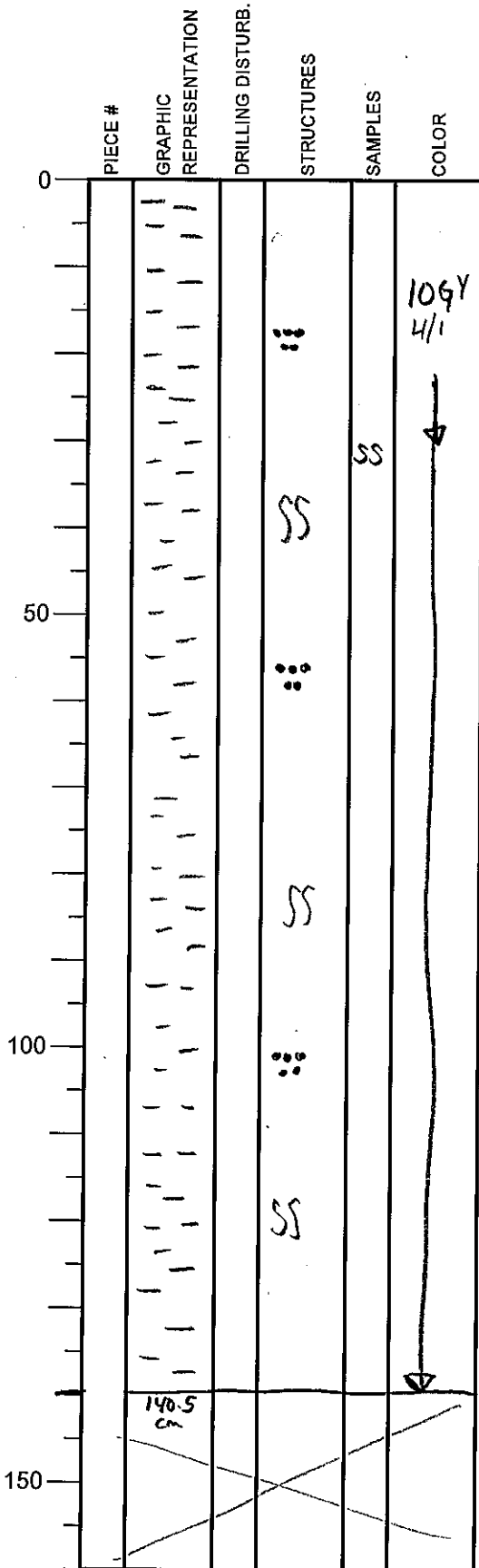


Integrated Ocean Drilling Program Visual Core Description

VCD NO. 001
 DATE: 05/04/2013
 EXP.: 338
 SITE/HOLE: COO213
 CORE: 01H
 SECTION: ~~001~~ 01
 TOP DEPTH (m CSF): 0.0



SECTION DESCRIPTION

OBSERVER: D.SAWYER

SILTY CLAY

Greenish gray, slight/faintly laminated to homogenous w/ mottling.

