3. Engineering water samples

   1. surface B5801_____ (bottle #)

   2. mid core-depth B5727 (bottle #) depth _27__ cm. tr. top

   3. bottom B5740_____ (bottle #), ____47_____ cm. tr. top

4. Channel sample length of core _____ cm.
   top & bottom

1. Other samples taken (sediment)

   - depth pipe cove 42 cm., _____, _____.

   - surface _____

5. Biological

   1. Live animals or plants.

      - type: worms, gastopod, sea snake

      - abundance: low

      - preserved: (check) yes___, no___,

      - formalin: (check) yes ✓, no___. If yes, sample container #_____, #032, _____, _____.

   2. shells: (check) yes X, no___.

      - type: very few

6. Washed sieved concentrate ✓.

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample # 033 Location CHUKCHI
Date:_____ Depth 42.4
Location #_____

Procedure:

A) Photograph top of sediment and after side removed: YES
" OF TRAY

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated ✓, d) gravel or shell lag___, e) washed___.

2. Subsurface

1. Sediment recovered thickness 45 cm.

2. Texture - (check) sand___, gravel___, mud ✓, mixed___. WASHED 74mm 2-3 PEBBLES, PELECYPODS

- all sand gravel-shell lags depth____cm

✓ bioturbated 100 %

- biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 1 quanity

1. orientation of trays WIDE SIDE OF CORE

2. number on trays_____, _____.

2. Tube samples: 1 quanity

1. gas sample: a) number 2, b) depth 0-10cm, 35-45cm, _____, c) gas sample H2O YES. 3 water samples Top, mid depth and bottom

3. Engineering water samples

1. surface F301 (bottle #)

2. mid core-depth BS-642 (bottle #) depth 22 cm.

3. bottom BS-830 (bottle #), 45 cm.

4. Channel sample length of core 45 cm. 2 SAMPLES

1. Other samples taken (sediment)

0 - 10cm depth FORAM 35-45 FORAM _____, _____.

- surface _____

5. Biological

1. Live animals or plants. ✓

- type: BLACK ANEMONE FULL LENGTH of CORE 1.5 - 2.0 cm DIAMETER - SEVERAL
- abundance: SPARSE - BURROWS
- preserved: (check) yes___, no ✓, IN WITH CORE
- formalin: (check) yes___, no ✓. If yes, sample container #_____, #_____, _____, _____.

2. shells: (check) yes ✓, no___.

- type: few - also old - essentially one species

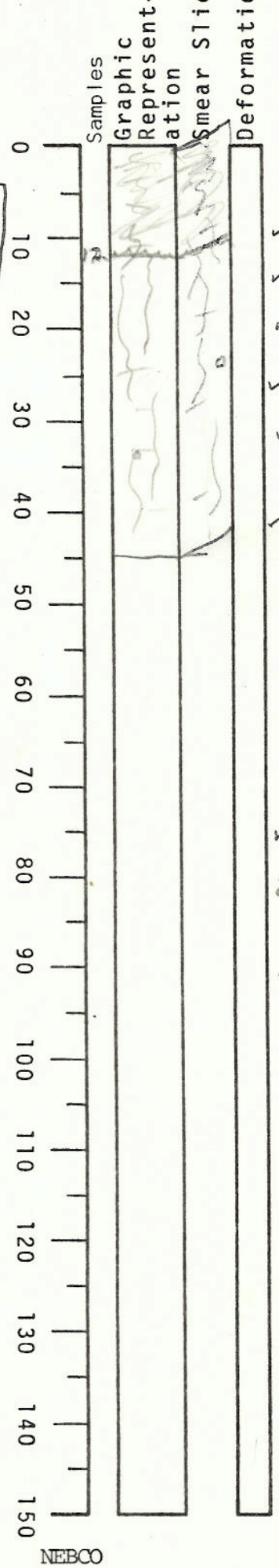
6. Washed sieved concentrate yes. — [signature] wet - [signature]

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	033	

STATION#	OBSERVER
033	

71° 22.4'
166° 07.7'
42.4m



Total length core 45 cm
✓ Slab tray
✓ pipe core 7.5 cm compaction
✓ water sample (Top F 301)
✓ gas sample Top 10 cm
✓ water sample mid depth 22 cm from top (BS 642)
✓ water sample bottom 45 cm from top (BS 830)
✓ gas sample bottom.
✓ gas sample water only
✓ Foram sample top 10 cm
✓ Foram sample Bottom 10 cm (35-4
2 ✓ channel samples
2 ~~biology sample~~
✓ washed sample shells

SAMPLE IS LT. OLIVE / BROWNISH GRAY AT SURFACE 12
DK OLIVE GRAY UNDERNEATH - stiff

SILTY MUDS

- Surface soft mud - 12 cm old
- WHOLE CORE INTENSELY BIOTURBATED.

