91039smp

LT = Large SSteel Tube for Density

ST = small stainless steel tube for Density

**F11-91-HW**
R/V FARNELLA

STATION/CORE ID: 5B2 APPROX. LOCATION:
DATE: 11/18/91
WEATHER: WATER DEPTH(m): ~1300m
RECORDED BY: NAVIGATION:
PROCESSORS: WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES:

COMMENTS: 1,55 t pull-out
Hit @ 1305 m wire-out
drained when reached surface

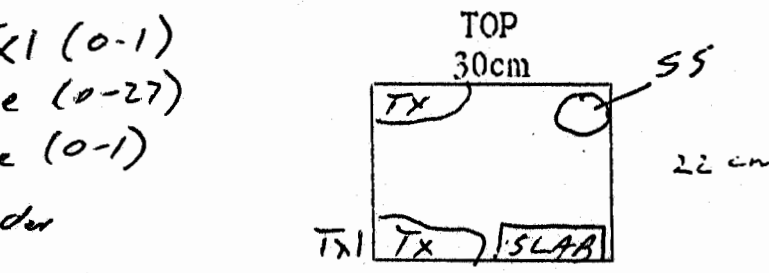
**CORE LOCATION**

| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | | | |
| LAT: | | | | |
| LON: | | | | |

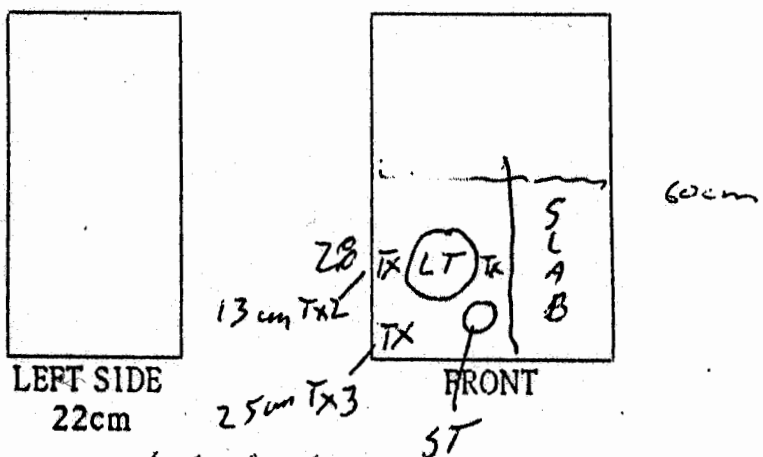
**BOX CORE INFORMATION**

Recovery 28 cm

Surface - TX1 (0-1)
SS Subcore (0-27)
Bulk surface (0-1)
Bulk Remainder
LT @ 13
ST @ 22
TX2 (13)
TX3 (25)




Coarse angular volc sand




Note: Btm 3 cm of slab lost removing slab from core

# SAMPLE LOG

LOCATOR: F11-91-HW SAMPLE NO: 582

STATION NO: 582

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| Box Run | SURF | HAMPTON | USGS | Tx 1 | 11-18 |
| | 0-27 | Lee | " | SS Subcore | |
| | 0-28 | " | " | Slab | |
| | 13 | " | " | Density Large Tube | |
| | 22 | " | " | Density Small Tube | |
| | 13 | Hampton | " | Tx 2 | |
| | 25 | " | " | Tx 3 | |
| | 0-1 | Lee | " | Bulk | |
| | 1-27 | " | " | Bulk | |
| | 1-27 | WINTERS | " | CRSC 1 | |
| | | | | | |
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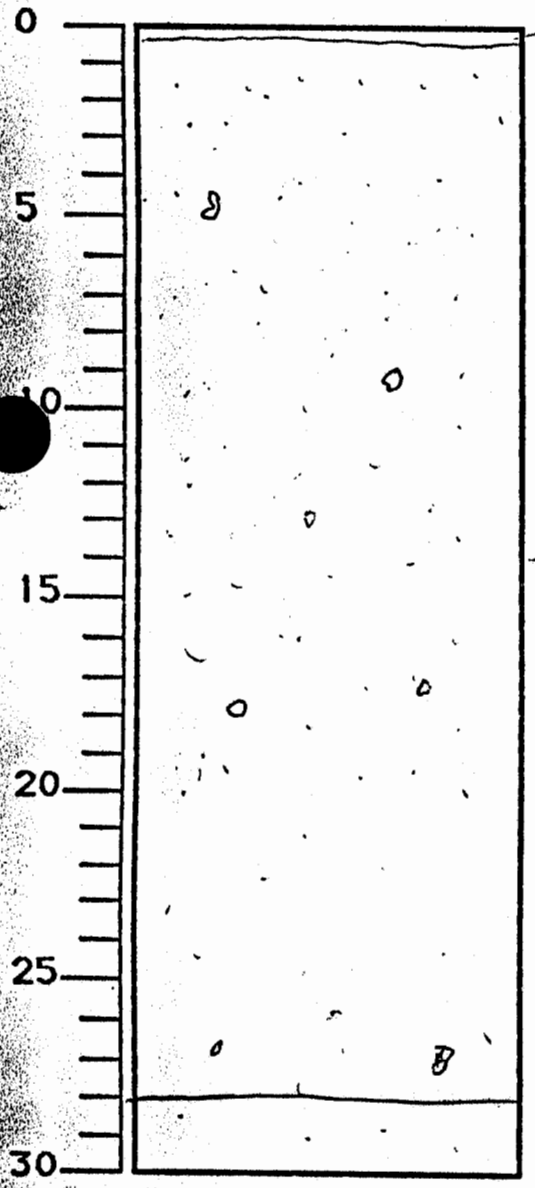
NEBCO

# F11-91-HW
# Box Core Visual Description Form

Core ID: 5BZ / 6B1 Observer: MIKE TORRESANI

## Description

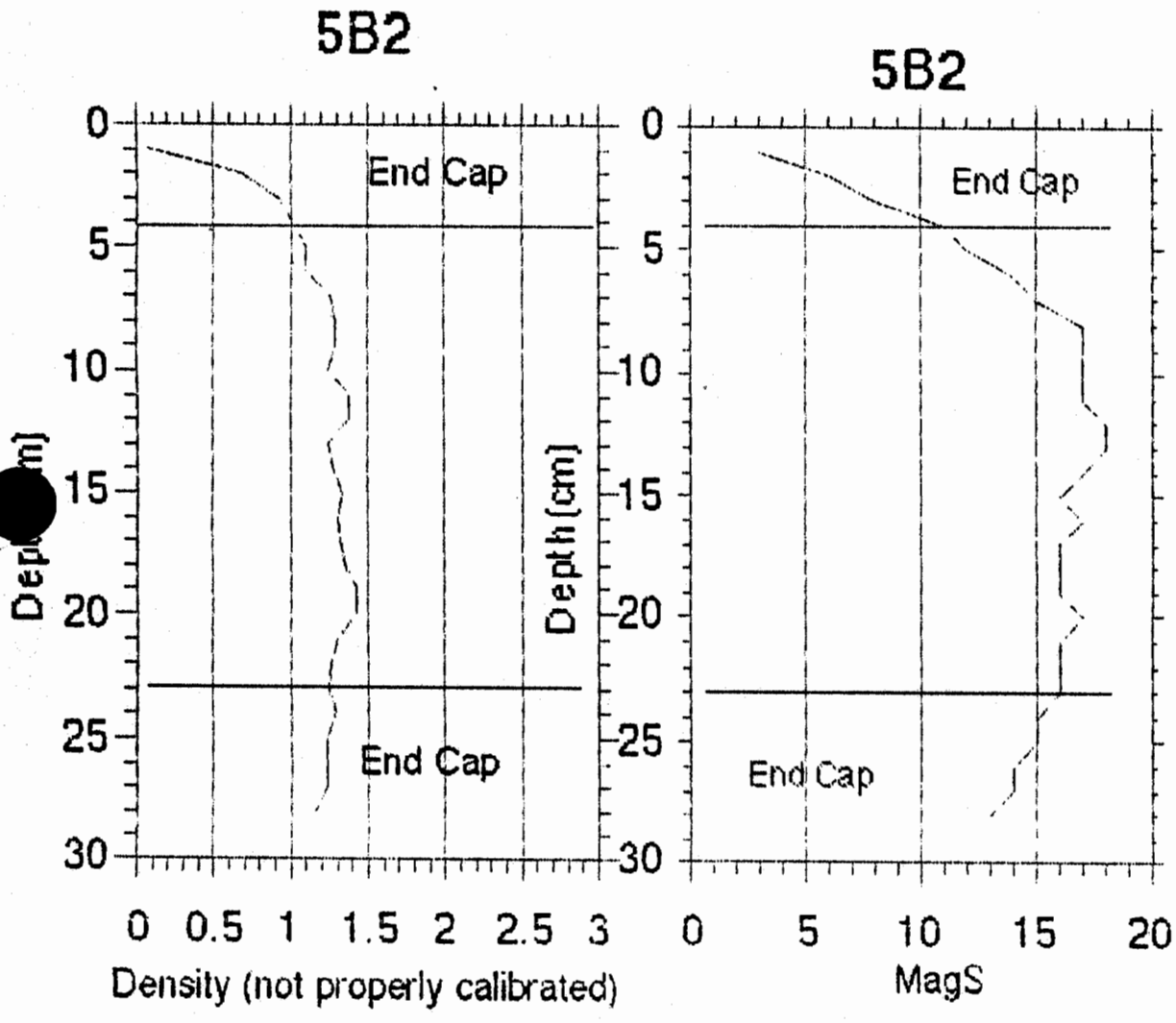
5BZ = 28cm
6B1 = 25cm




FINE SAND

MASSIVE BLACK SAND THAT MAY BE SLIGHTLY GRADED FINE UPWARDS. CAPPED WITH A FINE LAYER OF (~.1→.5 FINE SAND THAT IS SLIGHTY LIGHTER COLORED THAN THE COARSER BLACK SAND.

MASSIVE, COARSE BLACKSAND W/SOME Pebbles


5B2
End Cap
End Cap
Depth (cm)
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
5B2
End Cap
End Cap
0 5 10 15 20
MagS

**F11-91-HW**
R/V FARNELLA

STATION/CORE ID: 6B1 APPROX. LOCATION:
DATE: 11/18
WEATHER: WATER DEPTH(m):
RECORDED BY: NAVIGATION:
PROCESSORS: WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES:

COMMENTS:

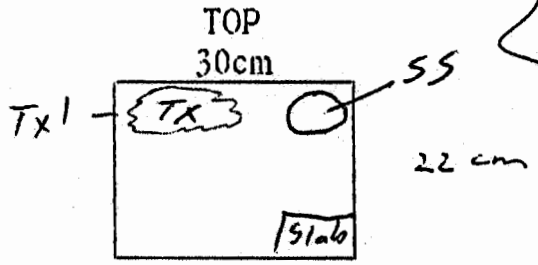
## CORE LOCATION

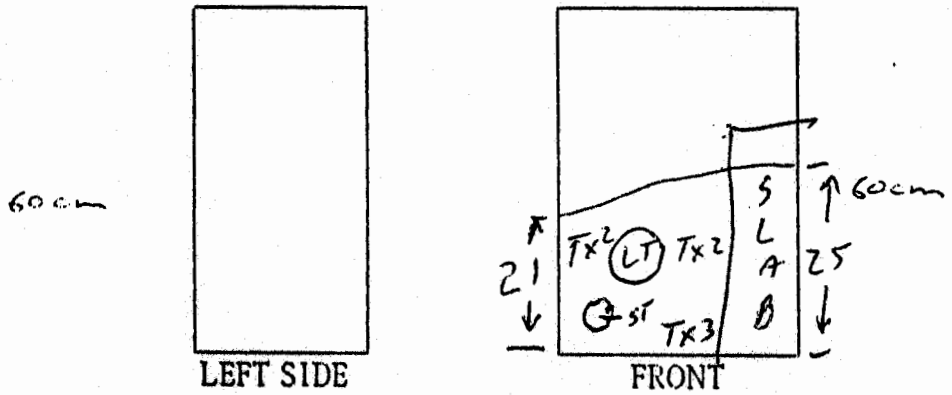
| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | | | |
| LAT: | | | | |
| LON: | | | | |

## BOX CORE INFORMATION

Recovery: 25
SS: 0-25
Tx1-Tx: surf (spoon)
LT: 11cm
ST: 18cm
Tx2: 12cm
Tx3: 25cm (btm)

use angular volc. sand



# SAMPLE LOG

LOCATOR: F11-91-HW SAMPLE NO: 6B1

STATION NO: 6

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| Box | 0-25 | Lee | USGS | SS | 11/18 |
| | 0-25 | " | " | Slab | " |
| | 0-1 | Hampton | " | TX 1 | |
| | 12 | " | " | TX 2 | |
| | 25(6tm) | " | " | TX 3 | |
| | 11 | Lee | " | Large Tube | |
| | 18 | " | " | Small Tube | |
| Bag | 0-1 | " | " | Bulk TX | |
| | 1-25 | " | " | Bulk TX | |
| | 1-25 | WINTERS | " | CRSC 1 | |
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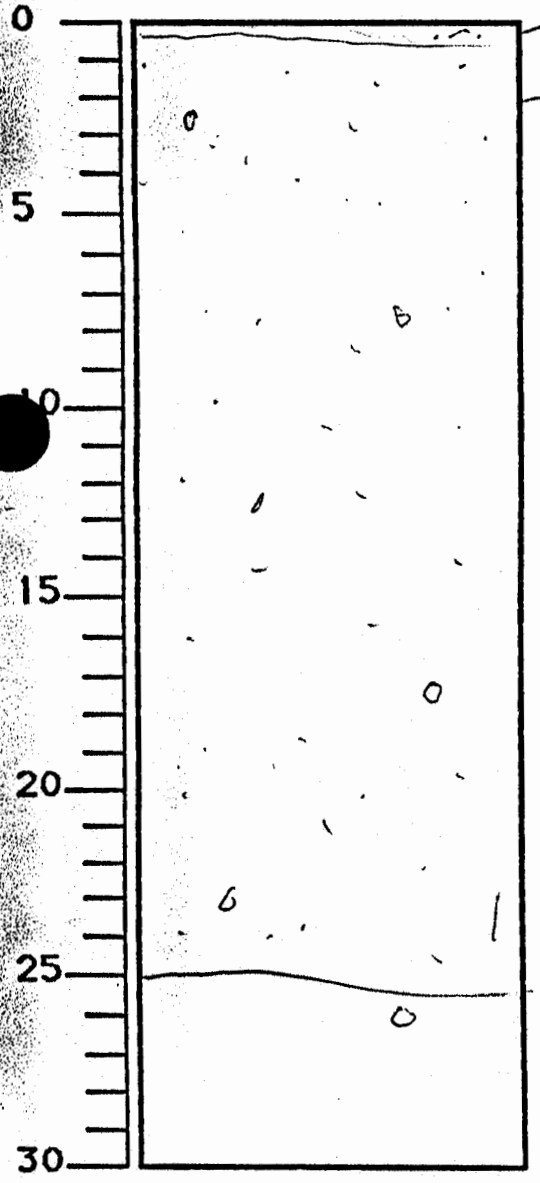
NEBCO

# F11-91-HW
# Box Core Visual Description Form

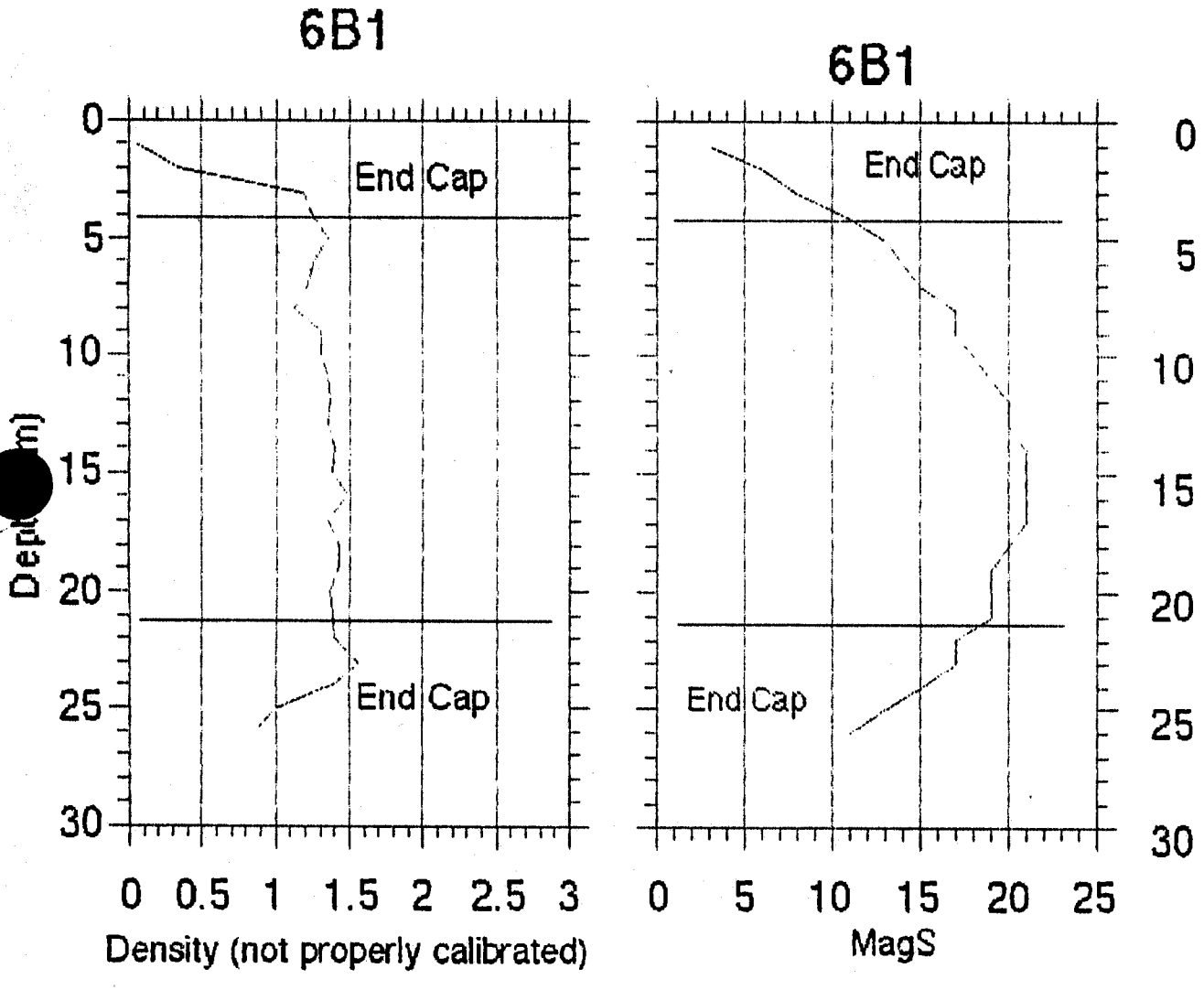
Core ID: 6B1 Observer: Mike T

## Description




FINE SAND

COARSE BLACK SAND (NI) 25cm
Possibly FINE UPWARDS but
STRUCTURESS FEW Pebbles


6B1
End Cap
End Cap
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
6B1
End Cap
End Cap
0 5 10 15 20 25
MagS

**F11-91-HW**
**R/V FARNELLA**

STATION/CORE ID: 7-B2 APPROX. LOCATION: OFF KILAUEA
DATE: 11-18-91
WEATHER: LG SWELL WATER DEPTH(m):
RECORDED BY: WTW NAVIGATION:
PROCESSORS: WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES:

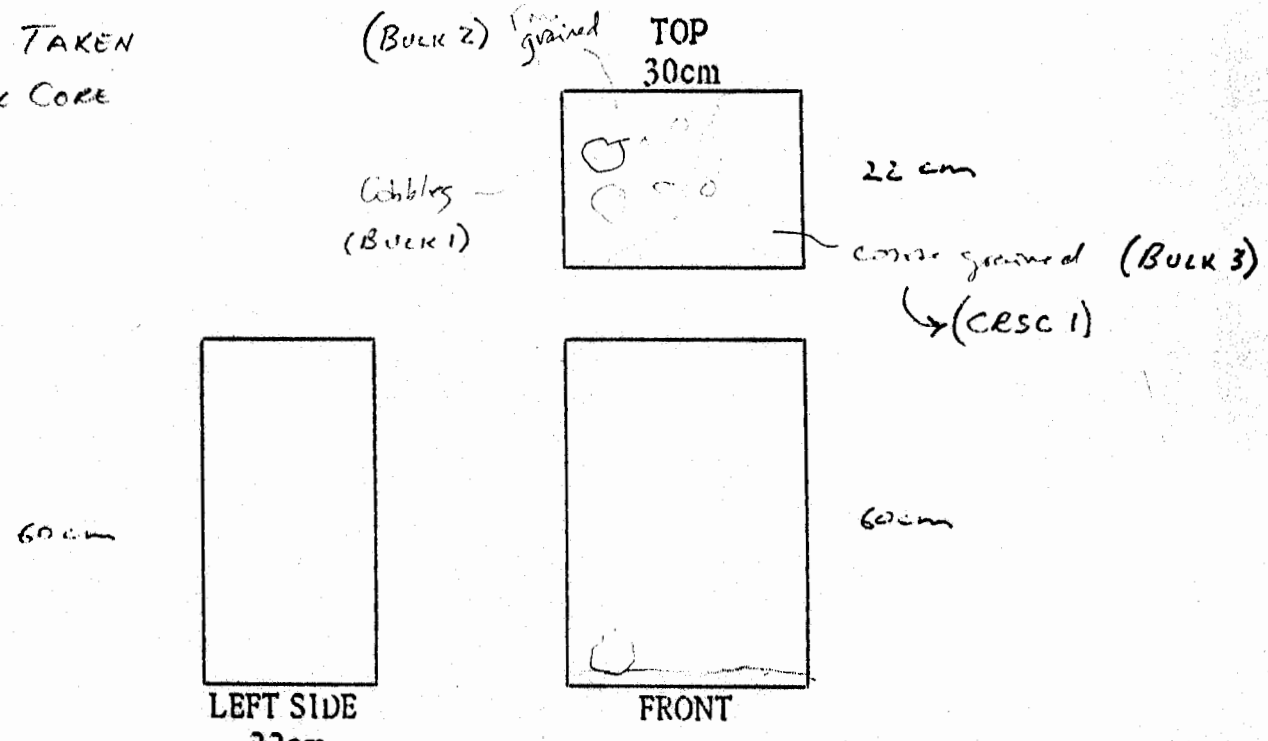
COMMENTS: ONLY ~ 2cm OF SED WAS OBTAINED; SHOVEL WAS COMPLETELY CLOSED ∴ WE DID NOT LOSE ANY SED.