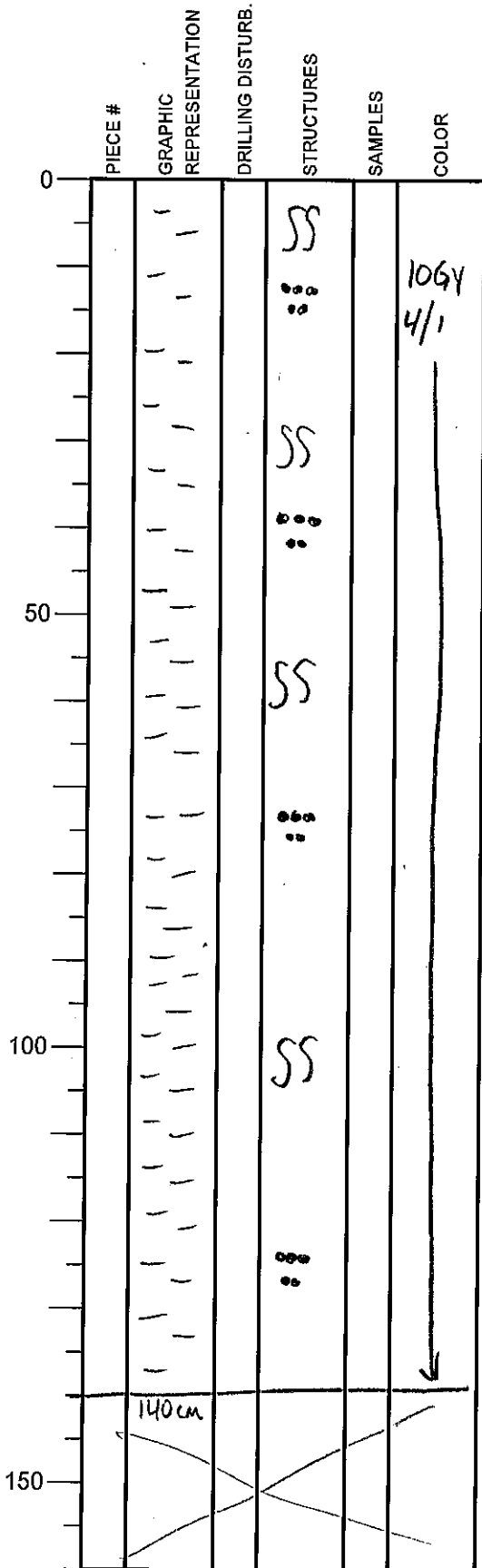
SS: 30cm: see data sheet

Note: mottled appearance is due to moderate bioturbation (seen in CT scan)

Integrated Ocean Drilling Program Visual Core Description

NO. 2
 DATE: 25/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 01H
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: D SAWYER

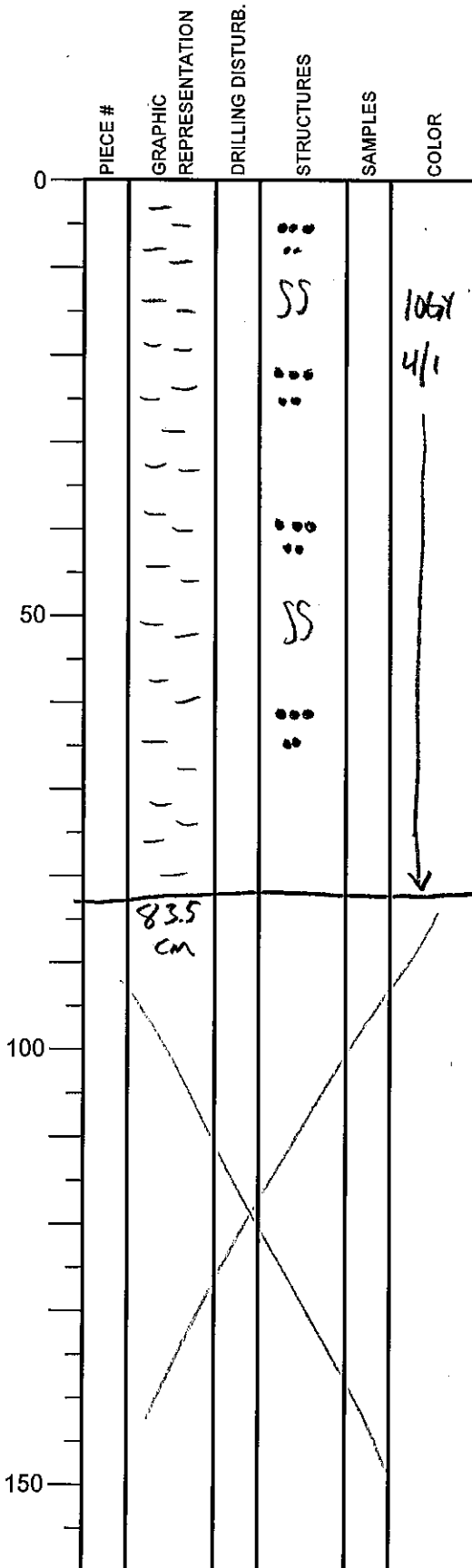


SECTION DESCRIPTION

SILTY CLAY

Integrated Ocean Drilling Program Visual Core Description

NO. 3
 DATE: 25/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: ~~000000~~ 01H
 SECTION: 3
 TOP DEPTH (m CSF):