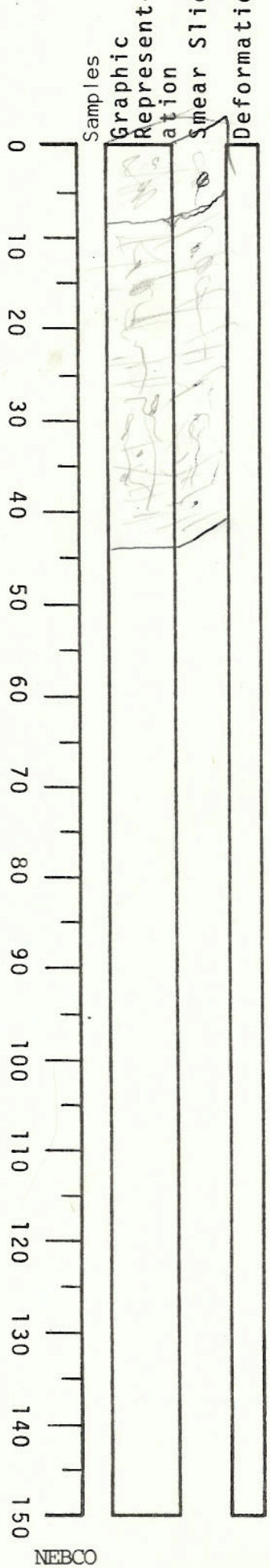
top core 1 cm - oxidized - to 12 cm soft flowing mud - pelecypods at approximately 12-15 cm - some old shells - Approximately 20 cm down in scattered layer - with both valves. Increasing hard mud toward base of core - (compacted) - anomeneous abundant - black.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	034	

STATION#	OBSERVER
034	

43.0m
70° 24.5'
166° 21.2'



1) CORE LENGTH 44 cm
1) SLAB TRAY
ENGINEERING 9cm COMPACTION
1 SURFACE WATER CONTENT (BS 875)
1 MID WATER CONTENT 23 cm (F291)
1 BOTTOM WATER CONTENT 44 cm (BS 893)
1 GAS SAMPLE 0-10cm
1 GAS Sample 34-44 cm
LIVE WORMS at least ½ way down
CORE TO BOTTOM OF OXIDIZED ZONE
1 Biological Sample.
2. Channel Samples.

0-8 cm Soft soft oxidized muds
8-24 cm — harder mud than muds below slightly REDUCED AND MOTTLED.
24-44 cm - Reduced Zone with intense Bioturbation. mottled with 1/4 - 1/2 cm oxidized Burrows throughout
≈ 34 cm — pelecypods living here?

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample # 034 Location CHUKCHI SEA
Date: 256 Depth 43.0
Location #_____

Procedure:

A) Photograph top of sediment and after side removed: yes
1 of Top & 1 of Reel

B) Description

1. Surface: (check one) a) flat ✓, b) rippled___, c) bioturbated ✓, d) gravel or shell lag___, e) washed___.

2. Subsurface

1. Sediment recovered thickness 44 cm.

2. Texture - (check) sand___, gravel___, mud ✓, mixed___.

- all sand gravel-shell lags depth____cm

- bioturbated 100 %

- biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 1 quanity

1. orientation of trays - WIDE SIDE OF BOX CORE

2. number on trays_____, _____.

2. Tube samples:_____quanity

1. gas sample: a) number (2), b) depth 0-10 cm, 34-44 cm, _____, c) gas sample H20 NO.

3. Engineering water samples - CONVERTED 9 cm

1. surface BS-875 (bottle #)

2. mid core-depth F-291 (bottle #) depth 23 cm.

3. bottom BS-893 (bottle #), 44 cm cm.

4. Channel sample length of core 44 cm. (2) SAMPLES

1. Other samples taken (sediment)

   - depth _____, _____, _____.