## CORE LOCATION

| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | ~1250 | | ~1320 |
| LAT: | | | | |
| LON: | | | | |

## BOX CORE INFORMATION

PHOTOS TAKEN OF BOX CORE (WTW)



# SAMPLE LOG

LOCATOR: F11-91-HW

SAMPLE NO: 7-B2

STATION NO: 7

Box Core

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| BULK 1 (SM. ZIPLOK) | SURFACE COBBLES | LEE | USGS | | 11-18-91 |
| BULK 2 (SM ZIPLOK) | 0-0.5cm FINE GRAIN. | " | " | | " |
| BULK 3 (MED TRASH) | 0-2cm COARSE GRAIN. | " | " | | " |
| CRSC 1 (SM. ZIPLOK) | 0-2cm COARSE GRAIN. | WINTERS | " | CRSC | " |
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NEBCO

Pu'u O'o

OFF KUPIANAHA

Kupianaha

**F11-91-HW**
**R/V FARNELLA**

STATION/CORE ID: 8 - B1 APPROX. LOCATION: OFF KILAUEA
DATE: 11-18-91
WEATHER: WATER DEPTH(m):
RECORDED BY: WTW NAVIGATION:
PROCESSORS: WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES:

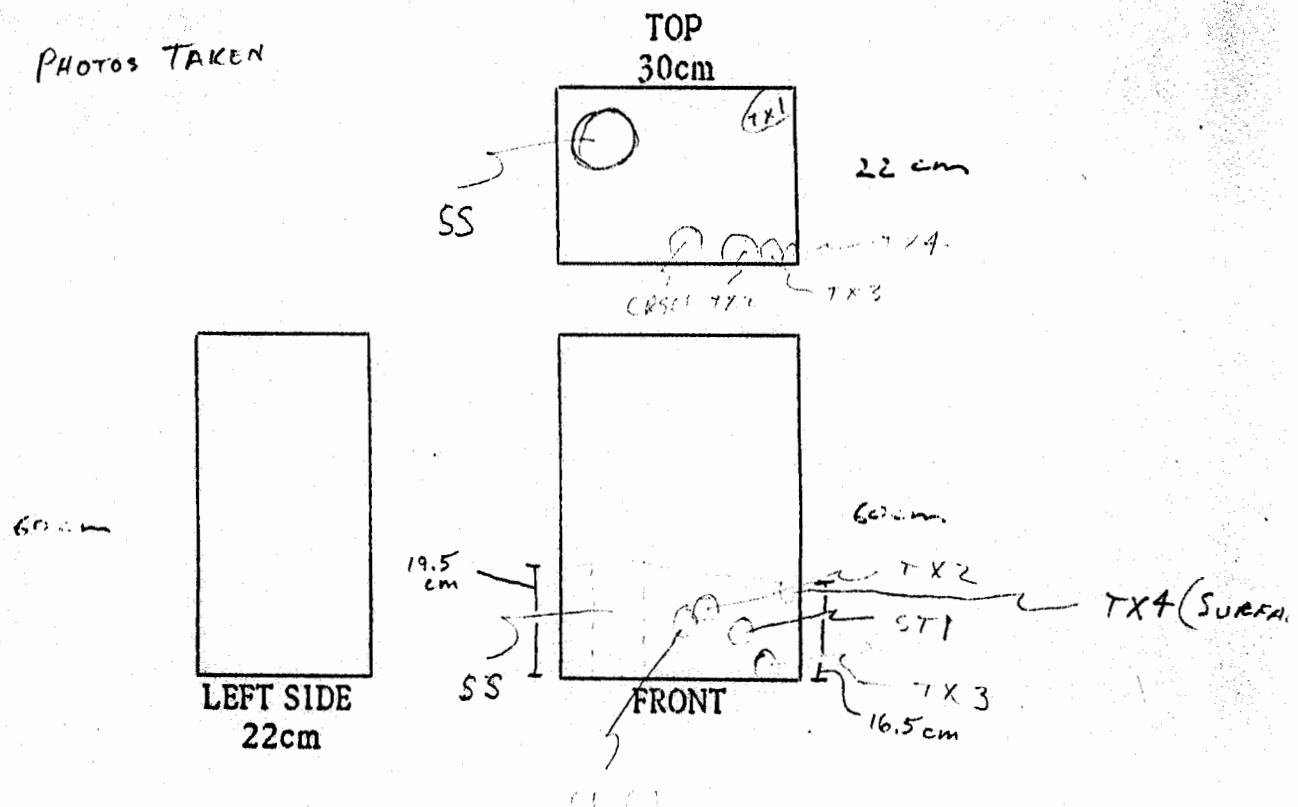
COMMENTS: FRONT OF BOX CORE UNEXPECTEDLY FELL OFF ALLOWING A MASSIVE DEBRIS AVALANCHE / FLOW TO OCCUR. NO SLAB SAMPLE WAS TAKEN - OTHER SAMPLE LOCATIONS ARE APPROXIMATE.

## CORE LOCATION

| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | 1433 | | 1504 |
| LAT: | | | | |
| LON: | | | | |

## BOX CORE INFORMATION

PHOTOS TAKEN



# SAMPLE LOG

LOCATOR: F11-91-HW SAMPLE NO: 8-B1

STATION NO: 8

Box Core

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| SS (START SEC) (8cm I.D) | 0-19.5cm | LEE | USGS | | 11-18-91 |
| ST1 (3.6cm ID) | ~9cm | " | " | | " |
| TX1 WHIRL-PAK | 0-1cm SURFACE | HAMPTON | " | TX | " |
| TX2 WHIRL-PAK | ~6cm | " | " | TX | " |
| TX3 WHIRL-PAK | ~16.5cm BOTTOM | " | " | TX | " |
| TX4 WHIRL-PAK | ~0-3cm SURFACE? VARIABLE SPOTS | " | " | TX | " |
| BULK | REMAINING | LEE | " | | " |
| CRSC1 | ~7cm | WINTERS | " | CRSC | " |
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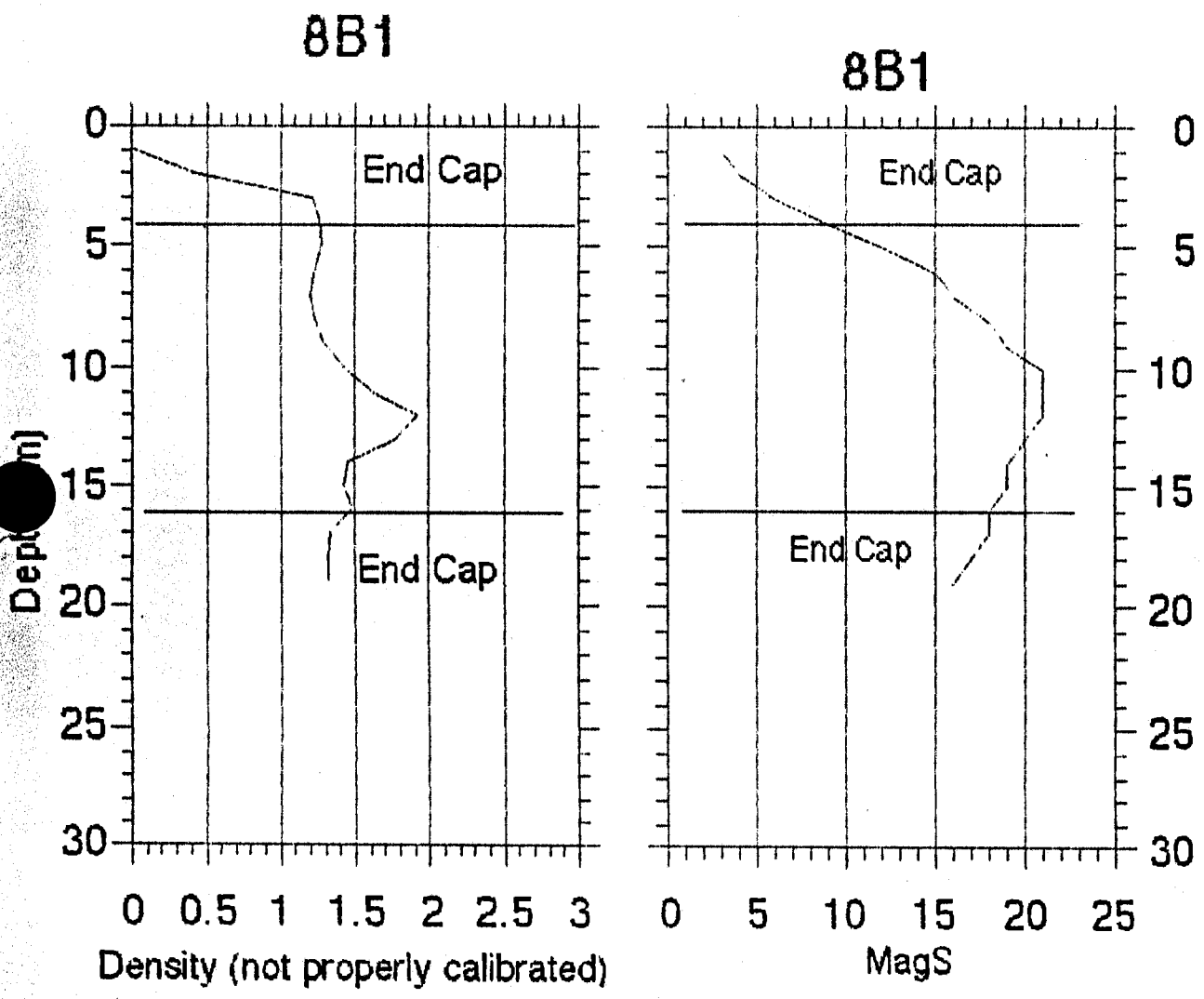
NEBCO


8B1
End Cap
End Cap
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
8B1
End Cap
End Cap
0 5 10 15 20 25
MagS

**F11-91-HW**
R/V FARNELLA

STATION/CORE ID: 10 B1 APPROX. LOCATION:
DATE: 11/19/91
WEATHER: WATER DEPTH(m):
RECORDED BY: NAVIGATION:
PROCESSORS: WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES:

COMMENTS: strange hit – tension jerked ⇒ slid on slope? or jerked by ship swell?
pullout ~ 2.2t

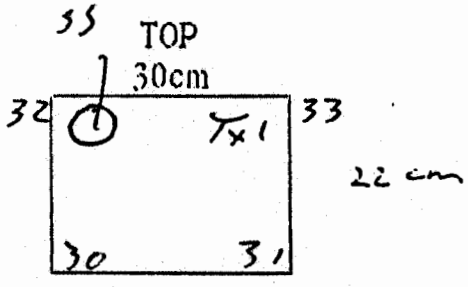
## CORE LOCATION

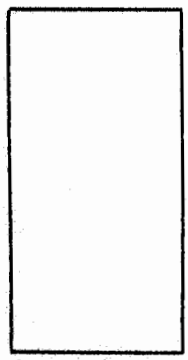
| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | | | |
| LAT: | | | | |
| LON: | | | | |

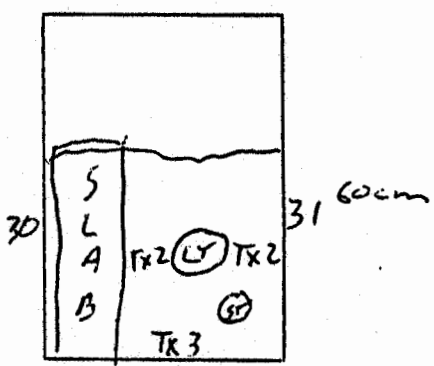
## BOX CORE INFORMATION

Recovery 30-33cm

Tx 1 surf
Tx 2 16
Tx 3 30 (6tm)
LT 16
*ST 23
+SS 0-31
0-1 Bulk
1-31 Bulk
0-30 CSRS
60cm





LEFT SIDE
22cm



FRONT

* ST badly disturbed
+ SS pounded in w/ hammer

# SAMPLE LOG

LOCATOR: F11-91-HW SAMPLE NO: 10 B1

STATION NO: 10

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| | 0-1 | Hampton | USGS | Tx 1 | 11/19 |
| | 16 | | | Tx 2 | |
| | 30 btm | | | Tx 3 | |
| | 0-31 | Lee | | SS | |
| | 16 LT | | | LT | |
| | 23 ST | | | ST | |
| | 0-1 | | | BULK | |
| | 1-31 | | | BULK | |
| | 0-30 | WINTERS | | CSRS | |
| | 0-29 | Lee | | SLAB | |
| | | | | | |
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NEBCO

10B1

B1 SLAB (AND A FINE SLAB IT IS)

0 → 2mm : FINE (~FINE-MED SAND) CAP LAYER AT SEA FLOOR

~2mm → ~2cm : COARSE (~1-2mm MAX) LAYER.

2cm → 4.3cm : FINE (~FINE-MED SAND) LAYER

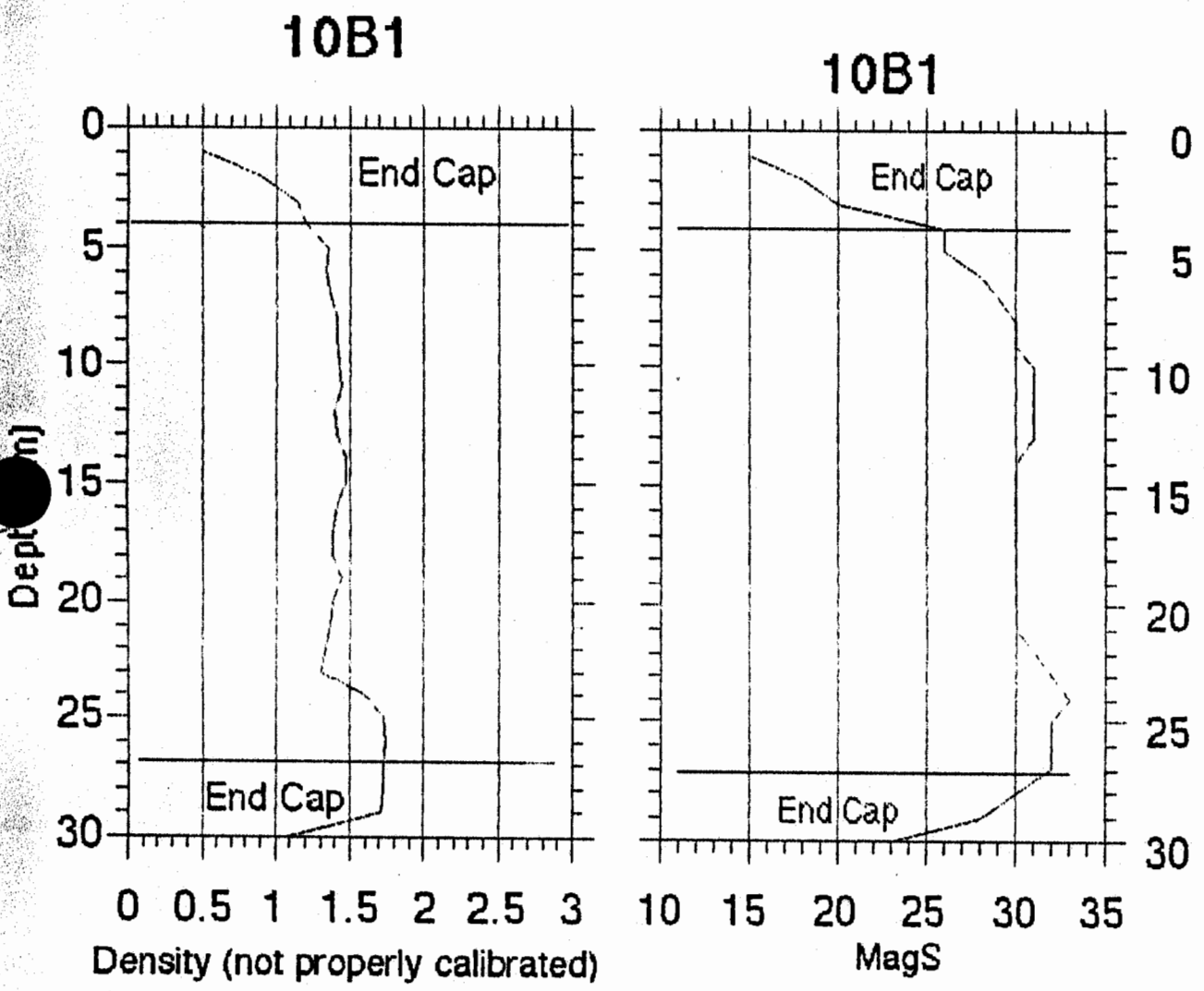
4.3 → 15.5cm : GRAVEL LAYER, GRADES TO ~COARSE SAND IN UPPER 3 cm.

15.5cm → 17cm : ~MED SAND, PERHAPS GRADATIONAL DOWNWARD TO ↓

17.5cm → 27cm : GRAVEL LAYER (MAY BE V. COARSE SAND)

27cm → 29cm : MED TO FINE SAND

*NOTES* OCCASIONAL shell/coral debris, white color, speckled THROUGHOUT - NOT RESTRICTED to A specific Layer & some MAY HAVE been dragged By SPATULA during smoothing process


10B1
End Cap
End Cap
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
10B1
End Cap
End Cap
0
5
10
15
20
25
30
10 15 20 25 30 35
MagS

**F11-91-HW**
R/V FARNELLA

STATION/CORE ID: 11-BZ APPROX. LOCATION:
DATE: 11/19
WEATHER: WATER DEPTH(m):
RECORDED BY: NAVIGATION:
PROCESSORS: WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES:

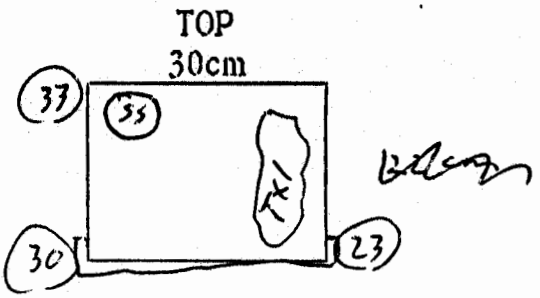
COMMENTS:

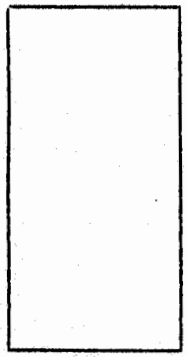
## CORE LOCATION

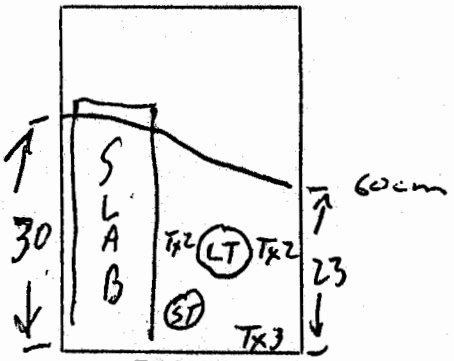
| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | | | |
| LAT: | | | | |
| LON: | | | | |

## BOX CORE INFORMATION

Recovery 33 → 27 cm
SS core pounded in w/ hammer
SS: 0-32
LT: 13 } pounded in w/ hammer
ST: 20 }
Tx 1 - surf
Tx 2: 13
Tx 3: 23 (6 tm)
Surf: bulk
1-6 tm: bulk 60 cm





LEFT SIDE
22cm



FRONT

# SAMPLE LOG

LOCATOR: F11-91-Hw SAMPLE NO: 11-B2

STATION NO: 11

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| Box | Surf | Hampton | USGS | Tx 1 | 11/19 |
| | 13 | | | Tx 2 | |
| | 23 (6tm) | | | Tx 3 | |
| | 13 | Lee | | LT | |
| | 20 | | | ST | |
| | 0-32 | | | SS | |
| | surf | | | bulk | |
| | 1-6tm | | | bulk | |
| | 0-30 | | | slab | |
| | 0-30 Trimmings | Winters | | ~~USGS~~ Consol. | |
| | | | | | |
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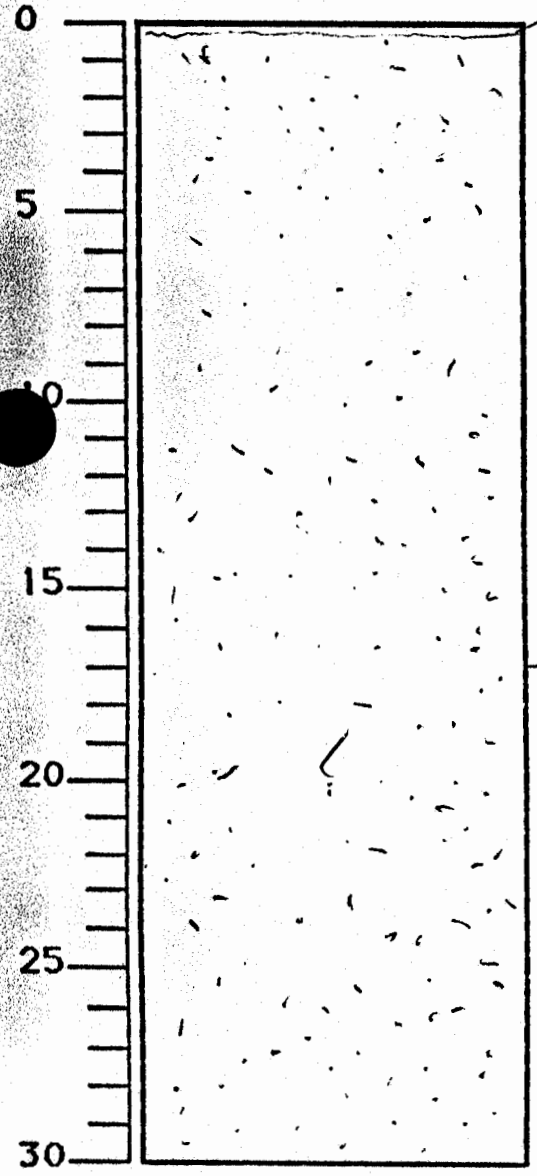
NEBCO