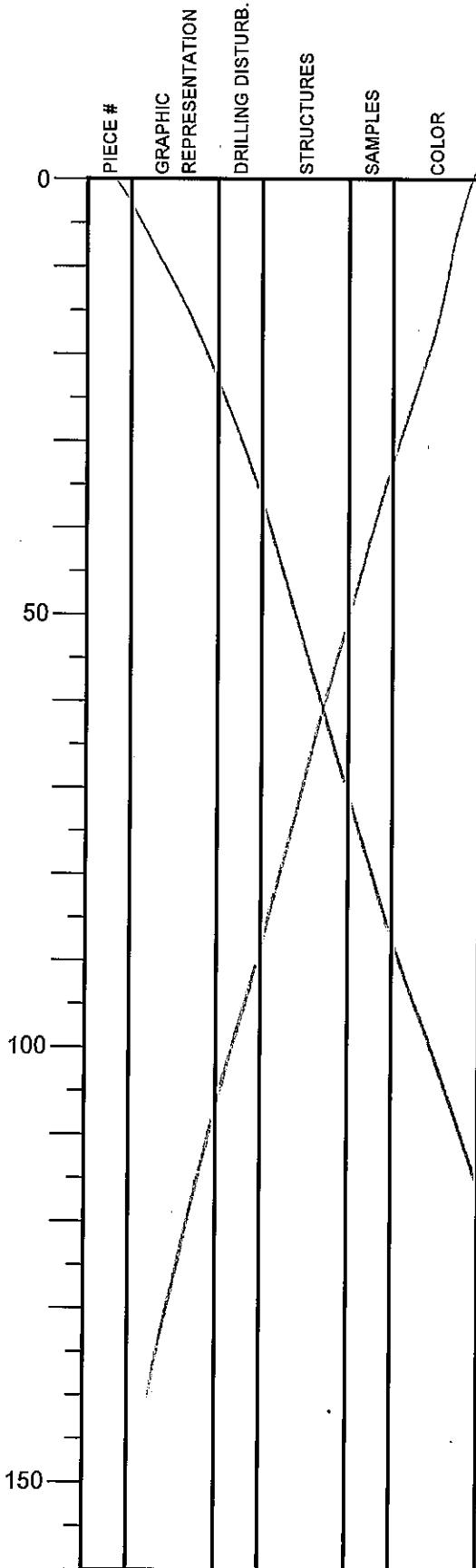
SECTION DESCRIPTION

SILTY CLAY

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 4
DATE: 25/4/2013
EXP.: 338
SITE/HOLE: C0021B
CORE: 01H
SECTION: 4
TOP DEPTH (m CSF):