   - surface _____

5. Biological

   1. Live animals or plants.

      - type: polychaete worm, very large

      - abundance: 1

      - preserved: (check) yes ✓, no___,

      - formalin: (check) yes ✓, no___. If yes, sample container #_____, #_____, _____, _____.

   2. shells: (check) yes ✓, no___.

      - type:

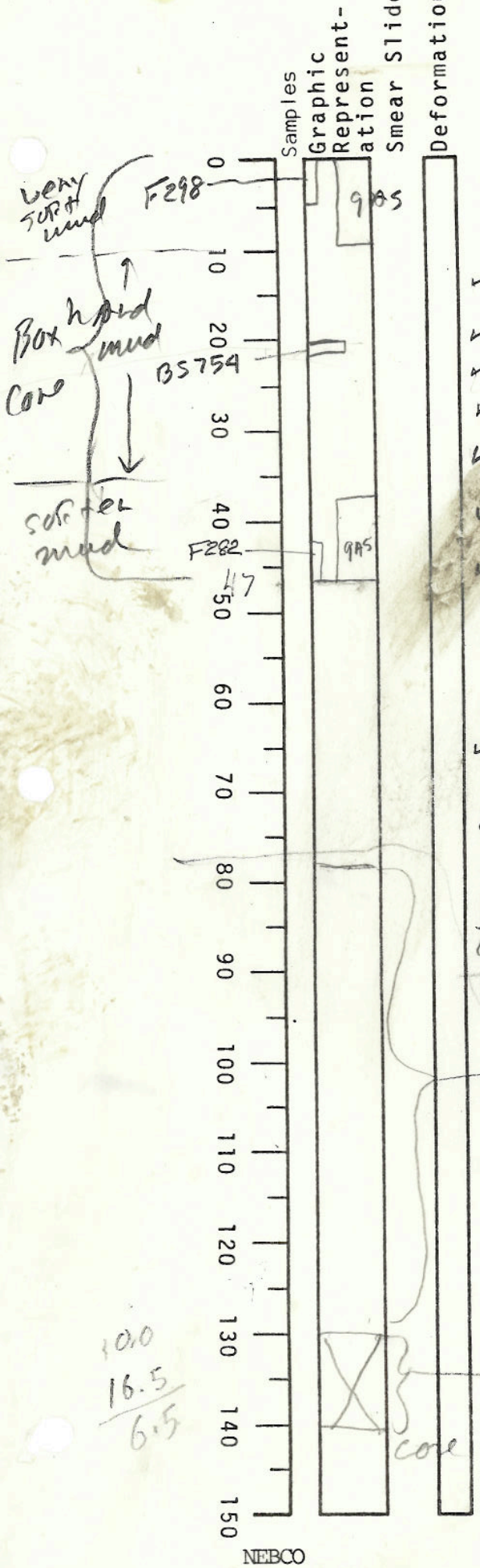
6. Washed sieved concentrate yes. leached pelecypods 1 or 2 small leached gastropods most very soft - leached and etched.

Box Core

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-C5	035	

STATION#	OBSERVER
035	R



Core length 47 cm

- Slab tray
- Pipe core 5 cm compaction
- water sample. F298 (Top)
- " " BS754 (mid) 21 cm from Top
- " " F282 (Bottom)
- gas sample top 10 cm
- " " Bottom 10 cm.

43 m depth N

JD 256 11837 W

- FOLAM sample - top 10 cm
- " " Bottom 10 cm

2 channel samples.

surface-oxidized mud (light brn) bioturb fecal pellets - rest of core bioturbates with

1 Biology sample - lounge worm

reduced (black) zones - lighter brown fills in some cracks - samples all mud, very soft at surface - hard mud, then softer mud in bottom 15 cm.

Total length core 52.5
16.5
69.0
~~-6.5~~
~~62.5~~

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample # 036 Location 70° 54.9, 168°28.0
Date: 256 Depth 43m
Location #

Procedure:

A) Photograph top of sediment and after side removed: Top & Side

B) Description

1. Surface: (check one) a) flat ✓, b) rippled___, c) bioturbated ✓, d) gravel or shell lag___, e) washed___.

2. Subsurface

1. Sediment recovered thickness 47 cm.

2. Texture - (check) sand___, gravel___, mud ✓, mixed___.

- all sand gravel-shell lags depth____cm

- bioturbated 100 %

- biological mats (tube worms, ect.)

C) Samples

1. slabtrays: 1 quanity

1. orientation of trays WIDE SIDE OF BOX!