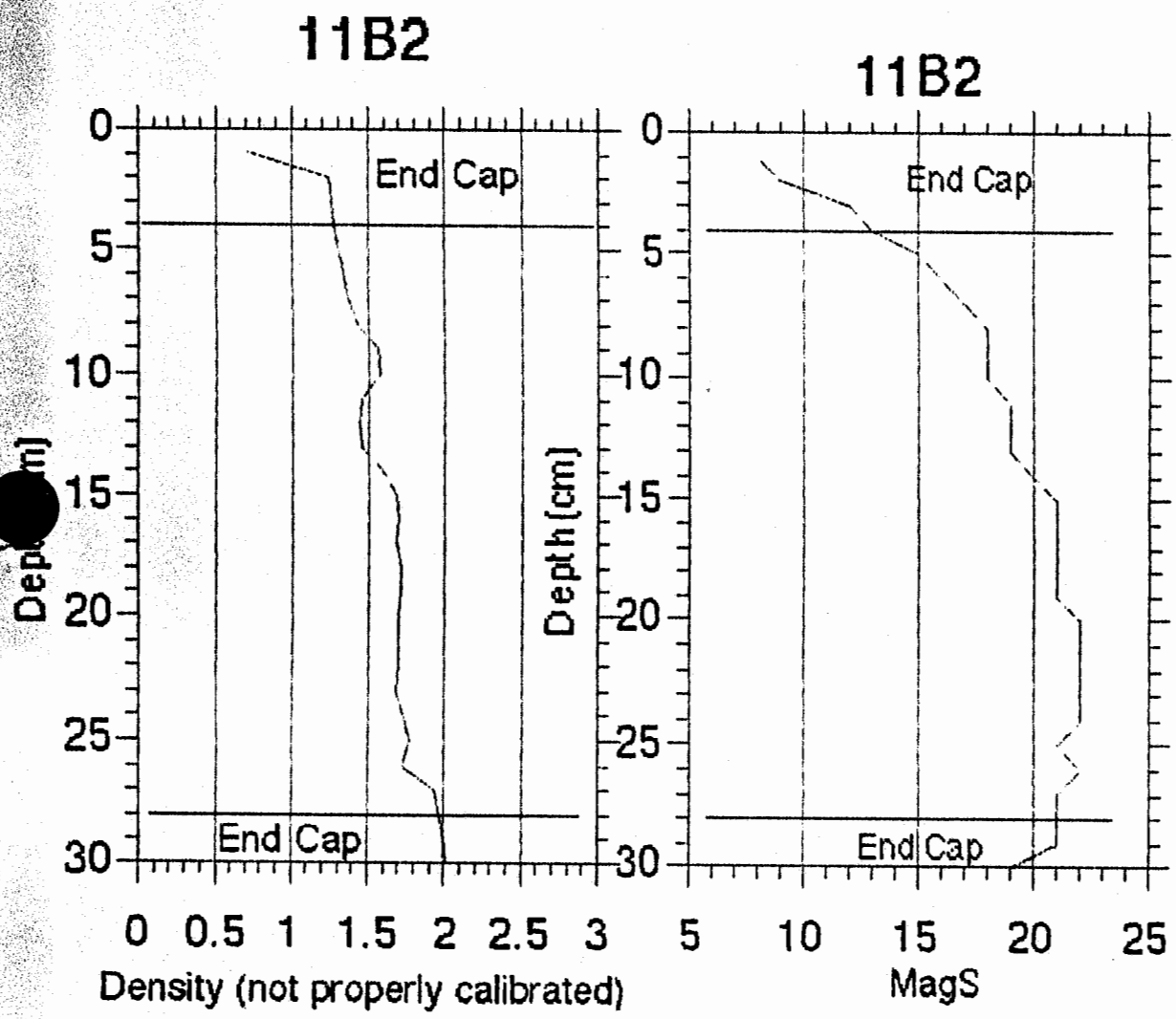
# F11-91-HW
# Box Core Visual Description Form

Core ID: 11 B 2 Observer: ME (MIKE T)




## Description

- 30.5 cm total
- NO STRUCTURE
- COARSE ANGULAR BLACK SAND, NO VISIBLE STRUCTURE.
- PART OF BOX SHOWS THIN ~.1 → .5cm LAYER OF * FINE TO VERY FINE SAND. CORE MAY HAVE BEEN WASHED AT SURFACE MOVING FINES TO ONE SIDE.


11B2
11B2
End Cap
End Cap
End Cap
End Cap
Depth (cm)
Depth (cm)
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
5 10 15 20 25
MagS

**F11-91-HW**
**R/V FARNELLA**

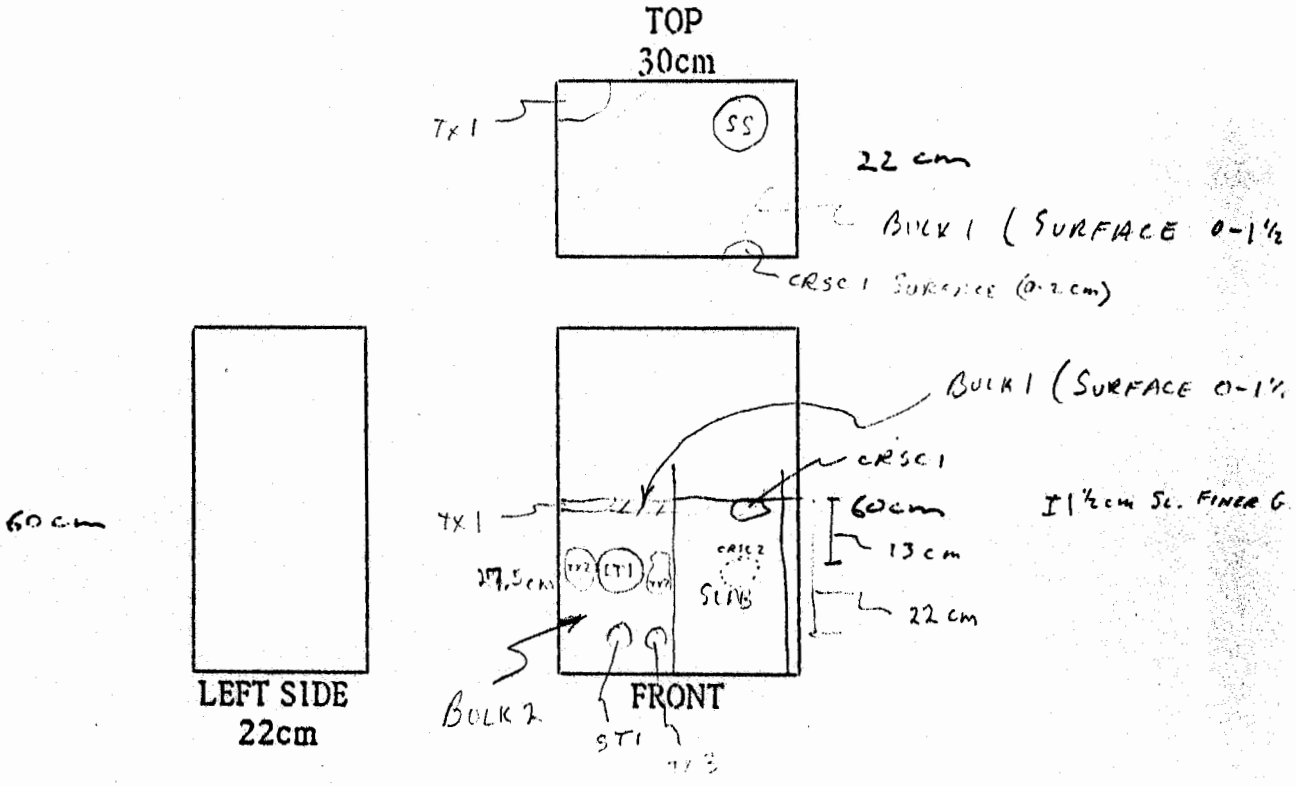
STATION/CORE ID: 12-B1 APPROX. LOCATION: OFF KILAUEA
DATE: 11-19-91
WEATHER: GORGEOUS - SOME SWELL WATER DEPTH(m):
RECORDED BY: WJW NAVIGATION:
PROCESSORS: WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES: HAMMERED [illegible]

COMMENTS:

## CORE LOCATION

| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | | | ~1230 |
| LAT: | | | | |
| LON: | | | | |

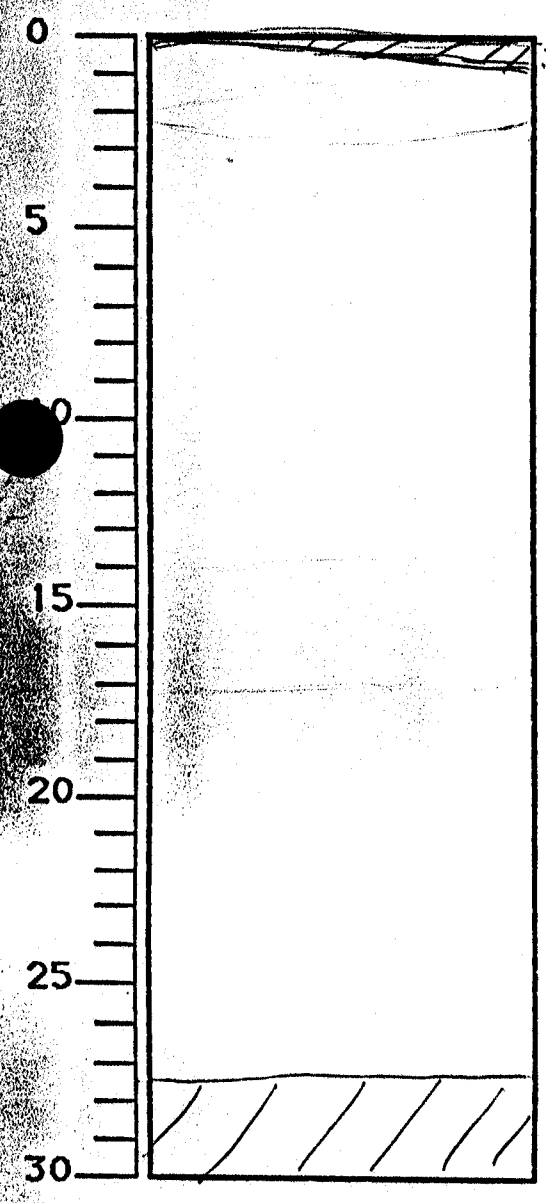
## BOX CORE INFORMATION



# F11-91-HW
# Box Core Visual Description Form

Core ID: 12-B1 Observer: WJW

## Description




VOID

FINER GRAINED

COARSE GRAINED

V. ANGULAR

MASSIVE BLACK VF – COARSE SAND SIZED

FINER BEDDING VOLCANIC GLASSY SHARDS; SHARDS

ARE DARK BRN INDIVIDUALLY, TYPICALLY

FINER BEDDING FLAT & REFLECTIVE; SAMPLE DRAINED

DURING TRIMMING;

VOID

# SAMPLE LOG

LOCATOR: F11-91-HW

SAMPLE NO: 12-B1

STATION NO: 12

Box Core

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| SLAB | 0-27 cm | LEE | USGS | | 11-19-91 |
| 33 TUBE | 0-26 cm | LEE | " | STRAT-SED | |
| TX 1 | 0-1.5 cm | HAMPTON | " | TX | |
| TX 2 | ~13 cm | " | " | TX | |
| TX 3 | ~22 cm | " | " | TX | |
| LT 1 | ~13 cm | LEE | " | | |
| ST 1 | ~22 cm | " | " | | |
| CRSC1 | 0-2 cm | WINTERS | " | | |
| CRSC 2 | ~13 cm | " | " | | |
| BULK1 | 0-1.5 cm | LEE | " | | |
| BULK 2 | REMAINDER 1.5-27 cm | " | " | | |
| | | | | | |
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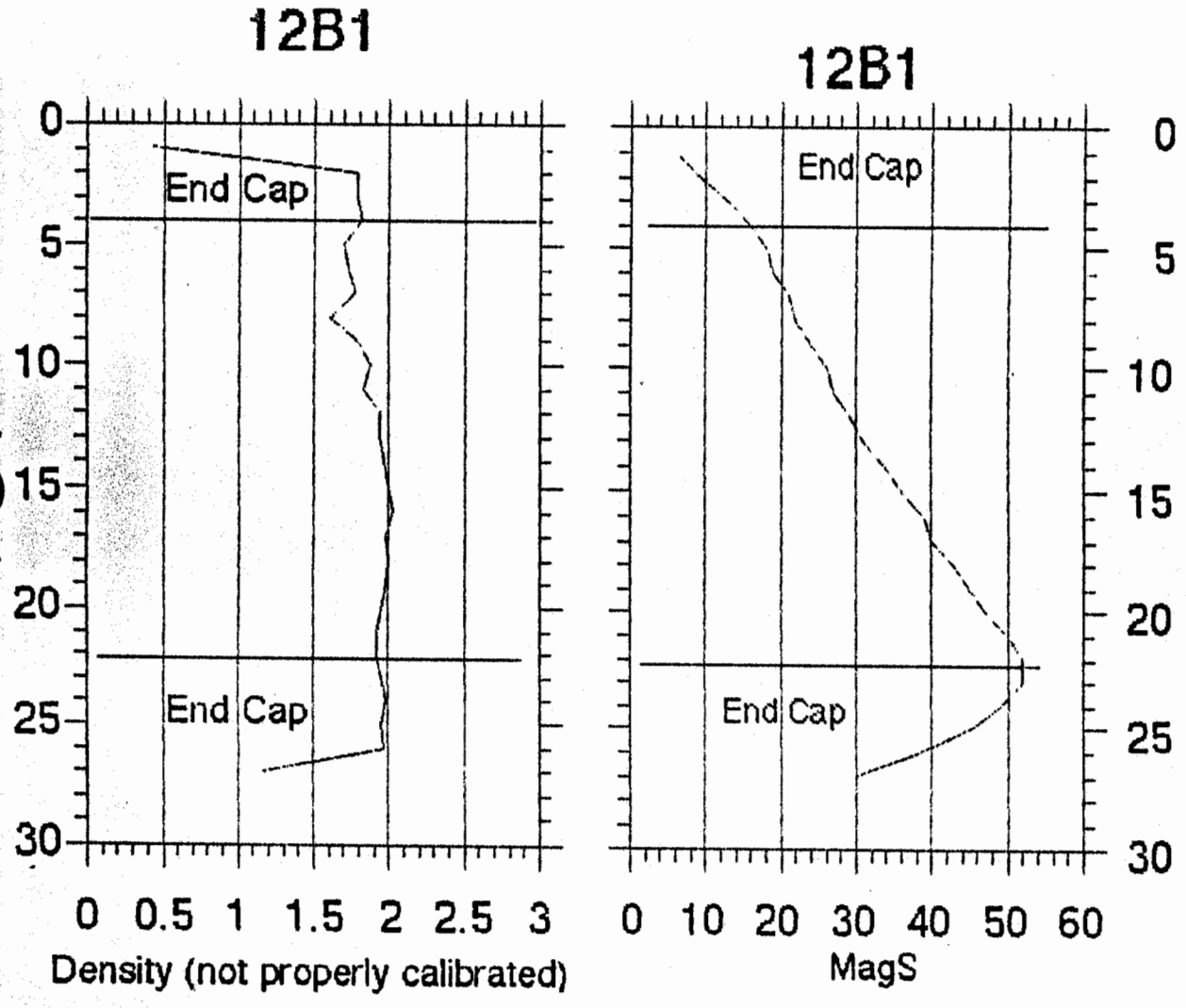
NEBCO


12B1
End Cap
End Cap
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
12B1
End Cap
End Cap
0 10 20 30 40 50 60
MagS

**F11-91-HW**
**R/V FARNELLA**

STATION/CORE ID: 13-B1 APPROX. LOCATION: OFF KILAUEA
DATE: 11-19-91
WEATHER: V. NICE ; SL. SWELLS WATER DEPTH(m): 2630
RECORDED BY: WJW NAVIGATION:
PROCESSORS: HJL & Co. WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES: TUBES HAMMERED IN;

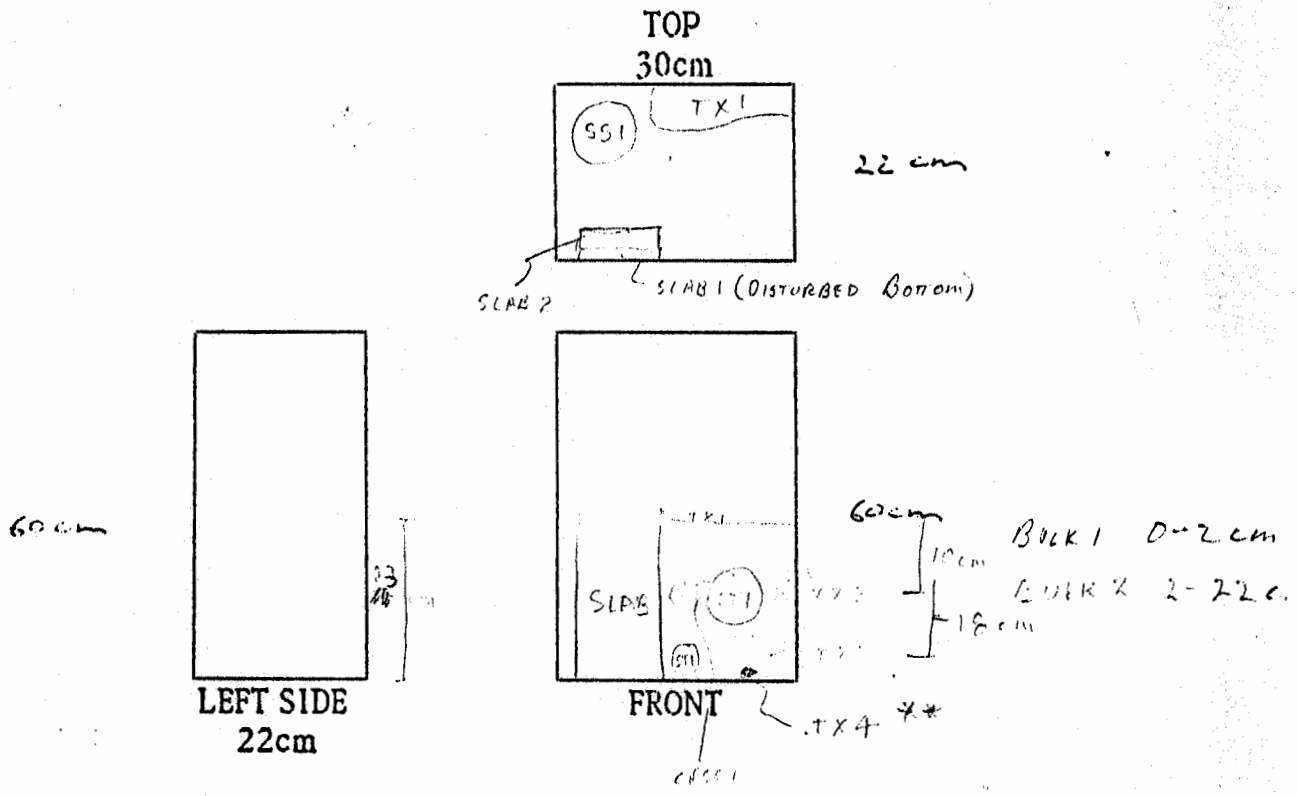
COMMENTS:

## CORE LOCATION

| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | | | ~ 1500 ? |
| LAT: | | | | |
| LON: | | | | |