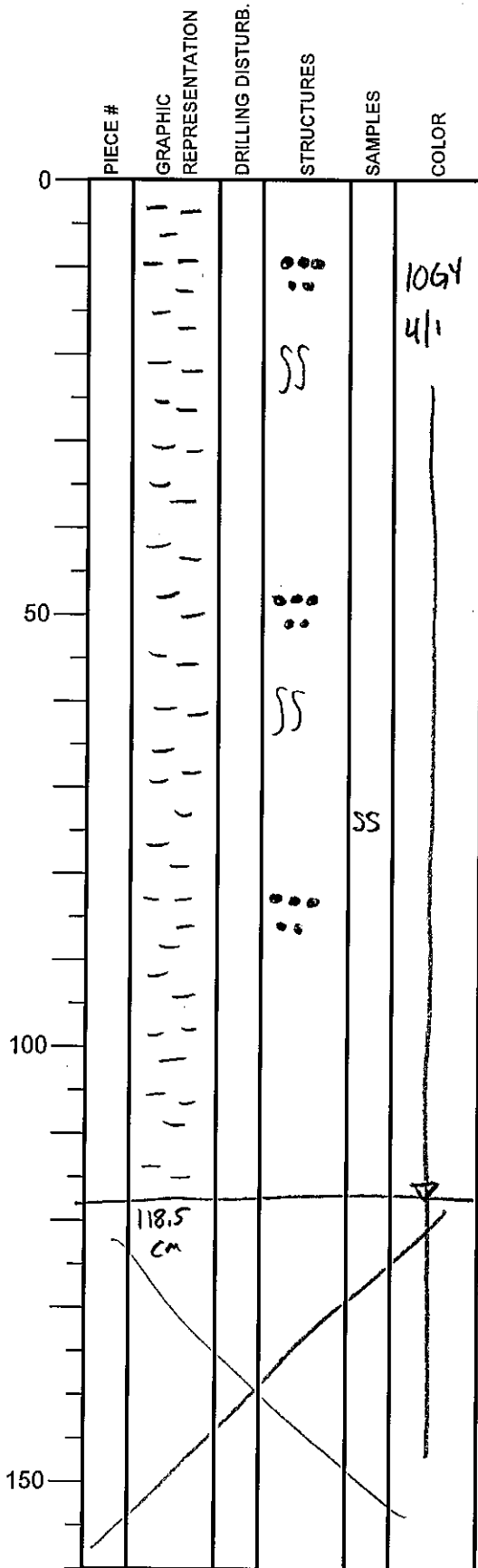
SECTION DESCRIPTION

OBSERVER: D. SAWYER

~~NO~~
WHOLE CORE ANALYSIS
NO SECTION TO DESCRIBE

Integrated Ocean Drilling Program Visual Core Description

NO. 5
 DATE: 25/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 01H
 SECTION: 05
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY
~~homogeneous~~ mottled