2. number on trays 035, _____.

2. Tube samples: 1 quanity GRAVITY CORE

1. gas sample: a) number 2, b) depth SURFACE 0-70cm 37-49cm, _____, c) gas sample H20 NO.

3. Engineering water samples

1. surface F 298 (bottle #)

2. mid core-depth 05254 (bottle #) depth 22 cm.

3. bottom F 282 (bottle #), 47 cm.

4. Channel sample length of core (2) 0-47 cm.

1. Other samples taken (sediment)

0 - 10 depth Forams, 37-47 Forams, _____.

- surface _____

5. Biological

1. Live animals or plants. WASHED SAMPLE

/ - type: LARGE WORM

- abundance: RARE

- preserved: (check) yes ✓, no___,

- formalin:(check) yes ✓, no___. If yes, sample container #035, #_____, _____, _____.

2. shells: (check) yes ✓, no___.

- type: few - in with Bio Sample.

6. Washed sieved concentrate NO.

GRAVITY CORE

VISUAL CORE DESCRIPTION

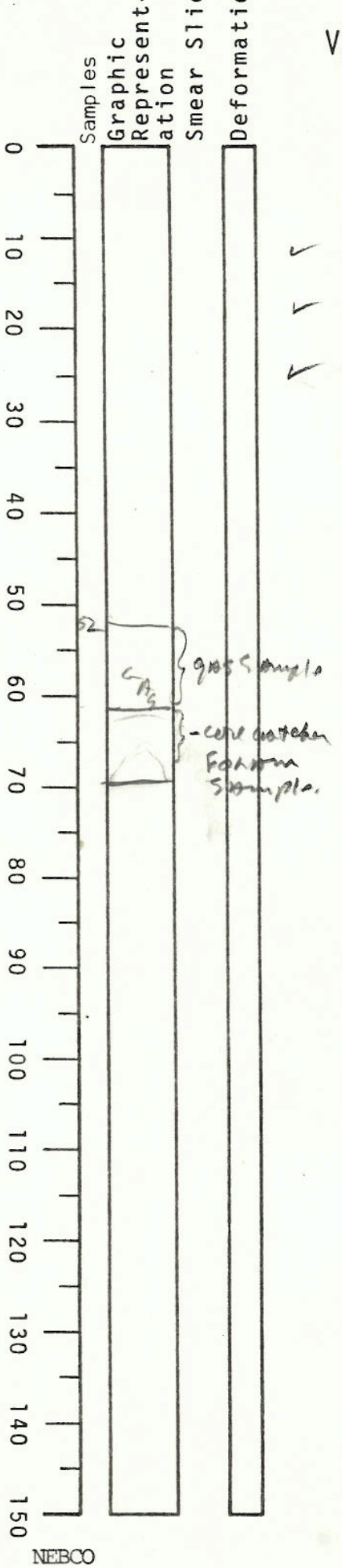
LOCATOR	SAMPLE NO.	SEC.
S1-δ4-CS	0356	

STATION#	OBSERVER
0356	

✓ TOTAL LENGTH (core sample) 69cm

✓ GAS SAMPLE 52.5-62.5cm

✓ CORE CATCHER 6.5cm



Box Core

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-L3	036	

STATION#	OBSERVER
036	

53.5 m
70° 52.8
167° 46.9

Samples	Graphic Representation	Smear Slide	Deformation

CORE LENGTH 56 cm

compaction 11 cm END CORE SURFACE

0-10 cm GAS SAMPLE

ENGINEERING CORE SURFACE & 28 cm & BOTTOM

SURFACE FORAM - ~~[illegible]~~

SLAB on wide side

GAS SAMPLES TOP & BOTTOM

10 cm TOP FORAM

10 cm BOTTOM FORAM

TOP 10 cm is very runny light olive gray mud, then dark gray g
FROM ~30 cm on down becomes dark gray green & black = very reduced

BIOLOGY - * clam shells @ 11 cm and scattered throughout below 30 cm
Gastropod
Shrimp

@ 33-36 cm = pockets of fibrous organic matter

NEBCO

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample #__036____ Location_____
Date: _256___ Depth___539m___
Location #_____

Procedure:

A) Photograph top of sediment and after side removed: _yes

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated_✓_, d) gravel or shell lag___, e) washed___.

2. Subsurface

   1. Sediment recovered thickness _56__cm.

   2. Texture - (check) sand___, gravel___, mud✓, mixed___.

      - all sand gravel-shell lags depth____cm

      - bioturbated _100____% ?