## BOX CORE INFORMATION

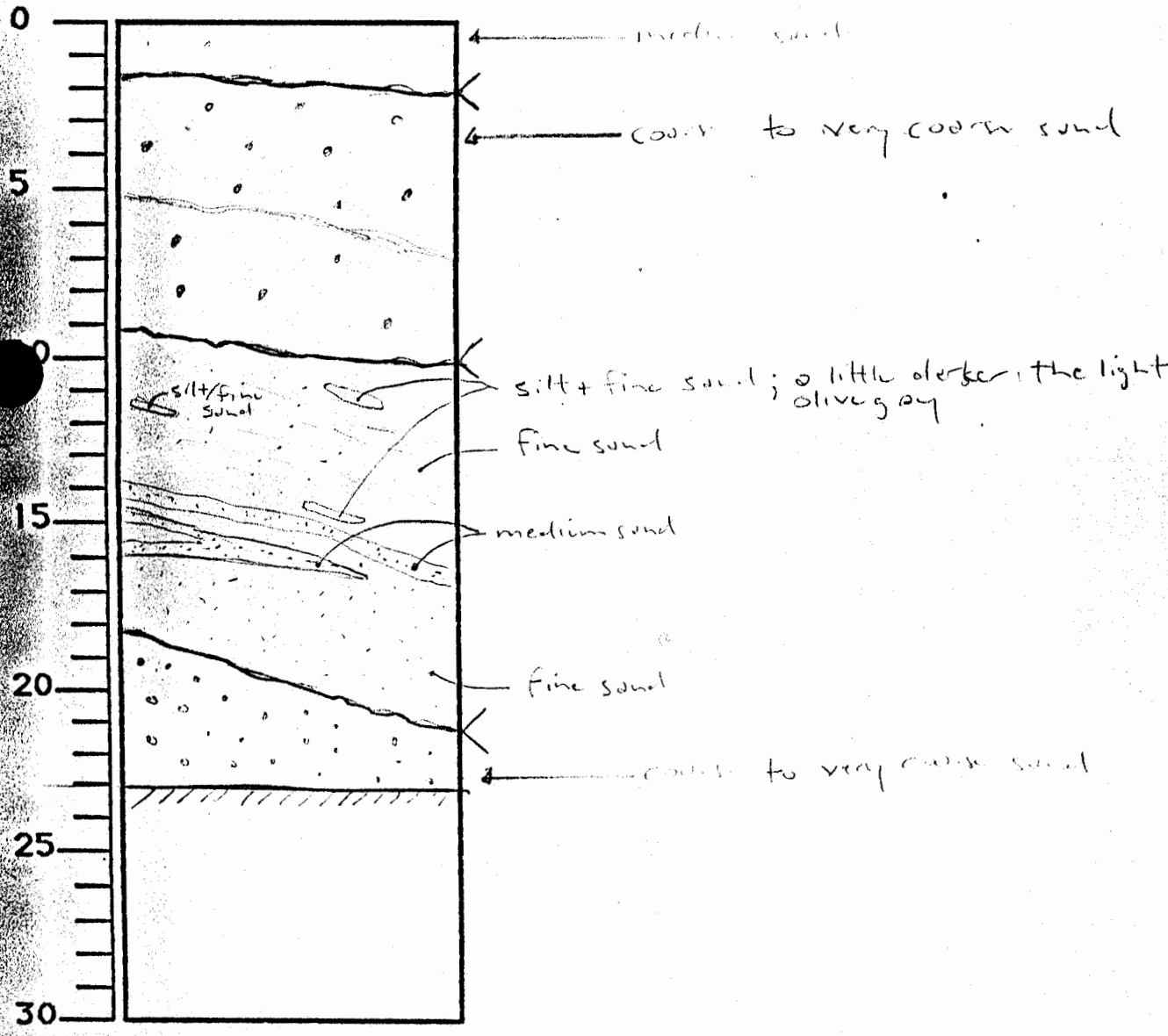
TX1 0-1 cm



# F11-91-HW
# Box Core Visual Description Form

**Core ID:** B-B1 **Observer:** GL, WGM, BW

## Description



# SAMPLE LOG

LOCATOR: F11-91-HW

SAMPLE NO: 13-B1

STATION NO: 13

Box Core

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| SLAB2 | 0-23cm | LEE | USGS | | 11-19-91 |
| SS1 | 0-20cm VERT. | " | " | STRAT-SED | " |
| LT1 | @ 10cm HORIZ. | " | " | | " |
| ST1 | @ 18cm HORIZ. | " | " | | " |
| TX1 | 0-1cm SURFACE | HAMPTON | " | TX | " |
| TX2 | @ 10cm | " | " | TX | " |
| TX3 | @ 16cm | " | " | TX | " |
| TX4 | @ 20cm | " | " | TX | " |
| CRSC1 | @ 10cm | WINTERS | " | | " |
| SLAB1 | 0-23cm | " | " | | " |
| TRIM1 | TRIMMINGS FROM SLAB | LEE | " | | " |
| TRIM2 | TRIMMINGS FROM SLAB | " | " | | " |
| BULK1 | 0-1cm | " | " | | " |
| BULK2 | 1-23cm | " | " | | " |
| | | | | | |
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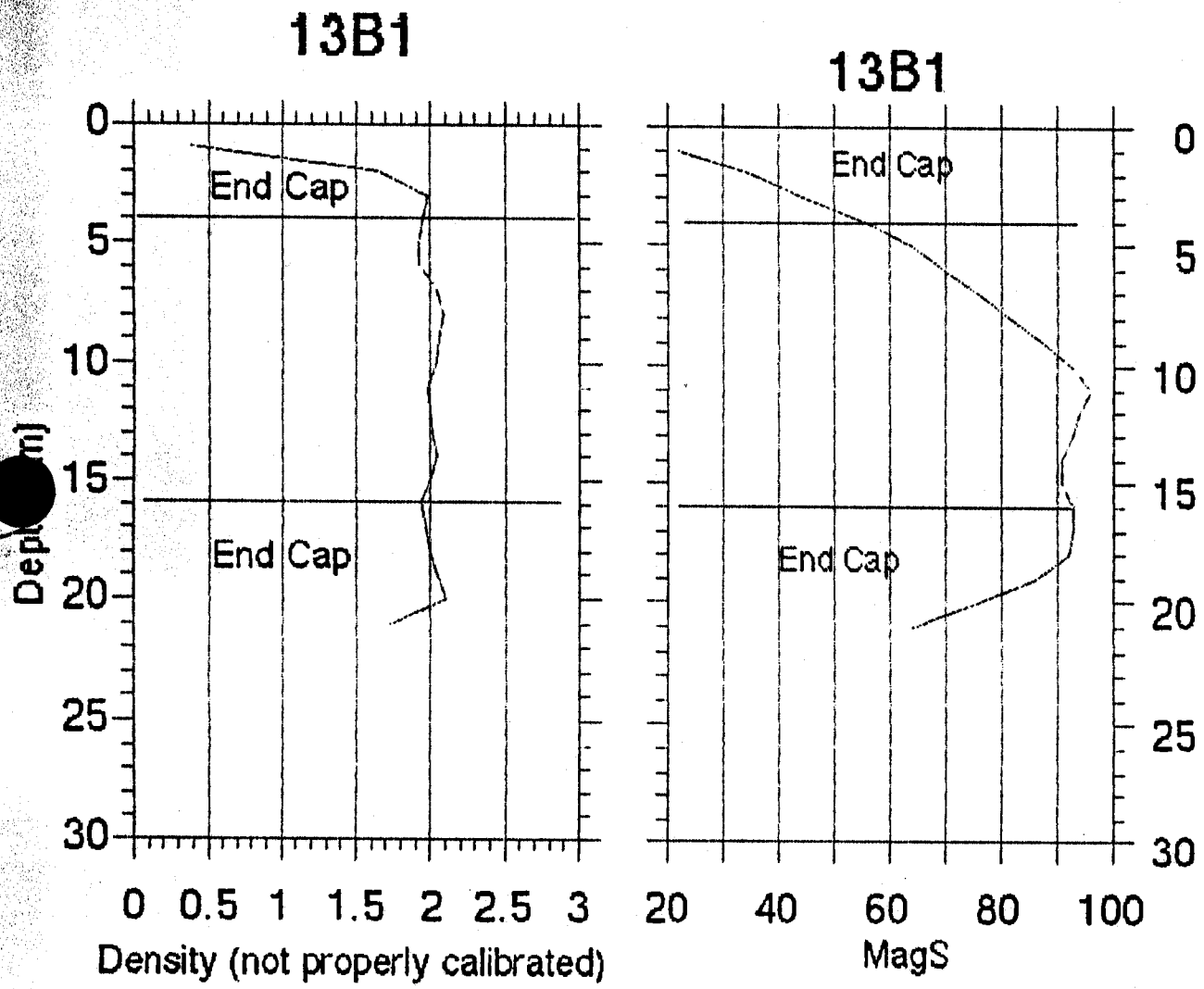
NEBCO


13B1
End Cap
End Cap
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
13B1
End Cap
End Cap
20 40 60 80 100
MagS

**F11-91-HW**
**R/V FARNELLA**

STATION/CORE ID: 18 - B1 APPROX. LOCATION: OFF KILAUEA
DATE: 11-20-91 WED
WEATHER: SL. SWELL, V. NICE WATER DEPTH(m):
RECORDED BY: WJW NAVIGATION:
PROCESSORS: HJL, BS, WJW, GD WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES:

COMMENTS: BASE LATCH FOR NO VISIBLE ON ONE SIDE - BOX CORE HAMMERED TO TRY TO UNCOVER ROD; [illegible] V. COARSE AT BASE (UP TO [illegible])

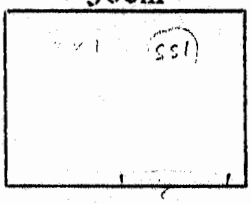
## CORE LOCATION

| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | | | |
| LAT: | | | | |
| LON: | | | | |

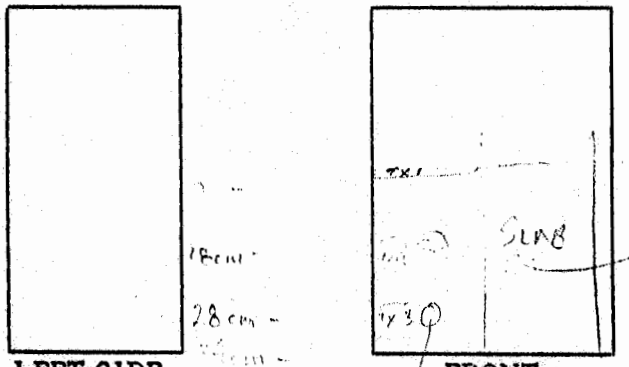
## BOX CORE INFORMATION

TX1 0-1 cm SURFACE
2 18 cm
3 28 cm

TOP
30cm




22 cm




LEFT SIDE
22cm

FRONT
ST1

# SAMPLE LOG

LOCATOR: F11-91-HW

SAMPLE NO: 18-B1

STATION NO: 18

Box Core

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| TX1 | SURFACE 0-1 cm | HAMPTON | USGS | TX | 11-20-91 |
| TX2 | @ 18 cm | " | " | TX | " |
| TX3 | @ 28 cm | " | " | TX | " |
| SS1 | 0-31.5 cm | LEE | " | STRAT-SED | " |
| SLAB | 0-27.5 cm (PHOTOGRAPHED) | " | " | | " |
| LT1 | @ 18 cm | " | " | | " |
| ST1 | @ 28 cm | " | " | | " |
| COBBLE1 | @ ~18 cm | " | " | | " |
| CRSC1 | ~ 28 cm | WINTERS | " | CRSC | " |
| | | | | | |
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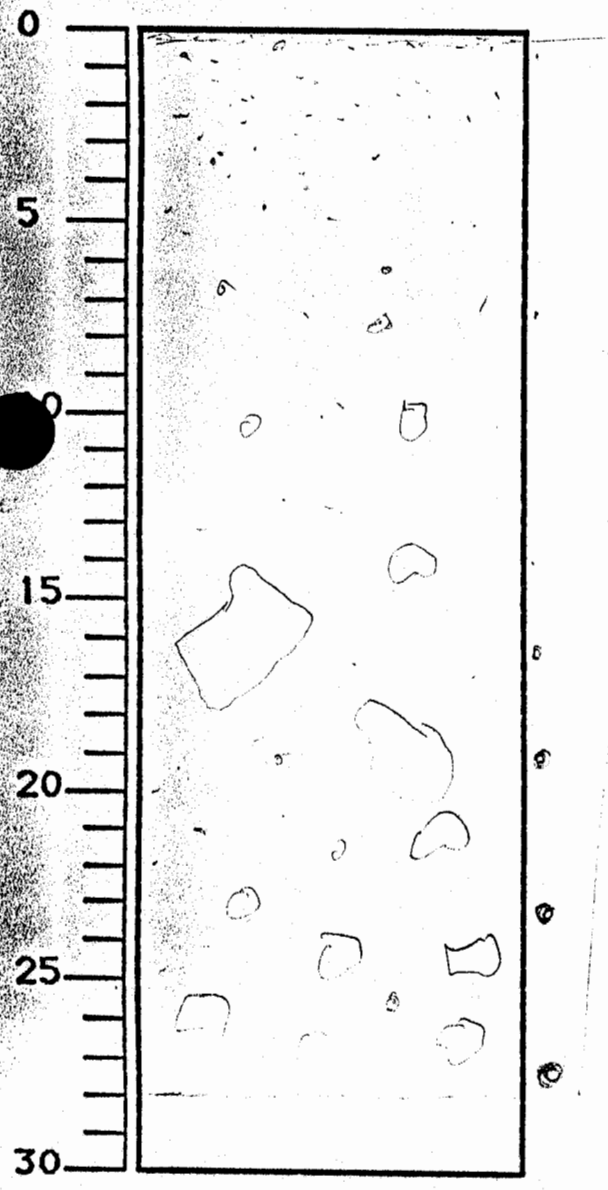
NEBCO

# F11-91-HW
# Box Core Visual Description Form

Core ID: F11-91-HW-18-P1 Observer: [illegible]

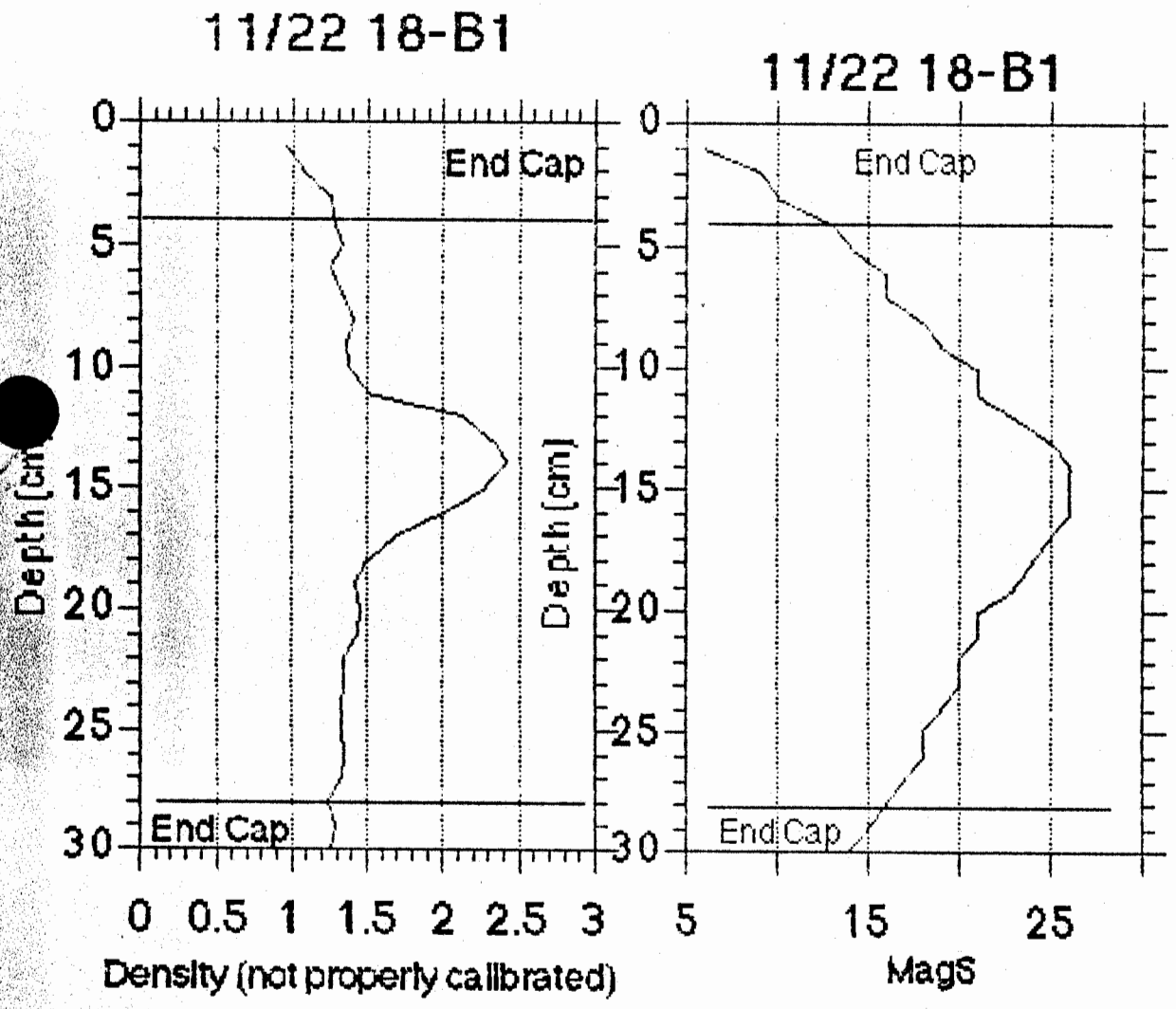



## Description

→ Thin mud layer

Fining upward sequence of coarse sand and gravels + some cobbles.

Very fresh volcanic material.


11/22 18-B1
End Cap
End Cap
Depth [cm]
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
11/22 18-B1
End Cap
End Cap
Depth [cm]
5 15 25
MagS

**F11-91-HW**
**R/V FARNELLA**

STATION/CORE ID: 21-B1 APPROX. LOCATION: OFF KILAUEA
DATE: 11-21-91
WEATHER: [illegible] WATER DEPTH(m): 2746
RECORDED BY: WJW NAVIGATION:
PROCESSORS: NEL & Co WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES:

COMMENTS: FINE GR. AT SURFACE

## CORE LOCATION

| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | ~1800 | [illegible] | | [illegible] |
| LAT: | | | | |
| LON: | | | | |

## BOX CORE INFORMATION

Buried Surface 0-1cm

TOP
30cm

0-35.5 cm

22 cm

SSI

0-[illegible]cm

60 cm

LEFT SIDE
22cm

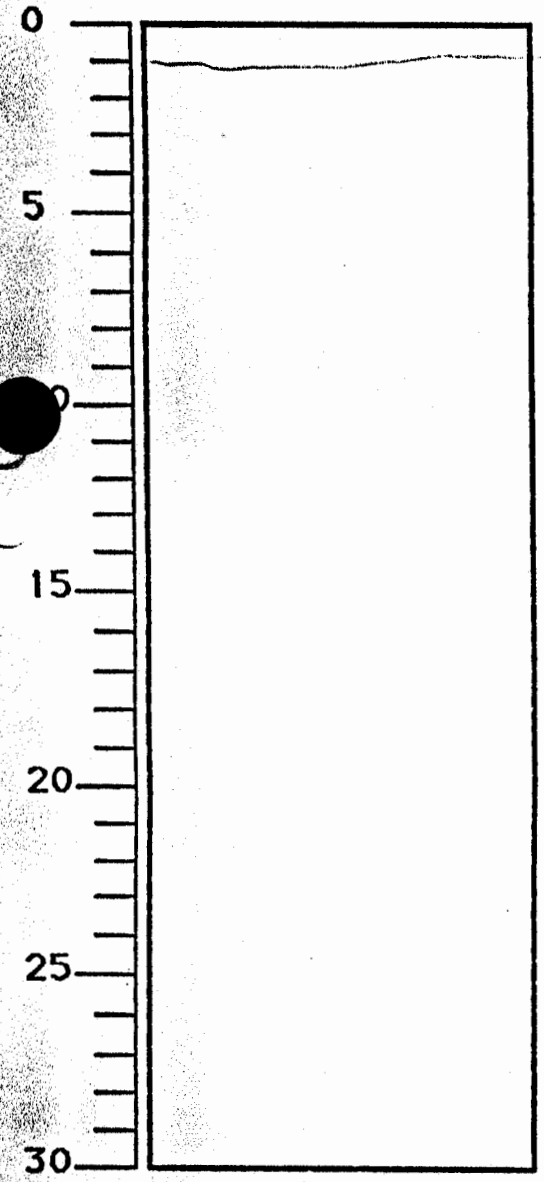
60cm

FRONT

# F11-91-HW
# Box Core Visual Description Form

Core ID: 21-B1 Observer: WJW

## Description




LIGHTER, FINE GRAINED SAND

MASSIVE BLACK ANGULAR VF - COARSE GRAINED VOLCANIC SAND

# SAMPLE LOG

LOCATOR: F11-91-HW

SAMPLE NO: 21-B1

STATION NO: 21-[illegible]

Box Core

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| SS1 | 0 - 33.5cm | LEE | USGS | | 11-21-91 |
| TX1 | 0-1 cm | HAMPTON | " | TX | " |
| TX2 | @ 16 cm | " | " | TX | " |
| TX3 | @ 24 cm | " | " | TX | " |
| LT1 | @ 16 cm | LEE | " | | " |
| ST1 | @ 24 cm | " | " | | " |
| SLAB | 0-30 cm | " | " | | " |
| CRSC1 | @ 16 cm | WINTERS | " | CRSC | " |
| | | | | | |
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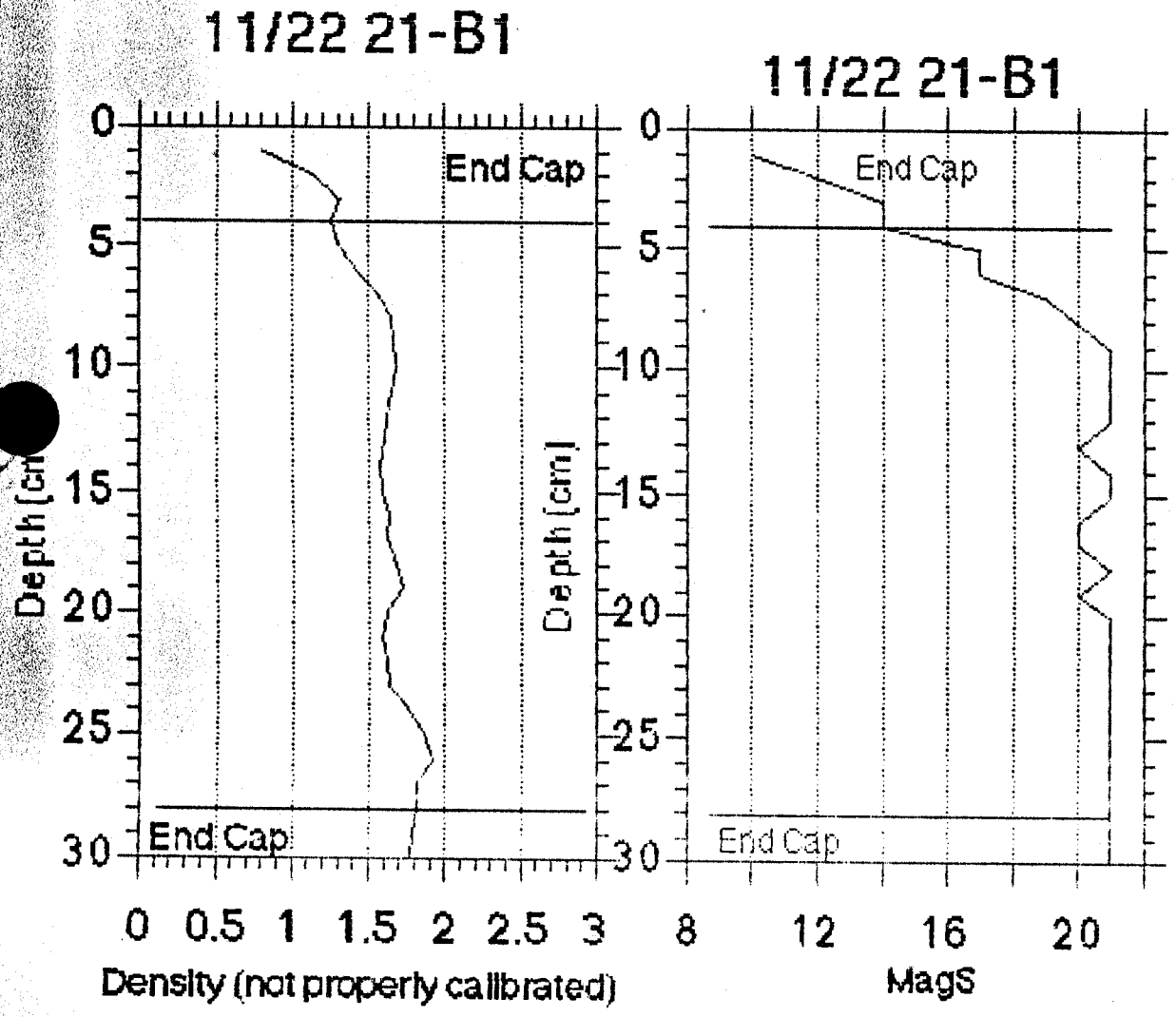
NEBCO