      - biological mats (tube worms, ect.)
        SHELLS MORE ABUNDANT AT BOTTOM OF CORE

C) Samples

1. slabtrays: _1_____quanity

   1. orientation of trays

   2. number on trays____D36__, _____.

2. Tube samples: ____1_____quanity ENGINEERING COMPACTION 11cm

   1. gas sample: a) number___2_____, b) depth _0-10cm____, ___46-56cm___, _____, c) gas sample H20 ___YES_____.

3. Engineering water samples

   1. surface _F-292__ (bottle #)

   2. mid core-depth BS868 (bottle #) depth_28____cm.

   3. bottom BS-860___ (bottle #), _56_____cm.

4. Channel sample length of core ___0-56_____cm.

1. Other samples taken (sediment) From WASH

? - depth Wood piece, Foram 0-0, FORAM 46-56.

- surface _____

5. Biological

1. Live animals or plants.

- type: _____

- abundance: _____

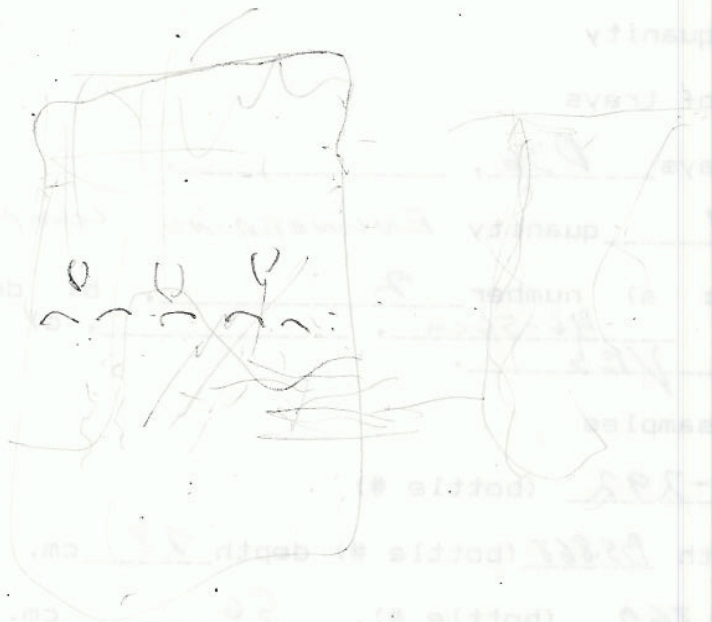
- preserved: (check) yes ✓, no___,

- formalin: (check) yes ✓, no___. If yes, sample container #036, #_____, _____, _____.

2. shells: (check) yes ✓, no___.

- type: PELECYPODE, GASTROPOD - IN BIO SAMPLE

6. Washed sieved concentrate Yes MOSTLY SHELLS. FEW PEBBLES TO 3cm



CONTINUITY

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	0366	

STATION#	OBSERVER
036	

LENGTH 42cm

NO SUB SAMPLES TAKEN

53.9

70° 52.8

167° 46.7

Samples	Graphic Representation	Smear Slide	Deformation

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NEBCO

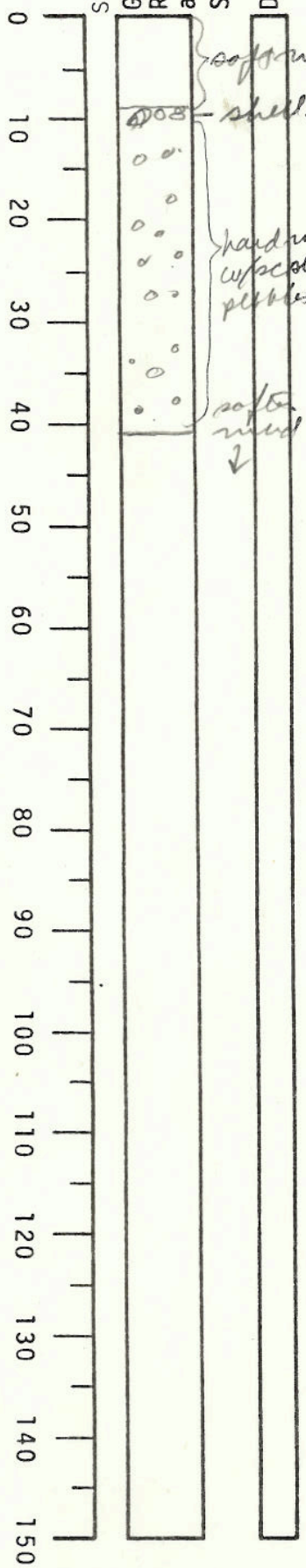
VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
91 84 CS	037	

STATION#	OBSERVER
037	

46m
70° 50.4
167° 06.2

Samples | Graphic Representation | Smear Slide | Deformation



NEBCO

Box CORE @ 46 m

CORE LENGTH 42 cm

✓ SLAB TRAY

✓ ENGINEERING 6.5 cm COMPACTION

✓ SURFACE WATER CONTENT (F 273)

MID WATER CONTENT 21 cm (B5 242)

BOTTOM WATER CONTENT 42 cm (E306)

✓ GAS SAMPLE 0-10 cm

✓ GAS SAMPLE 32-42 cm

2 Channel samples

✓ Coarse sample = >4mm washed

✓ Biological sample

2 FORAM samples TOP & BOTTOM 0-10 cm 32-42 cm

CORE DESCRIPTION

SURFACE COLOR: brn-oxidized

INTERIOR COLOR: gray-blue

TEXTURE: mud, below 9 cm mud with scattered pebbles

STRUCTURES: bioturbated

Top core soft flowing mud to 9 cm - shell lag across core below 9 cm - to 2 cm (+) thick in hard mud.

Mud below 9 cm very hard, with scattered pebbles - most less than 0.5 cm - maximum size to 2 cm well rounded (most). Most mud bioturbated throughout core.

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample # 037 Location 70° 50.4' 162° 08.2
Date: 256 Depth 46.0m
Location # Chukchi Sea

Procedure:

A) Photograph top of sediment and after side removed: yes

B) Description

1. Surface: (check one) a) flat ✓, b) rippled___, c) bioturbated ✓, d) gravel or shell lag___, e) washed___.
(with burrows (2) in relief above mud)

2. Subsurface

1. Sediment recovered thickness 42 cm.

2. Texture - (check) sand___, gravel___, mud ✓, mixed ✓ with scattered pebbles

- all sand gravel-shell lags depth 9" cm

- bioturbated ✓ %

- biological mats (tube worms, ect.) all shells leached below 15 cm one large bivalve above

C) Samples

1. slabtrays: ✓ quanity 1

1. orientation of trays

2. number on trays 1, _____.

2. Tube samples: 1 quanity

1. gas sample: a) number 2, b) depth 0-10; 32-42, _____, _____, c) gas sample H20 ✓ NO.

3. Engineering water samples

1. surface F.273 (bottle #)

2. mid core-depth B5 742 (bottle #) depth 20 cm.

3. bottom F-306 (bottle #), 42cm cm.

4. Channel sample length of core 2 cm.

1. Other samples taken (sediment)

- depth Foram 0-10 cm - 32-42 cm, _____.

- surface _____

5. Biological

1. Live animals or plants.

- type: Crustaceans

- abundance: no - 3 to 4

- preserved: (check) yes ✓, no___,

- formalin: (check) yes___, no___. If yes, sample container #_____, #_____, _____, _____.

2. shells: (check) yes (1), no___.