11/22 21-B1
End Cap
End Cap
Depth [cm]
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
11/22 21-B1
End Cap
End Cap
Depth [cm]
8 12 16 20
MagS

**F11-91-HW**
R/V FARNELLA

STATION/CORE ID: 22-BC1 APPROX. LOCATION: Off Kilauea
DATE: 11-21-91
WEATHER: _____ WATER DEPTH(m): _____
RECORDED BY: LITU NAVIGATION: _____
PROCESSORS: LITU & CO WINCH: _____
MISC. EQUIPMENT: _____
MISC.PROCEDURES: _____

COMMENTS: _____

## CORE LOCATION

| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | | | 2310 |
| LAT: | | | | |
| LON: | | | | |

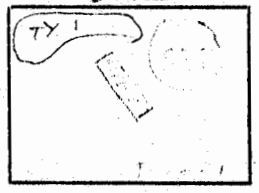
## BOX CORE INFORMATION

TY 1 SURFACE 0-1cm

2 1 - 2.6cm
3 2.6 - 40cm

1 GALLON PAK BAG W/ LAMINA @ 24 cm

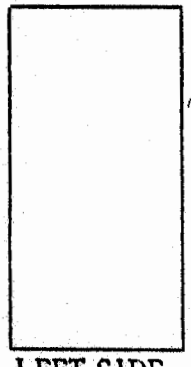
TOP
30cm



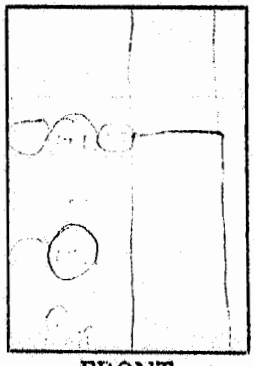

0-40cm

22 cm
SLAB 2 SERIES OF LAMINATIONS

60 cm



LEFT SIDE
22cm



FRONT

60cm

# SAMPLE LOG

LOCATOR: F11-91-HW SAMPLE NO: 22-B1

STATION NO: 22

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| | 0-38 | Lee | USGS | Slab 1 | 11/22 |
| | Diagonal 0-28 | | | Slab 2 | |
| | 10 | | | LT 1 | |
| | 26 | | | LT 2 | |
| | 34 | | | ST | |
| | SURF | | | BULK 1 | |
| | 1-26 | | | BULK 2 | |
| | 26-40 | | | BULK 3 | |
| | 11 | WINTERS | | CRSC 1 | |
| | SURF | HAMPTON | | Tx 1 | |
| | 10 | | | Tx 2 | |
| | 26 | | | Tx 3 | |
| | 40 (BTM) | | | Tx 4 | |
| | 24 | | | Tx 5 | |
| | 0-37 | Lee | | SS | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

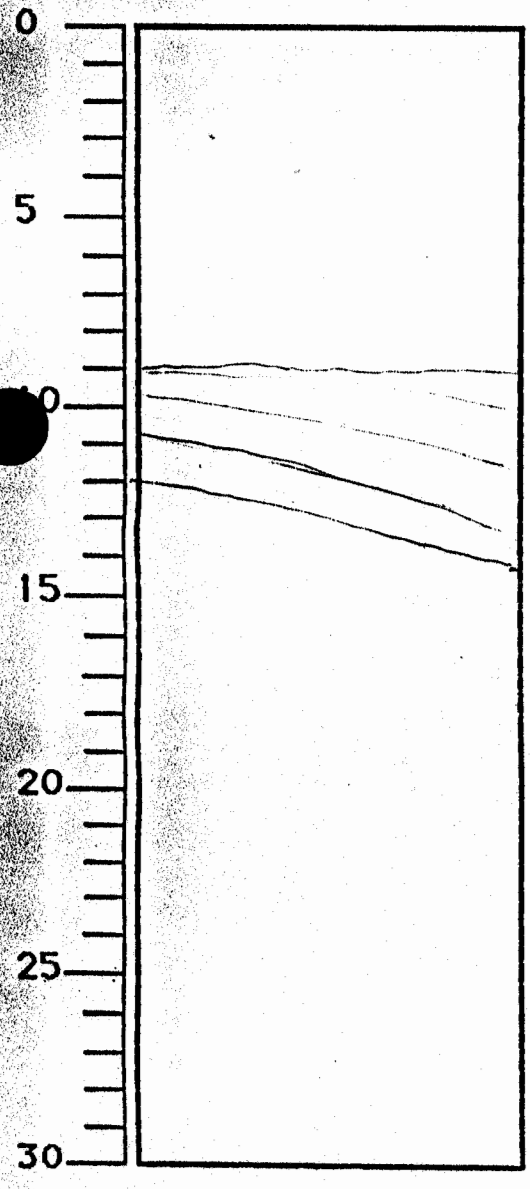
NEBCO

# F11-91-HW
# Box Core Visual Description Form

F11-91-HW

Core ID: 22-B-1 Observer: Hampton

SLAB 1
(PARALLEL TO REMOVABLE FACE OF BOX CORE)




## Description

0-9 cm:
COARSE TO VERY COARSE BLACK SAND. SMALL AMOUNT OF INTERMIXED BROWN MUD IN UPPER 1 cm. & LOWER 1 cm (8-9 cm)

9-14 cm:
LAMINATED COARSE - V. COARSE BLACK SAND & MUDDY COARSE SAND. LAMINA 2-10 mm THICK. INCLINED LOWER CONTACT. LAMINA BECOME PROGRESSIVELY MORE INCLINED WITH DEPTH.

12-31 cm
COARSE SAND - (~3 mm) GRAVEL, BLACK. PERHAPS SLIGHTLY FINER GRAINED, 21-25 cm.
GRADATIONAL TO:

31-36 cm.
MED. - COARSE BLACK SAND.

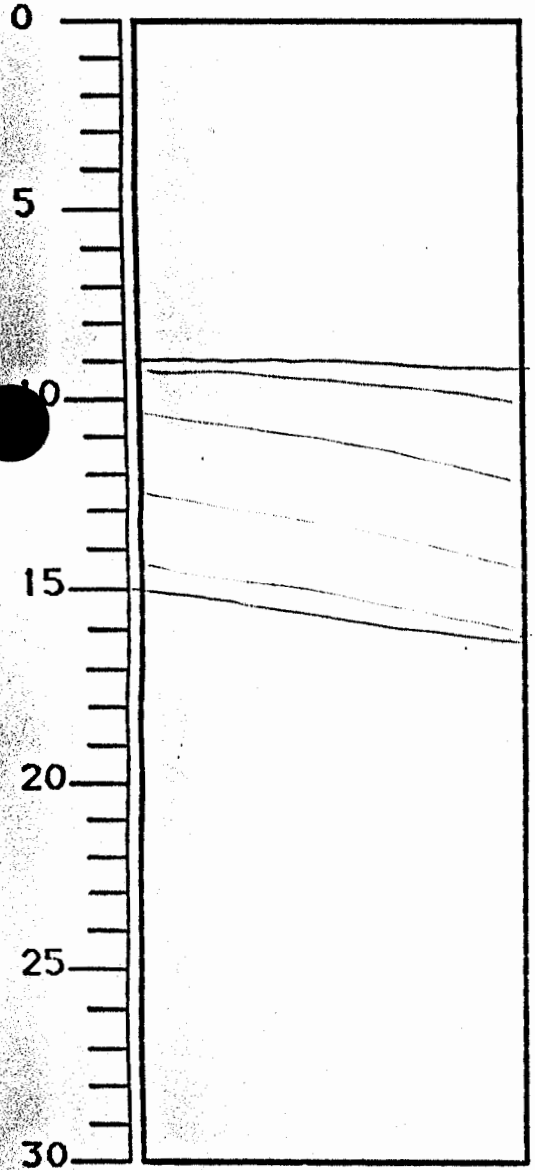
36-38 cm.
SLIGHTLY COARSER THAN ABOVE.

# F11-91-HW
# Box Core Visual Description Form

F11-91-HW

Core ID: 22-B-1 Observer: _____

SLAB 2
(AT 45° TO REMOVABLE FACE OF BOX CORE)

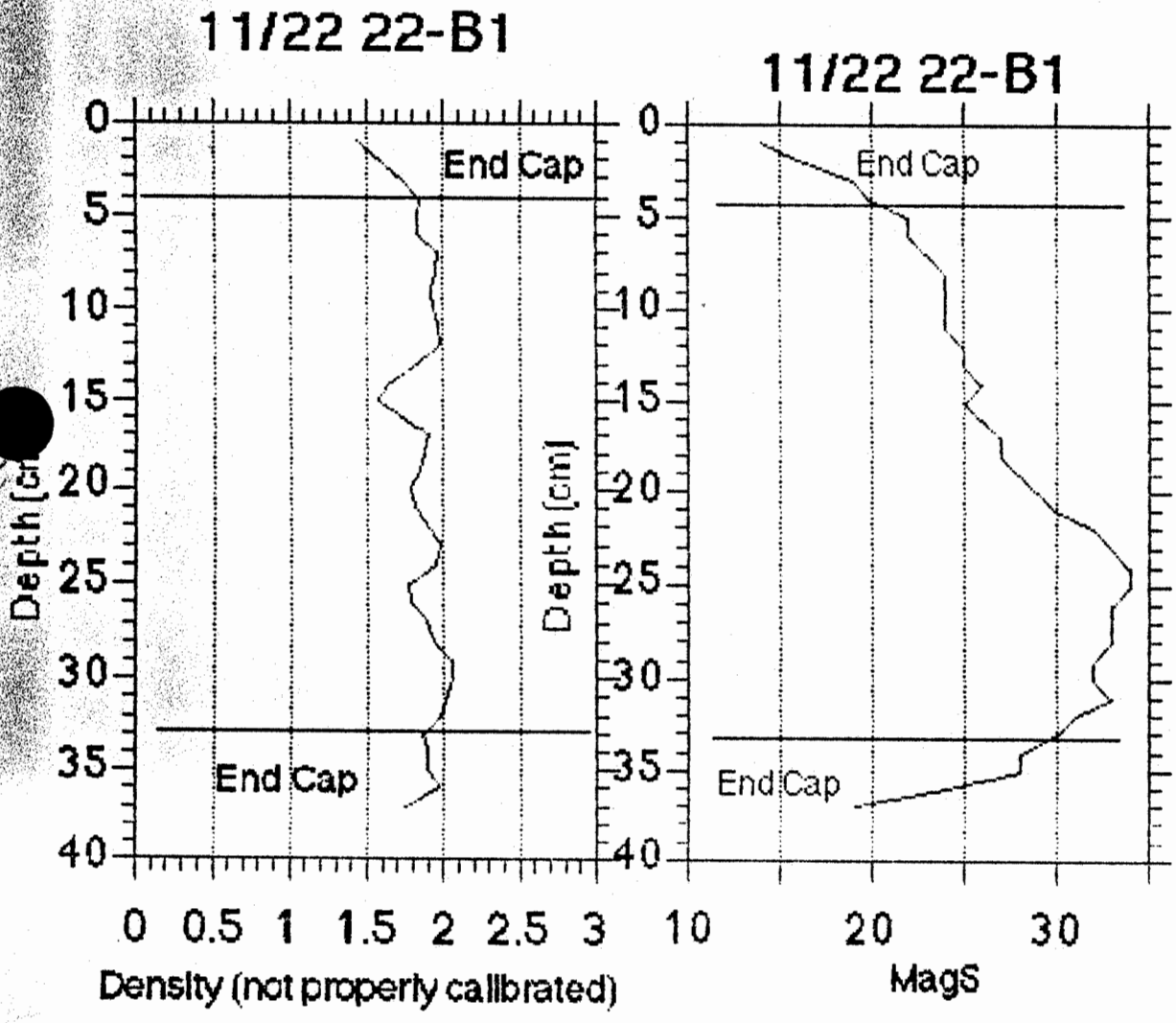



## Description

0-9cm: BLACK COARSE SAND TO GRAVEL. SLIGHTLY FINER, 2½-6 cm.

9-15 cm:
LAMINATED BLACK COARSE SAND & BROWN MUDDY SAND. LAMINAE 2-10mm THICK. SLIGHTLY INCLINED LOWER CONTACT.

15-29 cm:
BLACK COARSE SAND TO GRAVEL (MAX. SIZE 7mm). BROWN MUDDY SAND LENS, 24-25.


11/22 22-B1
End Cap
End Cap
Depth [cm]
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
11/22 22-B1
End Cap
End Cap
10 20 30
MagS

# DREDGE LOG
## F11-91-HW
### R/V FARNELLA

STATION/CORE ID: Z3-B1 APPROX. LOCATION: _____
DATE: 11/22
WEATHER: _____ WATER DEPTH(m): _____
RECORDED BY: _____ NAVIGATION: _____
PROCESSORS: _____ WINCH: _____
MISC. EQUIPMENT: _____
MISC.PROCEDURES: _____

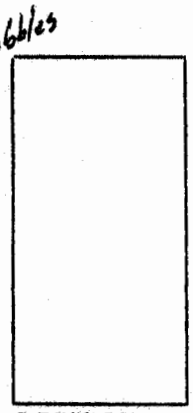
COMMENTS: Box Drained @ Surface

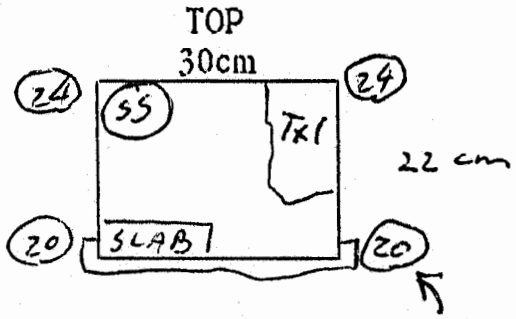
## CORE LOCATION

| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | | | |
| LAT: | | | | |
| LON: | | | | |

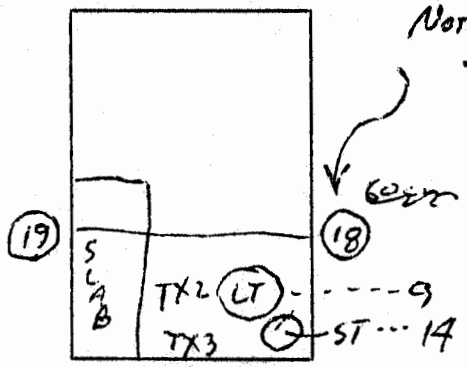
## BOX CORE INFORMATION

SS 0-22
SLAB 0-17
TX1 Surf
TX2 9
TX3 18(BTM)
BULK SURF
BULK 1-18
TX4 BTM (@ SS)
LT - 9
ST - 14




NOTE: 2 cm diff



# SAMPLE LOG

LOCATOR: F11-91-HW

SAMPLE NO: 23-B1

STATION NO: 23

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| | SURF | Hampton | USGS | Tx 1 | "/22 |
| | 9 | | | Tx 2 | |
| | 18 | | | Tx 3 | |
| | @ 55-cobbles 18 | Lee | | Tx 4 | |
| | 0-22 | Lee | | SS | |
| | 0-17 | | | SLAB | |
| | SURF | | | BULK | |
| | 1-18 | | | BULK | |
| | 9 | | | LT | |
| | 14 | | | ST | |
| | 0-17 | WINTERS | | CRSC | |
| | | | | | |
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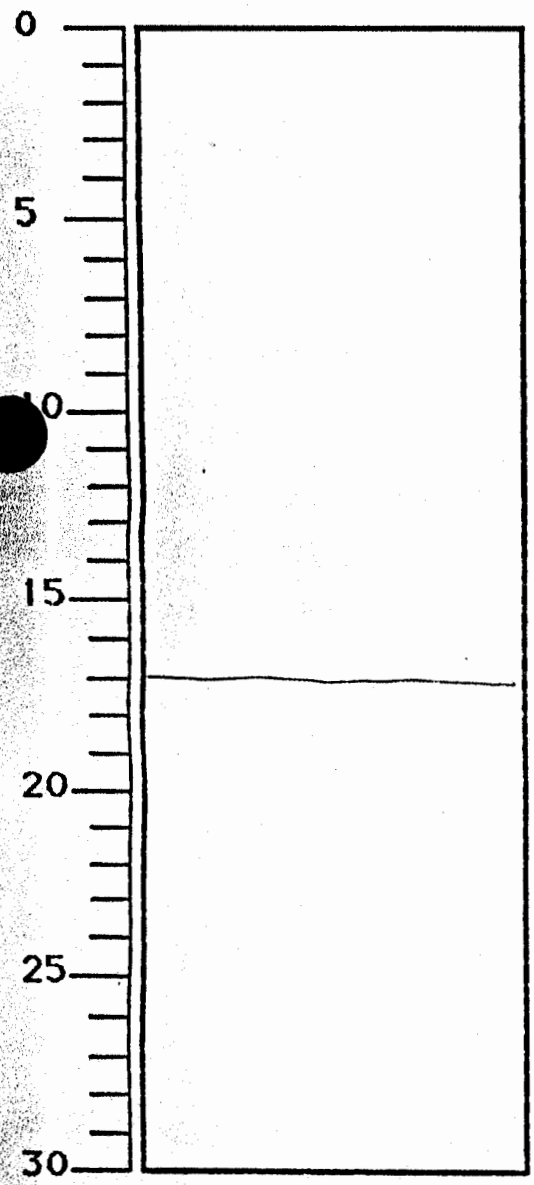
NEBCO

# F11-91-HW
# Box Core Visual Description Form

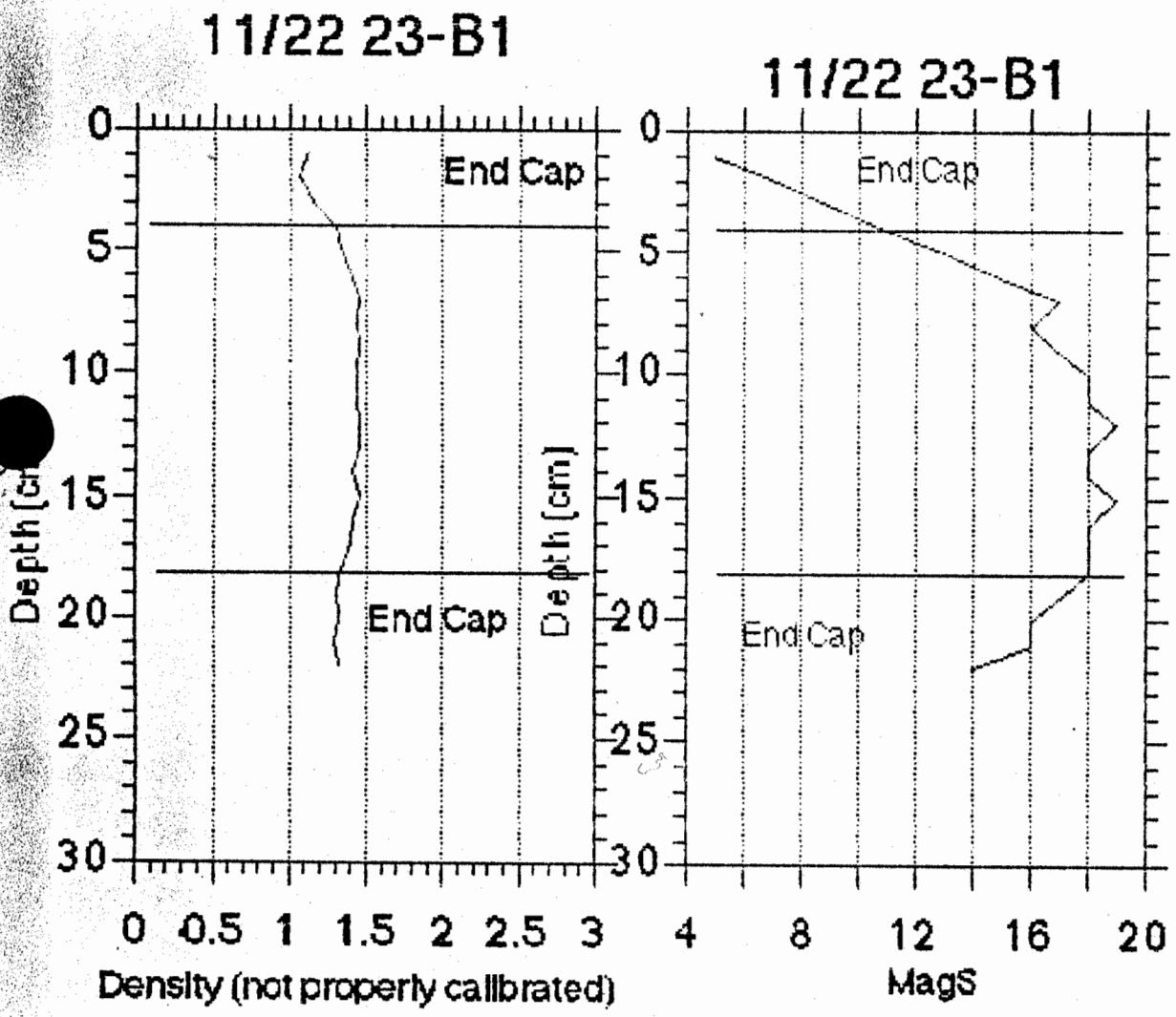
Core ID: F11-91-HW 33-B-1 Observer: HAMPTON

## Description




0-17 cm.