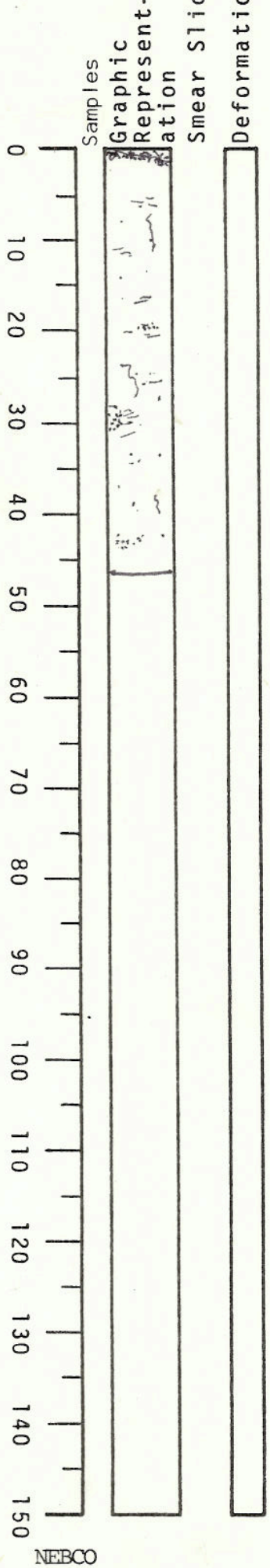
- type: pelcypod - 3 cm / wht / bkn

6. Washed sieved concentrate pebbles - . multi source most well rounded

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1-84-CS	038	

STATION#	OBSERVER
038	



CORE LENGTH 47 cm

END CORE COMPACTION 8.75 cm

SLAB

Channel

foram Top & Bottom

Water content sample top

" " " mid 25 cm

" " " bottom 47 cm

Gas sample top

" " bottom

Water (background)

few pebbles scattered on surface

Sands (med-fine) on top, thin veneer < 1 cm - .5 cm

light olive gray mud & sands at surface, bioturbated

olive gray interior ~~[illegible]~~ locally ~~[illegible]~~ - sandy, & silty throughout. pebbles scattered & coal chip pebbles throughout

worms

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample # 038 Location _____
Date: 25 7 50 Depth 45.7 m
Location # 038

Procedure:

A) Photograph top of sediment and after side removed: ✓

B) Description

1. Surface: (check one) a) flat___, b) rippled___, c) bioturbated ✓, d) gravel or shell lag___, e) washed___.

2. Subsurface

   1. Sediment recovered thickness _____cm.

   2. Texture - (check) sand ✓, gravel___, mud ✓, mixed ✓.

      - all sand gravel-shell lags depth____cm

      - bioturbated ✓ %

      - biological mats (tube worms, ect.)

C) Samples

1. slabtrays: ✓ quanity

   1. orientation of trays

   2. number on trays 038, _____.

2. Tube samples: _____quanity

   1. gas sample: a) number ✓, b) depth top, _____, bottom, c) gas sample H2O yes.

3. Engineering water samples

   1. surface BS-793 (bottle #)

   2. mid core-depth BS-818 (bottle #) depth 25 cm.

   3. bottom F-288 (bottle #), 47 cm.

4. Channel sample length of core 47 cm.

1. Other samples taken (sediment)

   - depth bio, coarse, _____.

   - surface _____

5. Biological

   1. Live animals or plants.

      - type: Worms

      - abundance: _____

      - preserved: (check) yes___, no___,

      - formalin: (check) yes___, no___. If yes, sample container #_____, #_____, _____, _____.

   2. shells: (check) yes___, no___.

      - type:

6. Washed sieved concentrate ✓.

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
S1 · 84 L S	039	

STATION#	OBSERVER
039	

Depth 45.5 m

BOX CORE LENGTH 47.5 cm

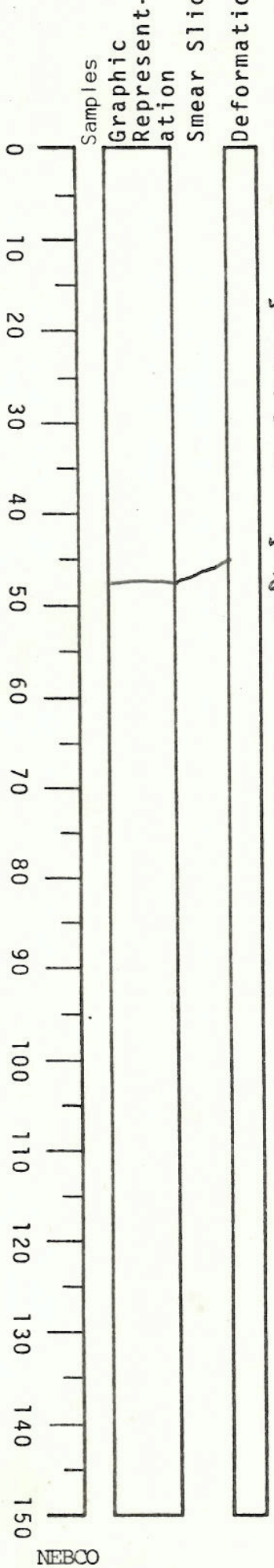
✓ ENGINEERING CORE 5.5 COMPACTION ___ cm
✓ WATER CONTENT TOP ✓ # BS 857
✓ MID 24.5 cm # F307
✓ BOTTOM 47 cm # F294
✓ GAS SAMPLE TOP 10 cm
✓ " " BOTTOM 37.5 - 47.5 cm

~~WATER (BACKGROUND)~~

✓✓ foram top & bottom 0-10 37.5 - 47.5
2 channel
✓ slab
oxidized layer 0-5 cm Reduced below here. scattered shells
✓ washed sample

~~bio~~ no - only 1 white pelecypod in washed bag

color : - gray
texture : - mud
Lithology : - bioturbated mud few granules - soft fine mud top cm - rest silty mud with reduced (black zones) - broken shells with few black (one white) pebbles in wash sample - one hermit crab at top of box.



NEBCO

BOX CORE SAMPLES
NOAA SHIP SURVEYOR S-132

Sample #_039_____ Location 69° 29.6 167° 03.7'
Date: 25_____ Depth_45.5_____
Location #_____

Procedure:

A) Photograph top of sediment and after side removed: yes

B) Description

1. Surface: (check one) a) flat ✓, b) rippled___, c) bioturbated ✓, d) gravel or shell lag___, e) washed___.

2. Subsurface

   1. Sediment recovered thickness 47.5 cm.

   2. Texture - (check) sand___, gravel___, mud ✓, mixed ✓. few pebbles - shells

      - all sand gravel-shell lags depth____cm —

      - bioturbated 100 %

      - biological mats (tube worms, ect.) no

C) Samples

1. slabtrays: 1 quanity

   1. orientation of trays

   2. number on trays 1, _____.

2. Tube samples: _____quanity

   1. gas sample: a) number 2 0-10 cm, b) depth 37.5-47.5 cm, _____, _____, c) gas sample H20 No.

3. Engineering water samples — Compaction 5.5 cm = 42 cm length

   1. surface BS-857 (bottle #)

   2. mid core-depth F307 (bottle #) depth 24.5 cm.

   3. bottom F-294 (bottle #), 47.5 cm.

4. Channel sample length of core 2 ~~45~~ 47.5 cm.

1. Other samples taken (sediment)

- depth _____, _____, _____.

- surface _____ 1 washed sample

5. Biological no biology sample.

1. Live animals or plants.

- type: 1 pelypod - white 2 cm or less

- abundance: no

- preserved: (check) yes ✓, no___, in wash bag

- formalin: (check) yes___, no ✓. If yes, sample container #_____, #_____, _____, _____.

2. shells: (check) yes ✓, no___. broken fragment

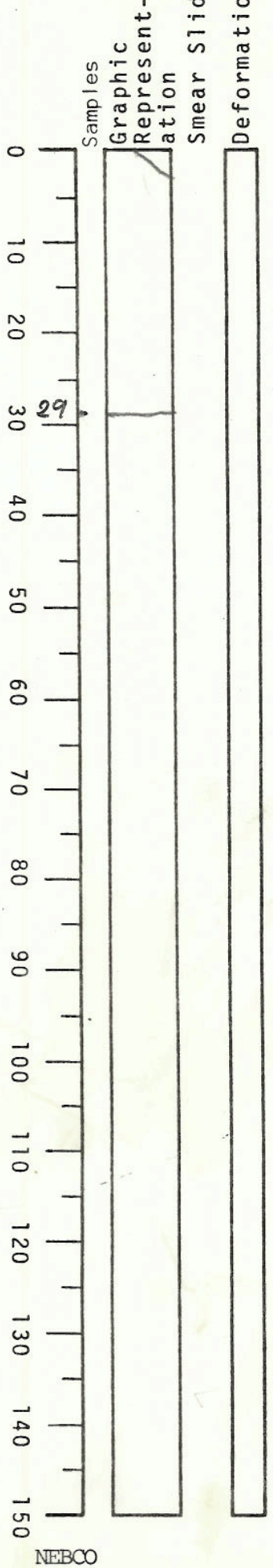
- type: pelypod - 2 gastropod

6. Washed sieved concentrate yes. one bag

VISUAL CORE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.
51 78 4 CS	040	

STATION#	OBSERVER
040	



Water depth 40.5 m
core length 29 cm
1 Shab tray ___ cm

4 Engineering core
Compression 7 cm

2 Channel samples
1 Foram top 10 cm
1 Foram 19–29 cm
1 water sample Top B5767
1 water sample Bottom B5776

core - all mud - brittle stars and gastropods at top core - few small pelecypods in lower mud. brn oxidized surface - gray mud - bioturbated below.