BLACK COARSE SAND TO GRAVEL (5 mm MAX. SIZE). ~UNIFORM THROUGHOUT.


11/22 23-B1
End Cap
End Cap
Depth (cm)
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
11/22 23-B1
End Cap
End Cap
Depth (cm)
4 8 12 16 20
MagS

# DREDGE LOG
## F11-91-HW
### R/V FARNELLA

STATION/CORE ID: 24-B1 APPROX. LOCATION: _____
DATE: 11/22
WEATHER: _____ WATER DEPTH(m): _____
RECORDED BY: _____ NAVIGATION: _____
PROCESSORS: _____ WINCH: _____
MISC. EQUIPMENT: _____
MISC.PROCEDURES: _____

COMMENTS: Box damaged @ surface; some standing water still on top of core

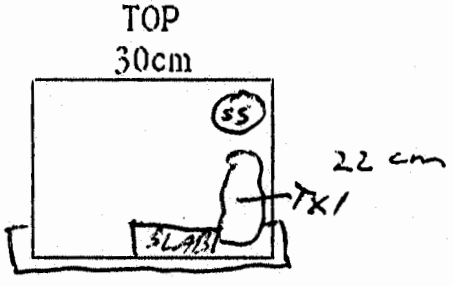
## CORE LOCATION

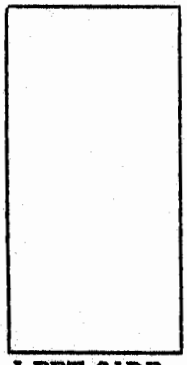
| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | | | |
| LAT: | | | | |
| LON: | | | | |

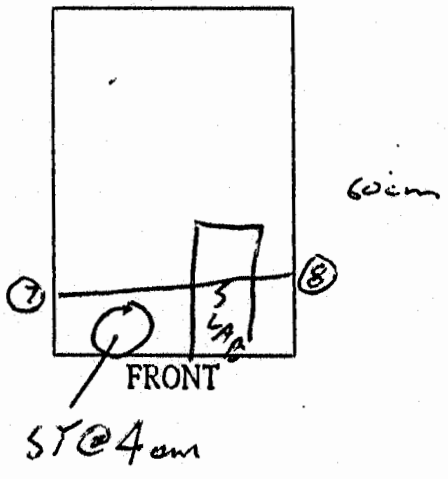
## BOX CORE INFORMATION

SS = 0-10
SLAB: 0-9
TX 1 : Surf
Bulk surf
ST @ 4 cm
to L.T
Bulk 1-9
CRSC - winters
@ 0-9

60 cm



# SAMPLE LOG

LOCATOR: F11-91-HW SAMPLE NO: #24-B1

STATION NO: 24

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| Box | surf | Hampton | USGS | Tx1 | 11/22 |
| | surf | Lee | | Bulk | |
| | 1-9 | | | Bulk | |
| | 4 | | | ST | |
| | 0-9 | | | SLAB | |
| | 0-10 | | | SS | |
| | 0-9 | Winters | | consol CRSC | |
| | | | | | |
| | | | | | |
| | NOTE: | No LT | | | |
| | | | | | |
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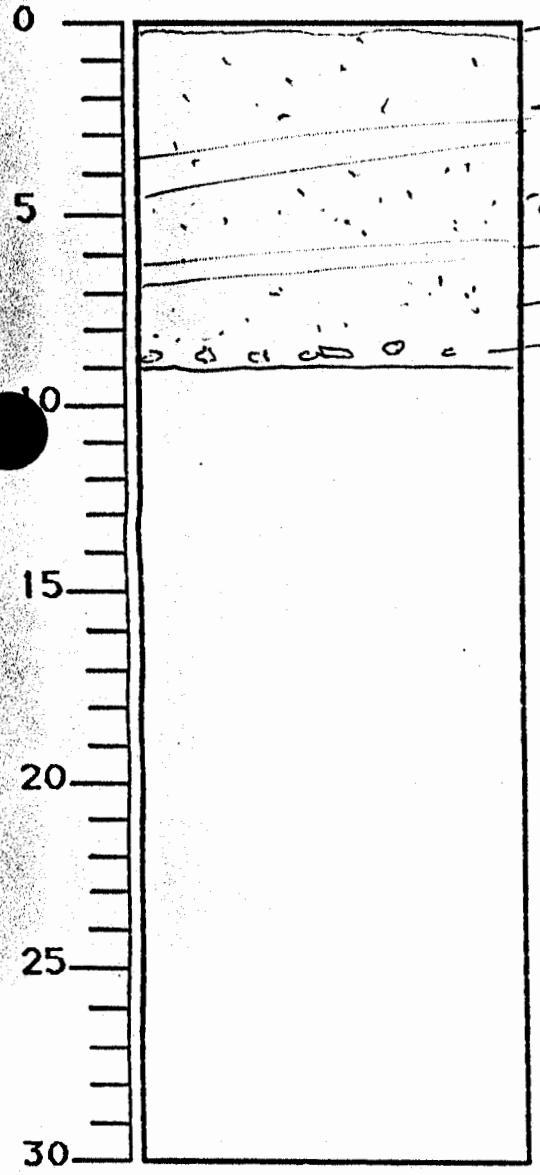
NEBCO

# F11-91-HW
# Box Core Visual Description Form

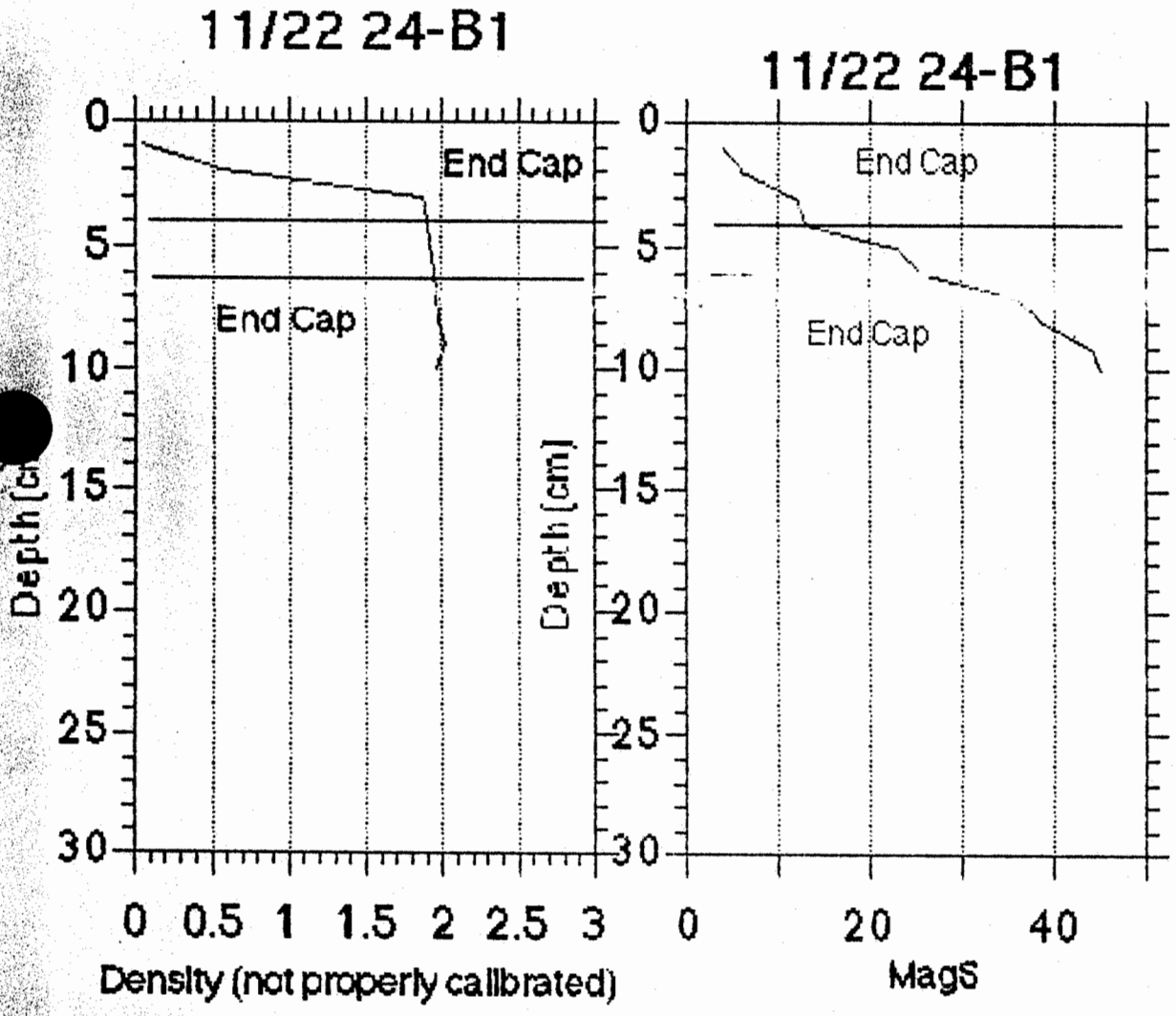
Core ID: 24B1 Observer: MET

## Description




FAINT LAMS MED SAND to COARSE SAN ALTERNATIONS
BOTTOM HALF CM ↑ to GRAVEL
FAINT MUDDY ~~SAND~~ SAND LAYER at SURF
OF 1-3MM

* MANY SHORT BX. CORES BOTTOM IN A GRAVELLY LAYER


11/22 24-B1
End Cap
End Cap
Depth (cm)
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
11/22 24-B1
End Cap
End Cap
Depth (cm)
0 20 40
MagS

**F11-91-HW**
**R/V FARNELLA**

STATION/CORE ID: 27-B-1 APPROX. LOCATION: OFF KILAUEA
DATE: 11-22-91
WEATHER: S. SWELLS WATER DEPTH(m):
RECORDED BY: WTW NAVIGATION: SCREWED UP
PROCESSORS: HJL & Co. WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES:

COMMENTS: SS1 Was Displaced [illegible]
During Extraction [illegible]

## CORE LOCATION

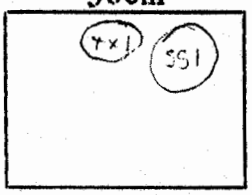
| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | 1831 | | | 1930 |
| LAT: | | | | |
| LON: | | | | |

## BOX CORE INFORMATION

TX 1 0-1 cm
TX 2 8 cm
TX 3 10 cm

BULK 1 0-1 cm
BULK 2 1-16 cm

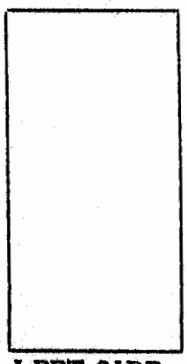
TOP
30cm




0-19 cm

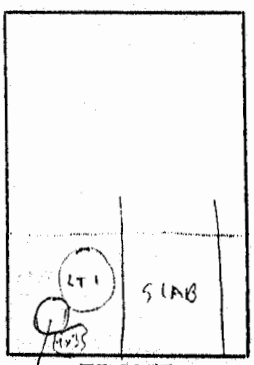
22 cm

TX 4 0-1 cm SLAB TRIMM
TRIM 1 SLAB TRIMMING



60 cm

LEFT SIDE
22cm



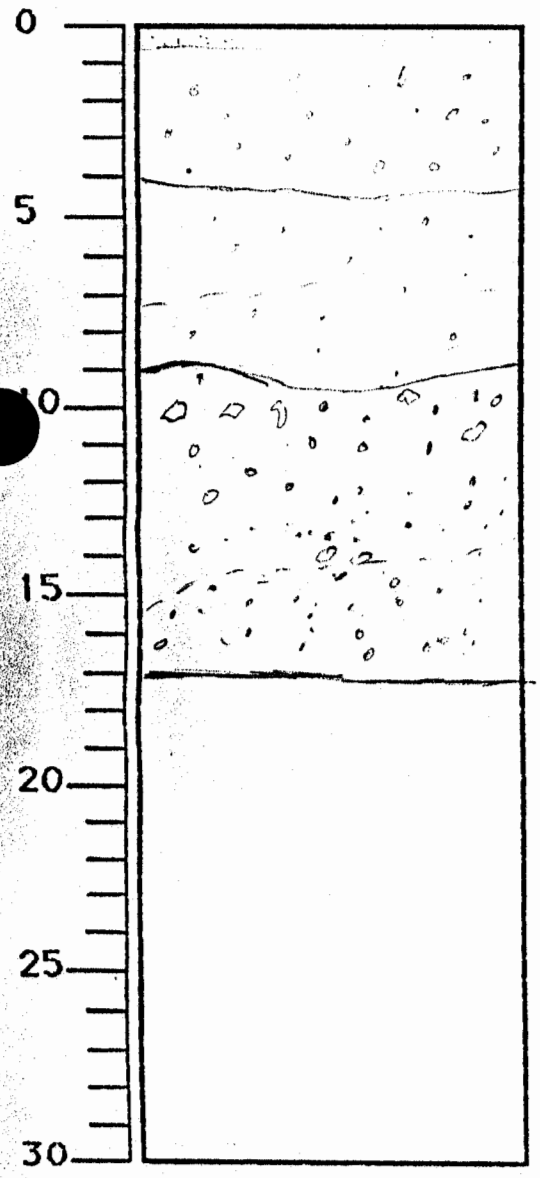

60cm

FRONT

ST1

# F11-91-HW
# Box Core Visual Description Form

Core ID: F11-91-HW-B1-27 (27-B1)  Observer: CB.




## Description

[illegible]

Coarse Sand (fragments)

Medium Sand

Very coarse Sand (fragments) + gravels

Coarse Sand

Coarsening Up

# SAMPLE LOG

LOCATOR: F11-91-HW

SAMPLE NO: 27-B1

STATION NO: 27

Box Core

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| SS1 | 0-17 cm | LEE | USGS | | 11-22-91 |
| LT1 | @ 8 cm | " | " | | |
| ST1 | @ 10 cm | " | " | | |
| SMB | 0-16 cm | " | " | | |
| TX1 | 0-1 cm | HAMPTON | " | TX | |
| TX2 | @ 8 cm | " | " | TY | |
| TX3 | @ 14 cm | " | " | TX | |
| TX4 | 0-1 cm SLAB TRIMMINGS | " | " | TX | |
| TRIM 1 | 0-16 cm SLAB TRIMMINGS | LEE | " | | |
| BULK1 | 0-1 cm | " | " | | |
| BULK2 | 1-16 cm | " | " | | |
| CRSC 1 | @ 8 cm | WINTERS | " | | |
| | | | | | |
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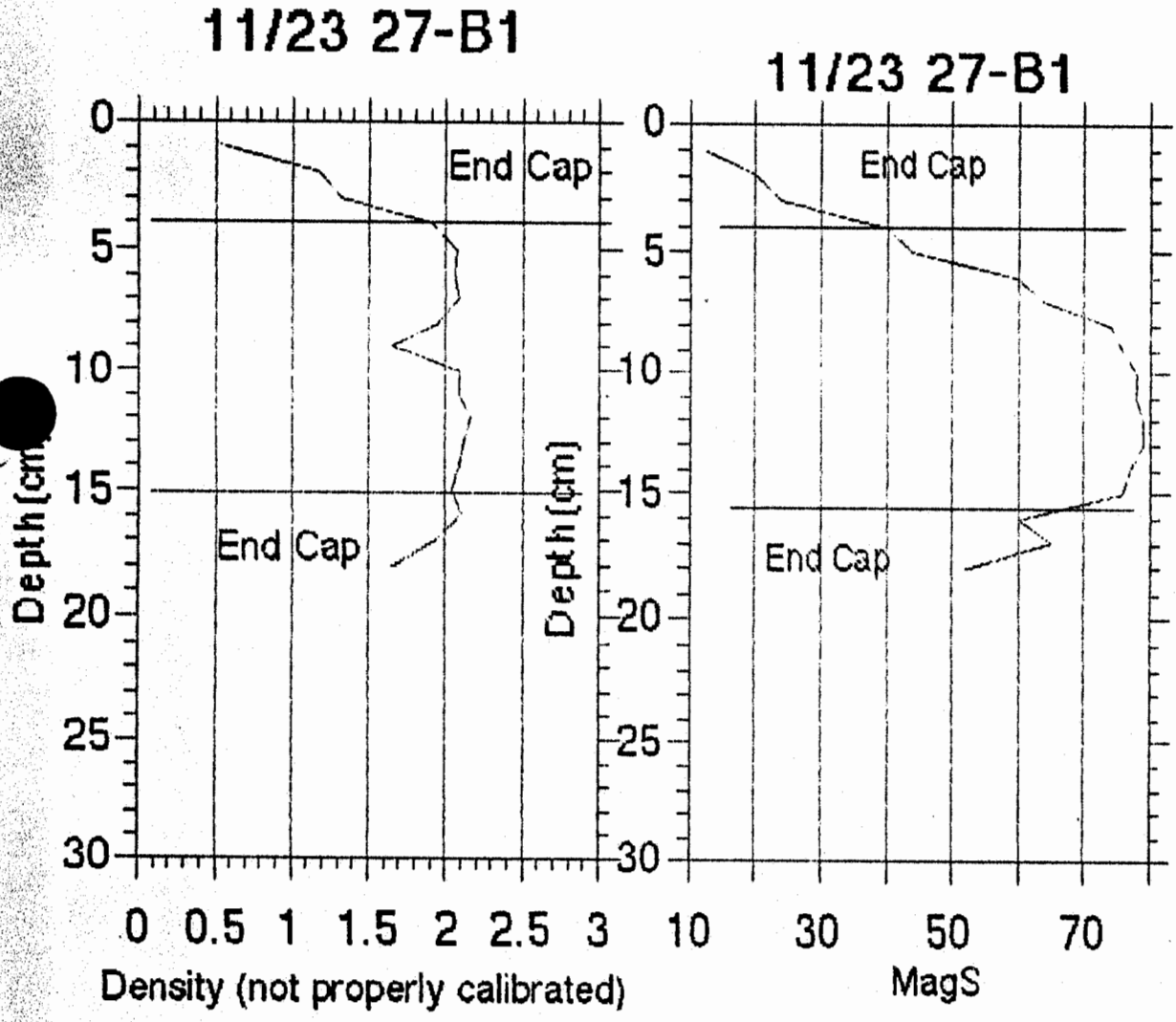
NEBCO


11/23 27-B1
End Cap
End Cap
Depth (cm)
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
11/23 27-B1
End Cap
End Cap
Depth (cm)
10 30 50 70
MagS

# DREDGE LOG
## F11-91-HW
R/V FARNELLA

STATION/CORE ID: 28-81 APPROX. LOCATION: OFF KILAUEA
DATE: 11-22-91
WEATHER: WATER DEPTH(m):
RECORDED BY: DJW NAVIGATION:
PROCESSORS: HTI & Co, INC. WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES:

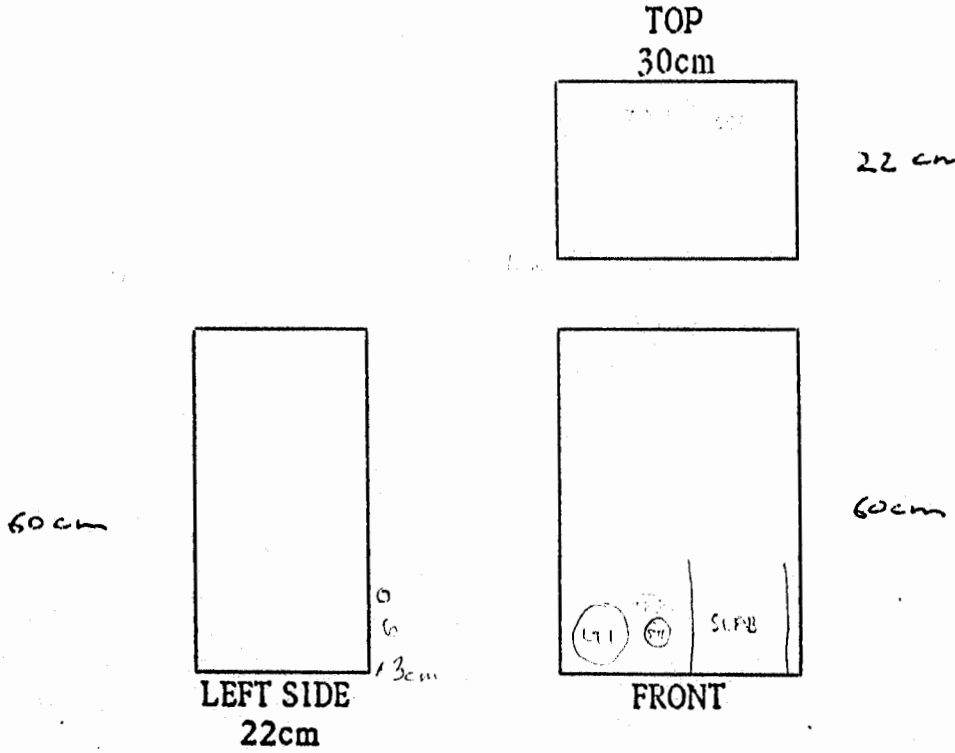
COMMENTS:

## CORE LOCATION

| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | ~ 1000 | | | |
| LAT: | | | | |
| LON: | | | | |

## BOX CORE INFORMATION

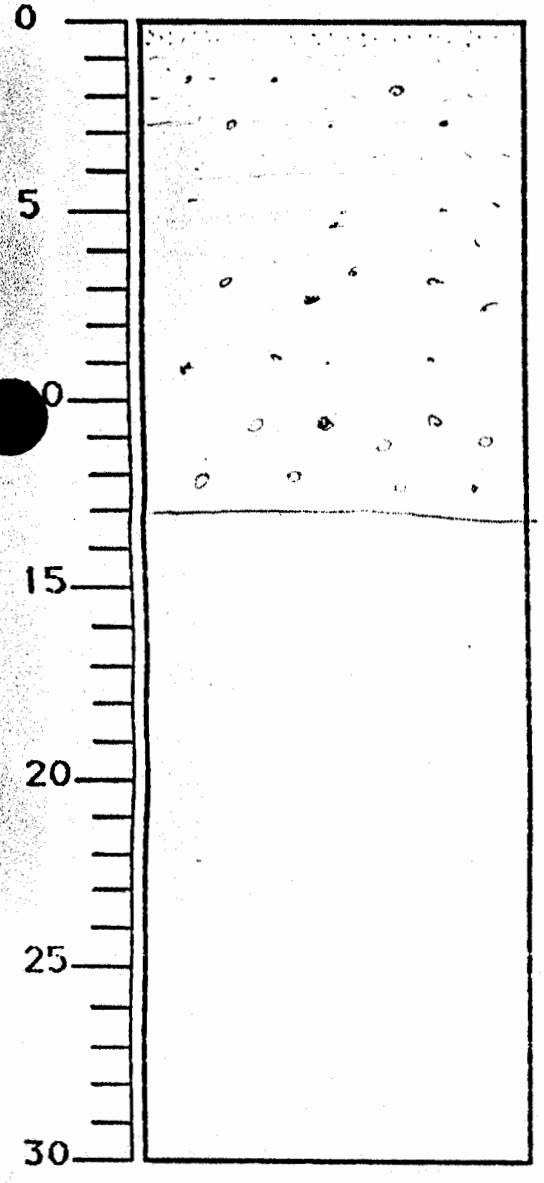
TX1 0-1cm
TX2 4cm
TX3 10 cm
[illegible]
TX4 0-2cm SLAB TRIMMINGS
TRIM 1 SLAB TRIMMIN



# F11-91-HW
# Box Core Visual Description Form

Core ID: F11-91-HW 28-B1 Observer: [illegible]

## Description




Fine sand and [illegible]

Medium [illegible]

Fining upward [illegible] section [illegible]

[illegible] sands [illegible]

Coarse sand

# SAMPLE LOG

LOCATOR: F11-91-HW

SAMPLE NO: 28-81

STATION NO: 28

Box Core

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| SS1 | 0-14cm | 〃 | 〃 | | 11-22-91 |
| SLAB | 0-13cm | 〃 | | | |
| LT1 | @ 6cm | 〃 | 〃 | | |
| ST1 | @ 6cm | 〃 | 〃 | | |
| BULK1 | 0-1cm | 〃 | 〃 | | |
| BULK2 | 1-13cm | 〃 | | | |
| TX1 | 0-1cm | HAMPTON | 〃 | 〃 | |
| TX2 | @ 9cm | 〃 | 〃 | TX | |
| TX3 | @ 10cm | 〃 | 〃 | TX | |
| CRSC1 | @ 4cm | 〃 | 〃 | TOC | |
| TX4 | 0-2cm SLAB TRIMMINGS | HAMPTON | 〃 | | |
| TRIM1 | 2-13cm SLAB TRIMMINGS | LEE | 〃 | | |
| | | | | | |
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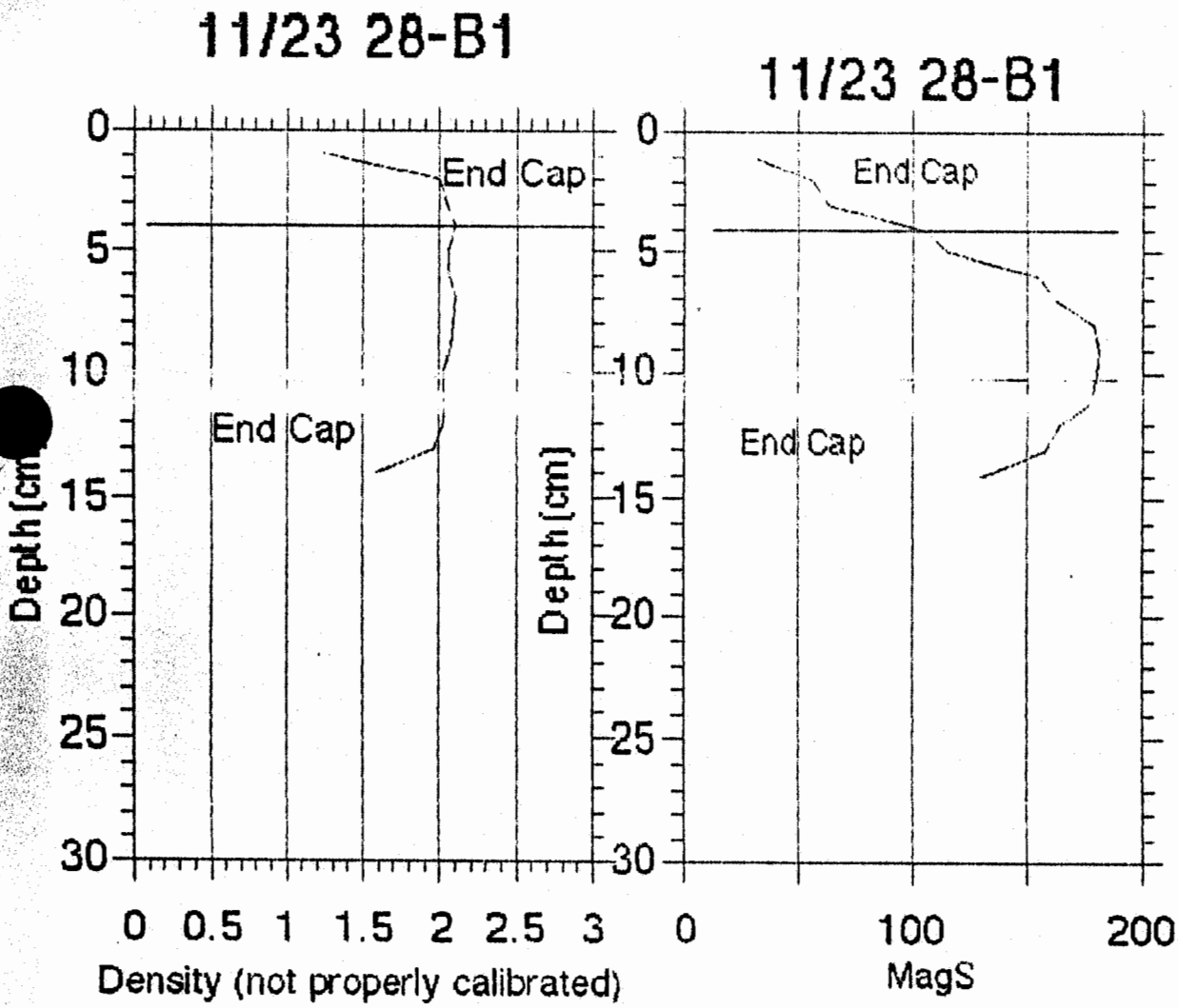
NEBCO


11/23 28-B1
End Cap
End Cap
Depth (cm)
0
5
10
15
20
25
30
0 0.5 1 1.5 2 2.5 3
Density (not properly calibrated)
11/23 28-B1
End Cap
End Cap
Depth (cm)
0
100
200
MagS

**F11-91-HW**
R/V FARNELLA

STATION/CORE ID: 30-B1 APPROX. LOCATION: OFF MAUNA LOA
DATE: 11-22-91 SAT
WEATHER: CALM WATER DEPTH(m): 2550
RECORDED BY: WJW NAVIGATION: [illegible] (DIFF. GPS SAT. DOWN)
PROCESSORS: BILL NORMARK [illegible] WINCH:
MISC. EQUIPMENT:
MISC.PROCEDURES:

COMMENTS:

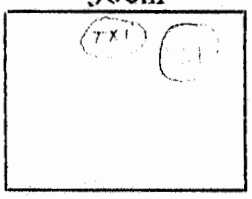
## CORE LOCATION

| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | ~ 1600 | | | |
| LAT: | | | | |
| LON: | | | | |

## BOX CORE INFORMATION

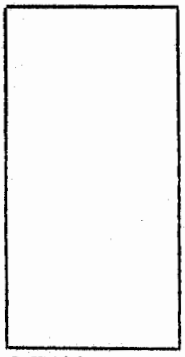
4 x 2 11 cm
4 x 2 22 cm
CRSC.1 15 cm
BULK1 0-2cm
BULK2 2-30cm

TOP
30cm

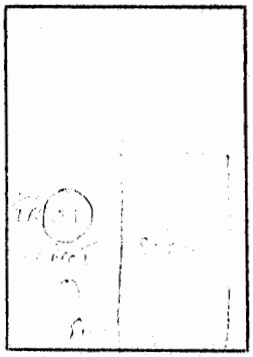



22 cm

60 cm



LEFT SIDE
22cm



60 cm.

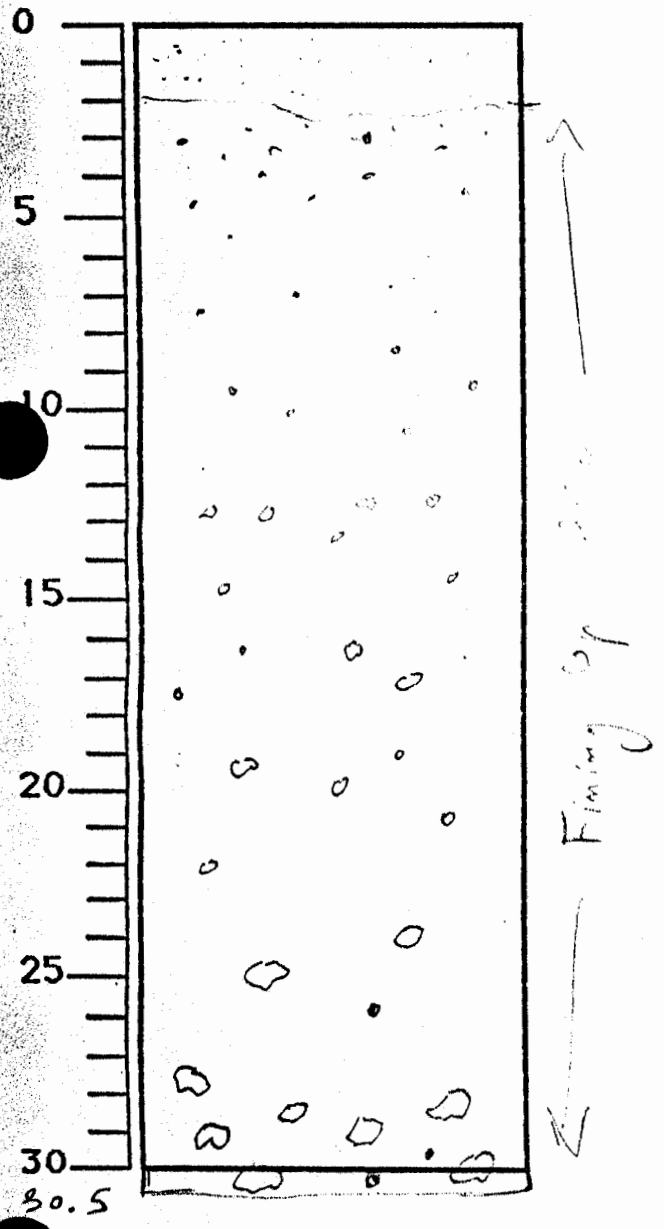
FRONT

# F11-91-HW
# Box Core Visual Description Form

Core ID: F11-91 - HW
30-B1

Observer: [illegible]

## Description




Fine Sand 5Y 5/2 - 5Y 3/2
Coarse to medium sand
(Angular)

Very [illegible]
([illegible])

Gravels + Very coarse sand
(Angular)

(Some shell [illegible])

# SAMPLE LOG

LOCATOR: F11-91-HW

SAMPLE NO: 30-B1

STATION NO: 30

Box Core

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| SS1 | 0 - 30cm | TORRESAN | USGS | | 11-23-91 |
| LT1 | @ 11 cm | " | " | " | " |
| ST1 | @ 22cm | " | " | " | " |
| SLAB | 0-30cm | TORRESAN | " | " | " |
| TX1 | 0-2cm | " | " | " | " |
| TX2 | @ 11cm | " | " | " | " |
| TX3 | @ 28cm | " | " | " | " |
| TX4 | 0-2cm SLAB TRIMMINGS | " | " | " | " |
| TRIM1 | 2-30cm SLAB TRIMMINGS | " | " | " | " |
| BULK1 | 0-2cm | " | " | " | " |
| BULK2 | 2-30cm | " | " | " | " |
| CRSC1 | @ 15cm | GINTERS | " | CRSC | " |
| | | | | | |
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NEBCO

**F11-91-HW**
R/V FARNELLA

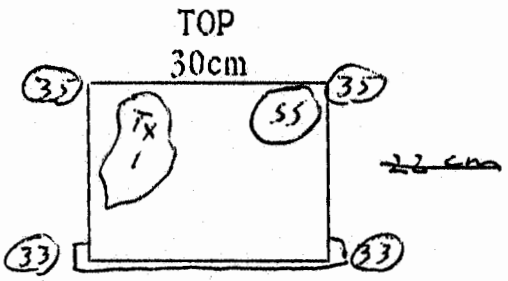
STATION/CORE ID: 35-B1 APPROX. LOCATION: _____
DATE: 11/25
WEATHER: _____ WATER DEPTH(m): _____
RECORDED BY: _____ NAVIGATION: _____
PROCESSORS: _____ WINCH: _____
MISC. EQUIPMENT: _____
MISC.PROCEDURES: _____
COMMENTS: _____

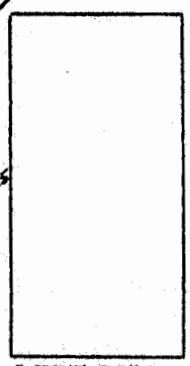
## CORE LOCATION

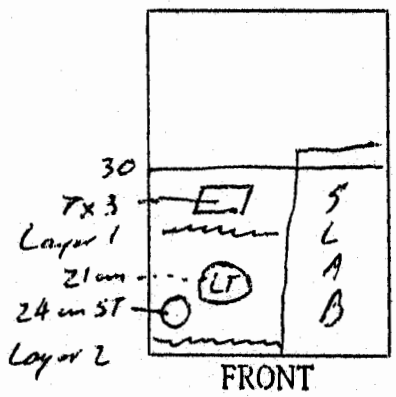
| | Start | On-Bottom | Off-Bottom | End |
|---|---|---|---|---|
| Time | | | | |
| LAT: | | | | |
| LON: | | | | |

## BOX CORE INFORMATION

SS: 0-35
Tx1 SURF
Tx2 Surf bulk
Tx3 5-6 cm
Tx4 Layer 1
Tx5 Layer 1 bulk } 13-15 cm
Tx6 Layer 1 bulk
28-30 cm { Tx7 Layer 2
Tx8 Layer 2 bulk
CASC Slab Trimmings 60 cm
Slab 0-30
LT 21
ST 24




Layer 1: Tx4, Tx5, Tx6
↳ 13-15 cm
Layer 2: Tx7, Tx8
↳ 28-30 cm

# SAMPLE LOG

LOCATOR: F11-91-HW SAMPLE NO: 35-B1

STATION NO: 35

| SECTION | INTERVAL | NAME | ORGANIZATION | PURPOSE | DATE |
|---|---|---|---|---|---|
| | SURF | Torresan/Wormark | USGS | Tx 1 | 11/25 |
| | BULK SURF | | | Tx 2 | |
| | 5-6 | | | Tx 3 | |
| | ~~13-15~~ ~~28-30~~ | | | Tx 4 | |
| Layer 1 | BULK 13-15 | | | Tx 5 | |
| | BULK 13-15 | | | Tx 6 | |
| Layer 2 | 28-30 | | | Tx 7 | |
| | BULK 28-30 | | | Tx 8 | |
| | 0-35 | | | SS | |
| | 0-30 | | | SLAB | |
| | 21 | Lee | | LT | |
| | 24 | " | " | ST | |
| | Slab 0-30 Trimmys | WINTERS | " | CRSC | |
| | | | | | |
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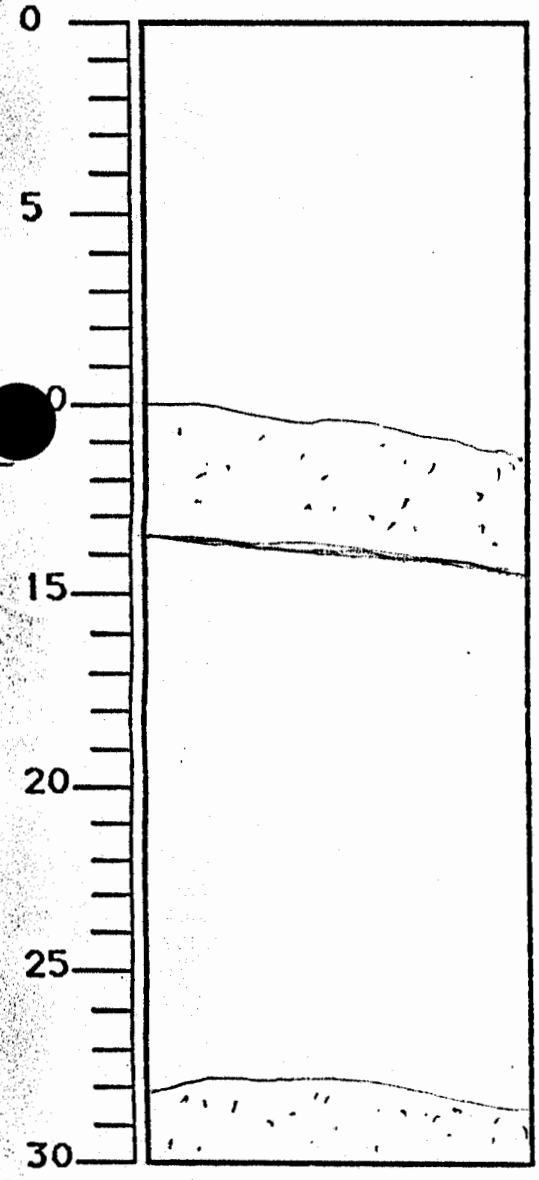
NEBCO

# F11-91-HW
# Box Core Visual Description Form

F11-91-HW
Core ID: 35-B-1 Observer: HAMPTON

## Description

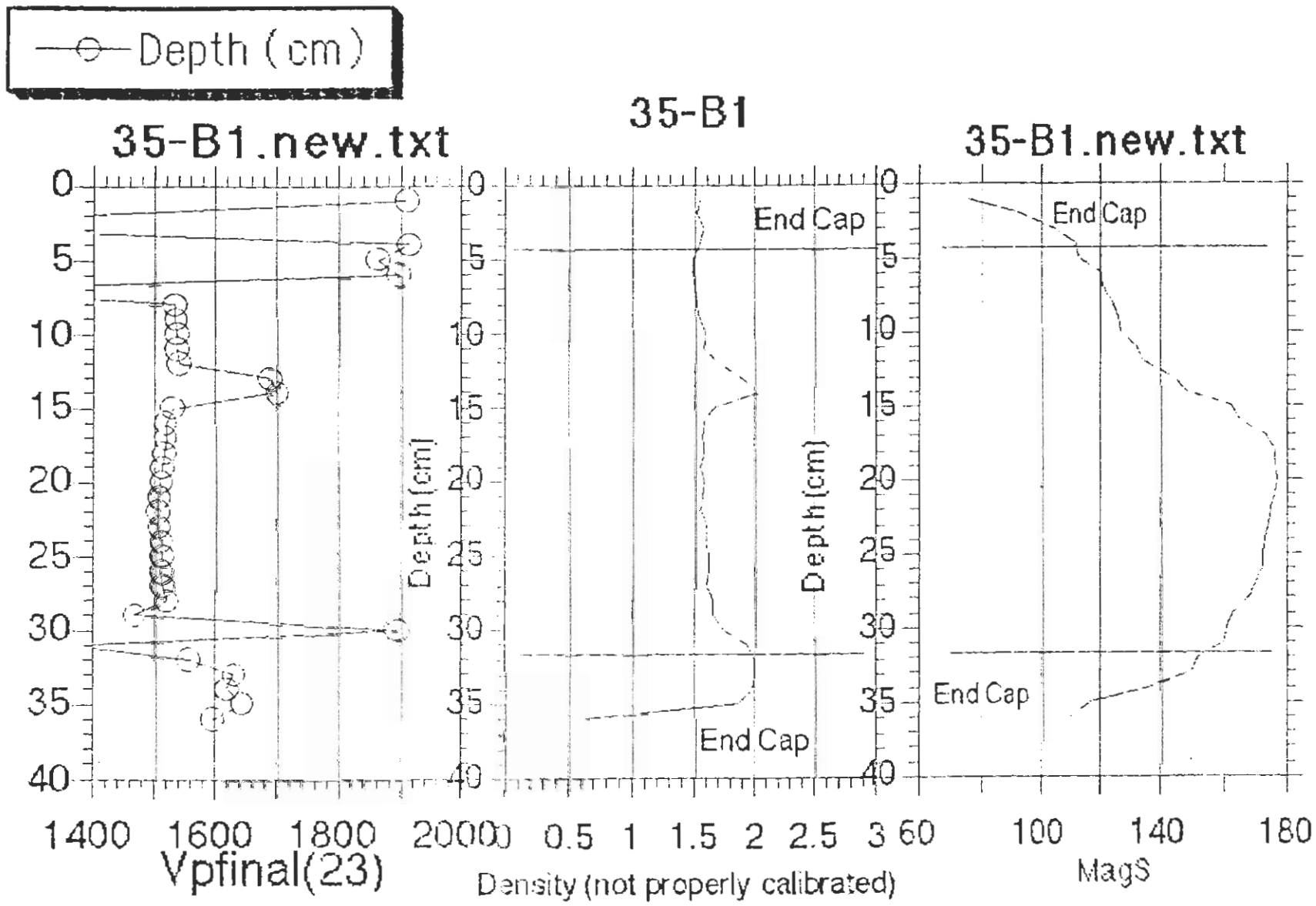


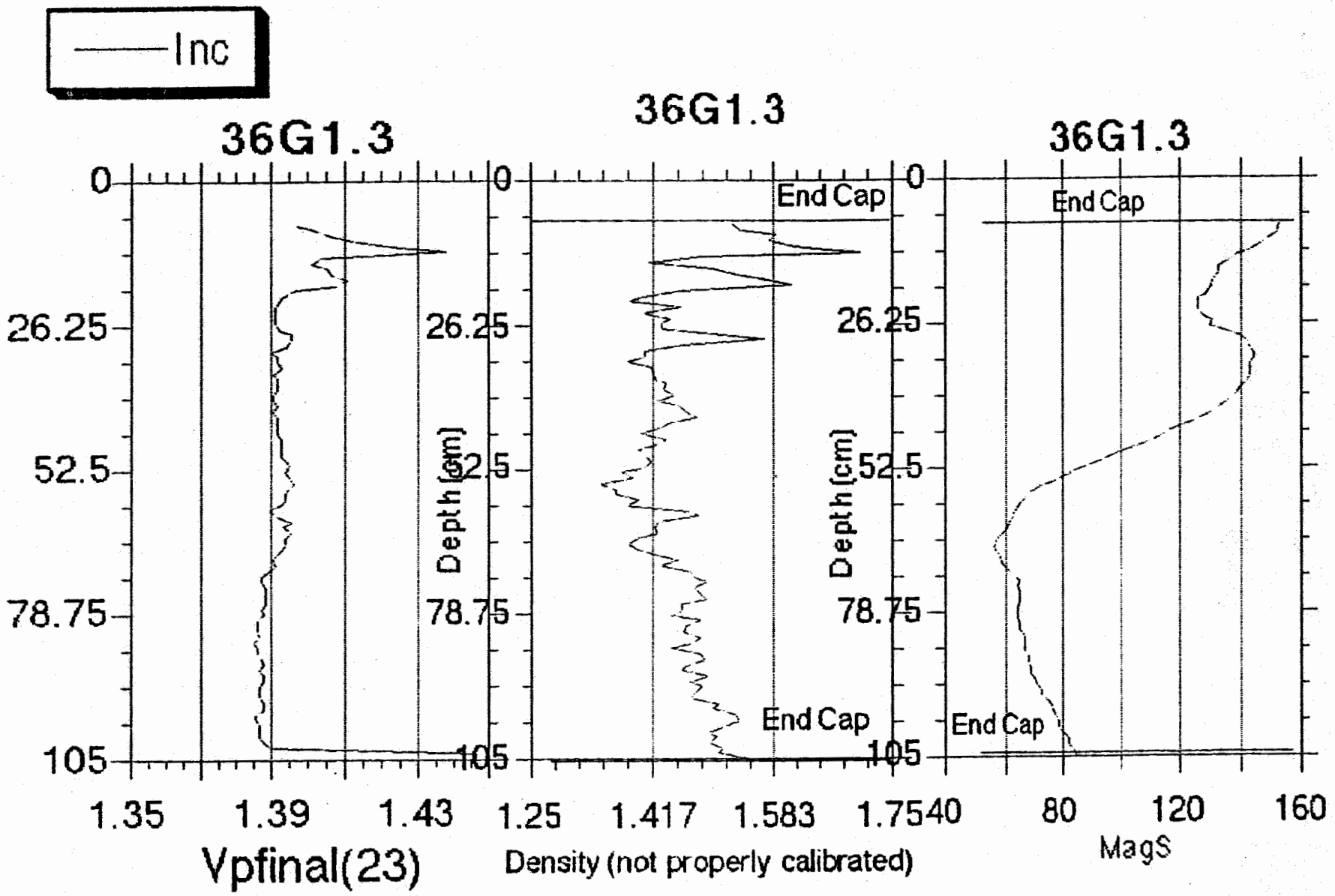

0-10cm:
MOTTLED SANDY MUD (GRAYISH OLIVE 10Y4/1, → OLIVE GRAY 5Y3/2)

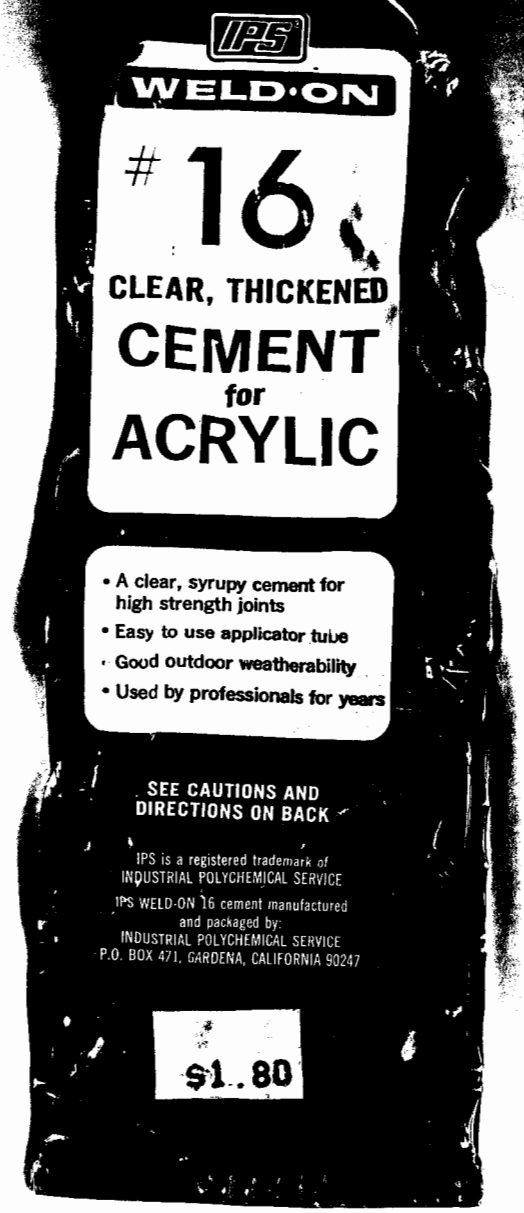
10-13.5cm:
BLACK MEDIUM VOLCANIC SAND. SLIGHTLY IRREGULAR UPPER & LOWER CONTACTS. BURROWS IN UPPER 1.5cm. SPARSE FOLIAMS.

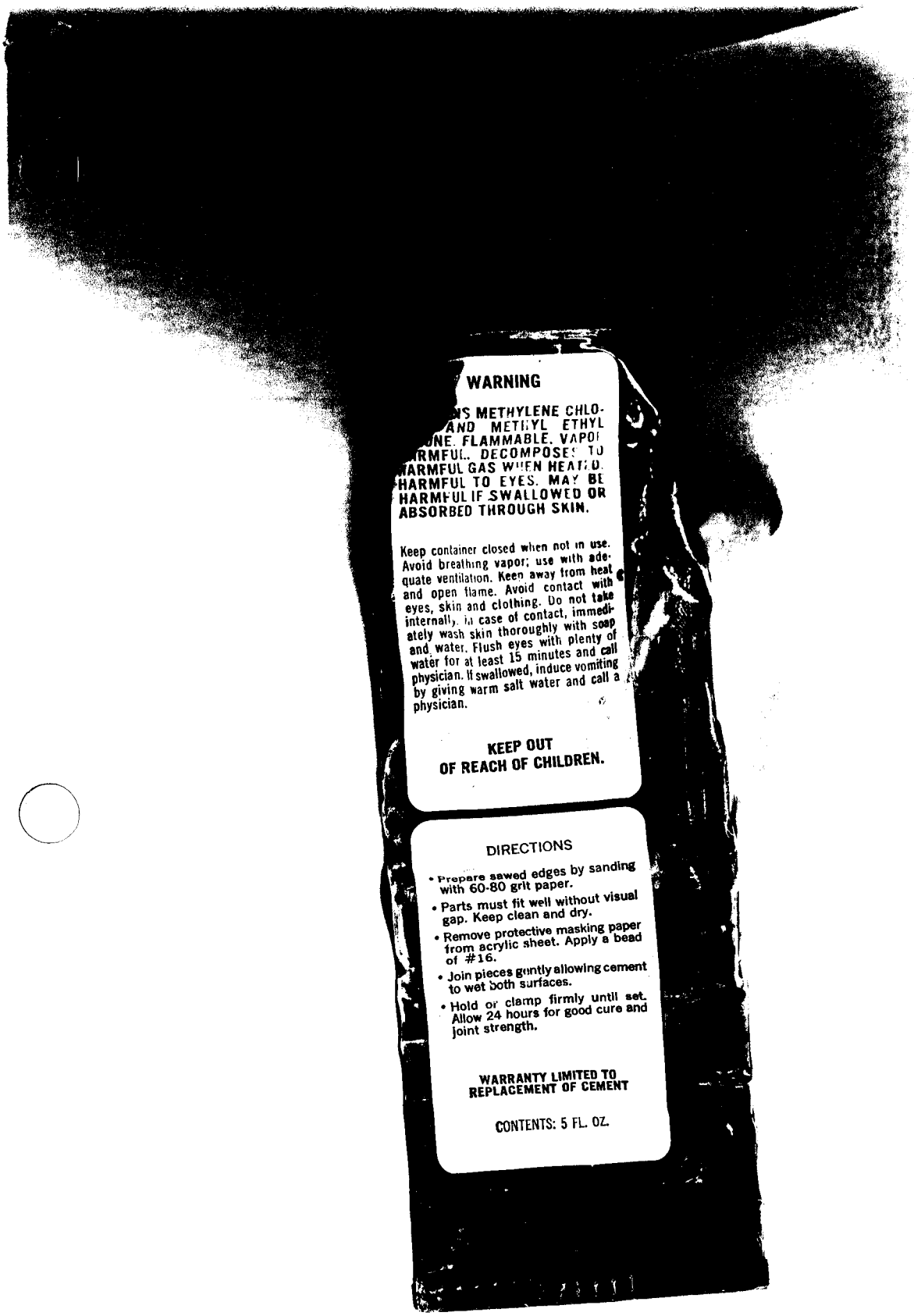
13.5cm - 28cm:
MOTTLED CLAY, SAME AS 0-10cm.

28-30 cm.
BLACK SAND, AS 10-13.5cm (FELL OUT OF TRAY - DISTURBED PIECES RETURNED TO TRAY) LARGE, CONVEX UPWARD UPPER CONTACT.


Depth (cm)
35-B1.new.txt
35-B1
35-B1.new.txt
End Cap
End Cap
End Cap
End Cap
Depth (cm)
Depth (cm)
0
5
10
15
20
25
30
35
40
1400
1600
1800
2000
Vpfinal(23)
0.5
1
1.5
2
2.5
3
Density (not properly calibrated)
60
100
140
180
MagS


Inc
36G1.3
36G1.3
36G1.3
End Cap
End Cap
End Cap
End Cap
0
26.25
52.5
78.75
105
Depth (cm)
1.35
1.39
1.43
Vpfinal(23)
1.25
1.417
1.583
1.75
Density (not properly calibrated)
40
80
120
160
MagS


IPS
WELD·ON
# 16
CLEAR, THICKENED
CEMENT
for
ACRYLIC
• A clear, syrupy cement for high strength joints
• Easy to use applicator tube
• Good outdoor weatherability
• Used by professionals for years
SEE CAUTIONS AND DIRECTIONS ON BACK
IPS is a registered trademark of INDUSTRIAL POLYCHEMICAL SERVICE
IPS WELD-ON 16 cement manufactured and packaged by:
INDUSTRIAL POLYCHEMICAL SERVICE
P.O. BOX 471, GARDENA, CALIFORNIA 90247
$1.80


WARNING
S METHYLENE CHLO-
AND METHYL ETHYL
NE. FLAMMABLE. VAPOI
RMFUL. DECOMPOSES TO
ARMFUL GAS WHEN HEATED.
HARMFUL TO EYES. MAY BE
HARMFUL IF SWALLOWED OR
ABSORBED THROUGH SKIN.
Keep container closed when not in use. Avoid breathing vapor; use with adequate ventilation. Keep away from heat and open flame. Avoid contact with eyes, skin and clothing. Do not take internally. In case of contact, immediately wash skin thoroughly with soap and water. Flush eyes with plenty of water for at least 15 minutes and call physician. If swallowed, induce vomiting by giving warm salt water and call a physician.
KEEP OUT
OF REACH OF CHILDREN.
DIRECTIONS
• Prepare sawed edges by sanding with 60-80 grit paper.
• Parts must fit well without visual gap. Keep clean and dry.
• Remove protective masking paper from acrylic sheet. Apply a bead of #16.
• Join pieces gently allowing cement to wet both surfaces.
• Hold or clamp firmly until set. Allow 24 hours for good cure and joint strength.
WARRANTY LIMITED TO
REPLACEMENT OF CEMENT
CONTENTS: 5 FL. OZ.

STA No. - CORE No.

DREDGE 1-D1

BOX CORE - SLAB 1-BC1-S1

TUBE SUBSAMPLE 1-BC1-T1

BAG 1-BC1-B1

SOUTAR VAN VEEN SAMPLE 1-SVV1

VAN VEEN SAMPLE 1-VV1

SHIPEK SAMPLE 1-SS1

GRAVITY CORE 1-GC1

TRIGGER CORE 1-TC1

PISTON CORE 1-PC1

SAVE 4-23-90

# VANE SHEAR CONVERSION (FOR 1/2" x 1/2" VANE)

TORQUE (IN-OZ x 2) → $S_u$, $S_r$ (kPa) SAVE

| TORQUE IN-OZ x 2 | x 0.81285 | | | | | | |
|---|---|---|---|---|---|---|---|
| 0.1 | 0.1 | 3.0 | 2.5 | 6.0 | 4.9 | 9.0 | 7.4 |
| 0.2 | 0.2 | 3.1 | 2.6 | 6.1 | 5.0 | 9.1 | 7.5 |
| 0.3 | 0.2 | 3.2 | 2.6 | 6.2 | 5.1 | 9.2 | 7.6 |
| 0.4 | 0.3 | 3.3 | 2.7 | 6.3 | 5.2 | 9.3 | 7.7 |
| 0.5 | 0.4 | 3.4 | 2.8 | 6.4 | 5.3 | 9.4 | 7.7 |
| 0.6 | 0.5 | 3.5 | 2.9 | 6.5 | 5.3 | 9.5 | 7.8 |
| 0.7 | 0.6 | 3.6 | 3.0 | 6.6 | 5.4 | 9.6 | 7.9 |
| 0.8 | 0.7 | 3.7 | 3.0 | 6.7 | 5.5 | 9.7 | 8.0 |
| 0.9 | 0.7 | 3.8 | 3.1 | 6.8 | 5.6 | 9.8 | 8.1 |
| 1.0 | 0.8 | 3.9 | 3.2 | 6.9 | 5.7 | 9.9 | 8.1 |
| 1.1 | 0.9 | 4.0 | 3.3 | 7.0 | 5.8 | 10.0 | 8.2 |
| 1.2 | 1.0 | 4.1 | 3.4 | 7.1 | 5.8 | 10.1 | 8.3 |
| 1.3 | 1.1 | 4.2 | 3.5 | 7.2 | 5.9 | 10.2 | 8.4 |
| 1.4 | 1.2 | 4.3 | 3.5 | 7.3 | 6.0 | 10.3 | 8.5 |
| 1.5 | 1.2 | 4.4 | 3.6 | 7.4 | 6.1 | 10.4 | 8.6 |
| 1.6 | 1.3 | 4.5 | 3.7 | 7.5 | 6.2 | 10.5 | 8.6 |
| 1.7 | 1.4 | 4.6 | 3.8 | 7.6 | 6.3 | 10.6 | 8.7 |
| 1.8 | 1.5 | 4.7 | 3.9 | 7.7 | 6.3 | 10.7 | 8.8 |
| 1.9 | 1.6 | 4.8 | 3.9 | 7.8 | 6.4 | 10.8 | 8.9 |
| 2.0 | 1.6 | 4.9 | 4.0 | 7.9 | 6.5 | 10.9 | 9.0 |
| 2.1 | 1.7 | 5.0 | 4.1 | 8.0 | 6.6 | 11.0 | 9.1 |
| 2.2 | 1.8 | 5.1 | 4.2 | 8.1 | 6.7 | 11.1 | 9.1 |
| 2.3 | 1.9 | 5.2 | 4.3 | 8.2 | 6.7 | 11.2 | 9.2 |
| 2.4 | 2.0 | 5.3 | 4.4 | 8.3 | 6.8 | 11.3 | 9.3 |
| 2.5 | 2.1 | 5.4 | 4.4 | 8.4 | 6.9 | 11.4 | 9.4 |
| 2.6 | 2.1 | 5.5 | 4.5 | 8.5 | 7.0 | 11.5 | 9.5 |
| 2.7 | 2.2 | 5.6 | 4.6 | 8.6 | 7.1 | 11.6 | 9.5 |
| 2.8 | 2.3 | 5.7 | 4.7 | 8.7 | 7.2 | 11.7 | 9.6 |
| 2.9 | 2.4 | 5.8 | 4.8 | 8.8 | 7.2 | 11.8 | 9.7 |
| 3.0 | 2.5 | 5.9 | 4.9 | 8.9 | 7.3 | 11.9 | 9.8 |

11-23-91 SCHULTHEISS "GEOTEK MULTI-SENSOR CORE LOGGER

w/ GILLES OLLIER & BRIAN EDWARDS

WJW CLIP 9905 FINGER 39

AUTO / MANUAL ○ ○ always enable

↔ ○ ○ SLOW / FAST

always test from rt to left

but to right

start at 6 or 7 cm . not on cap

[ ] magnetic  ? cesium 137  [ ] velocity

don't adjust spring loaded vel. heads

boat all way to rt before remove celsium cap

max length 155 cm

- TAKE CAP OFF CESIUM SOURCE

① Temperature at begining & end of run & assume

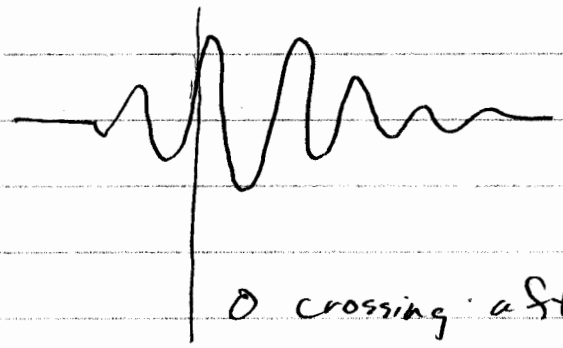
for off south #1 °C

② Acoustic couplg - wet side core

for scale highest number water core #9/10

(3) Oscilloscope - count point
pull out power pin (on rt)

red - sand lose wavelengths




make note if lose wavelengths
or shift zero pt

(4) Box before run set magnets

top left
before run { toggle to rt push z button
toggle to left

Q cgs
D Batt 6.0

(5) computer

HD

Hypercard 2.1

Hyperscan

Hyper logger screen

Input:

scan increment [1cm]

start [7cm]

scan distance (cm)

temp °C — beginning temp only

Cruise ID

core ID section #

Do NOT Hit [RETURN] in data input

should not have to go to options

[SCAN]

all devices on: [yes]

file name: core # test

[OK]

1 interrogate velocity head

4 moving stepping motor

2 gamma sensor

3 magnetic field

periodically not signal strength bar
oscilloscope & cm on core
make notes

liner thickness
time electronics delay
pulse delay

Initially red cap on deck
acetone clear cap in lab
mark core every 10 cm
top of core to last

* every time put cesium source in run calibration
core

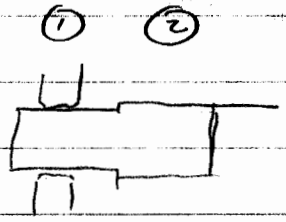
try not better than 5 m/sec
sand absorbs energy (attenuates signal)
i.e. lose wavelengths

closing scan another core?
[No]

6 write down end temp

(7) Calibration - Head Displacement

reload calibration - standard




Display ① should read 0.0 mm (80.0 mm diam)

② big 10.0 mm

3.1 mm thickness liner

adjust ADC interface only

scale displacement offset

standard small diam. adjust offset to read 0.0 mm

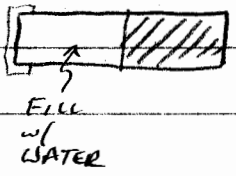
large diam scale displacement to read 10.0 mm

1°C 5 m/sec } error in

0.1 mm 2-3 m/sec }

(8) Calibration

alum plug in core - gamma check




Calibration log p.7

date calib.

log alum. standard date term

10 millirem / hr