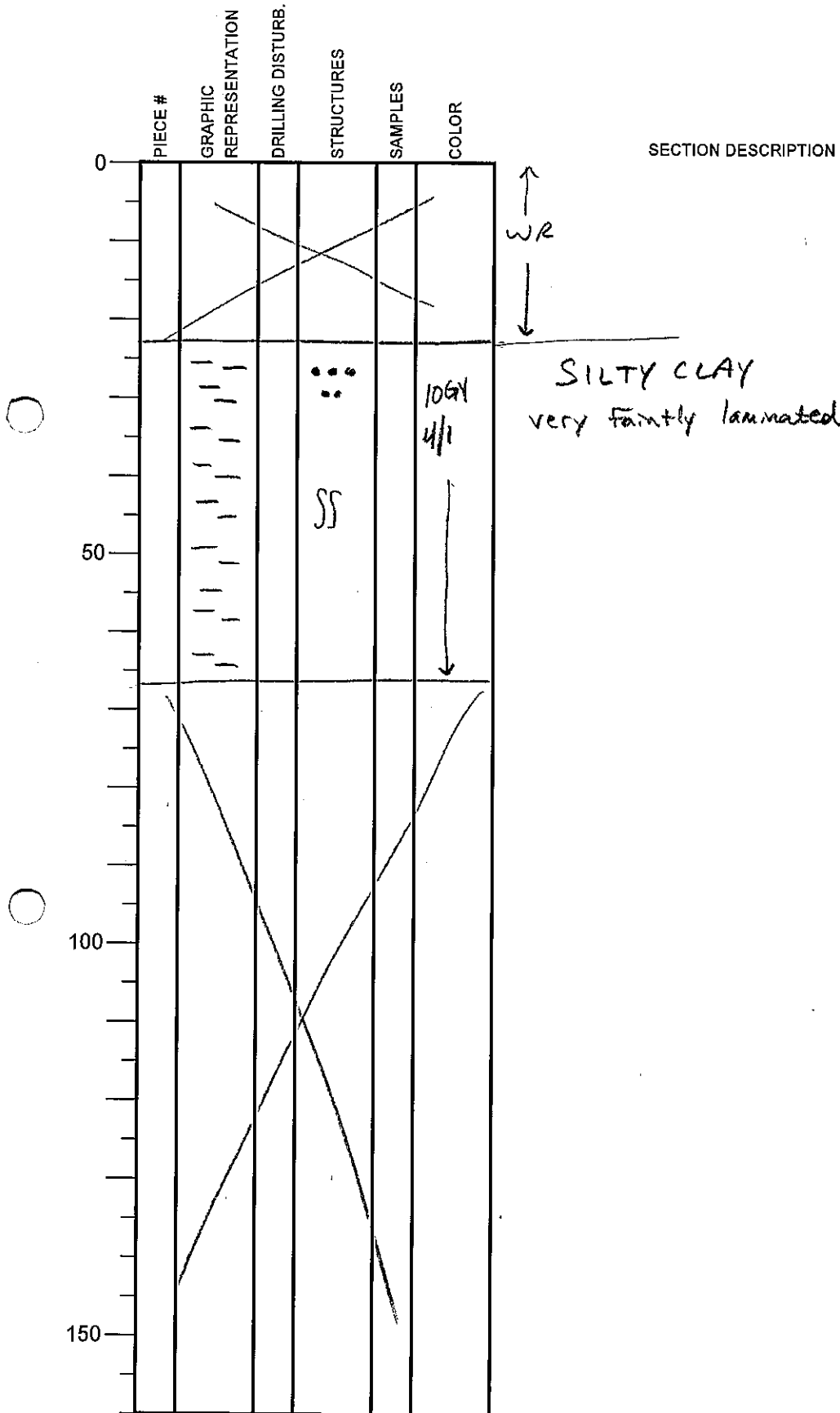
SS 75cm : see data sheet

OBSERVER:
 D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. **6**
 DATE: **25/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **01H**
 SECTION: **6**
 TOP DEPTH (m CSF):

OBSERVER:
D. SAWYER



Integrated Ocean Drilling Program Visual Core Description

NO. **7**
 DATE: **25/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **01H**
 SECTION: **CC**
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			-			1064 4/1
50		24 cm				
100						
150						

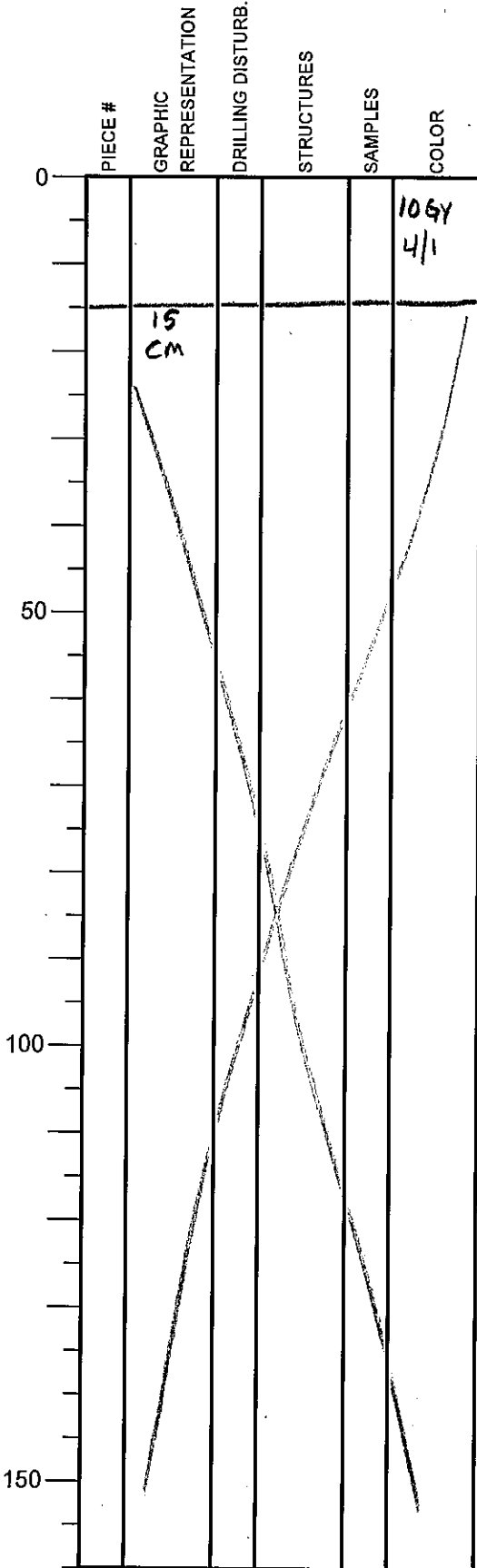
SECTION DESCRIPTION

SILTY CLAY

OBSERVER:
D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. **8**
 DATE: **25/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021 B**
 CORE: **02H**
 SECTION: **01**
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

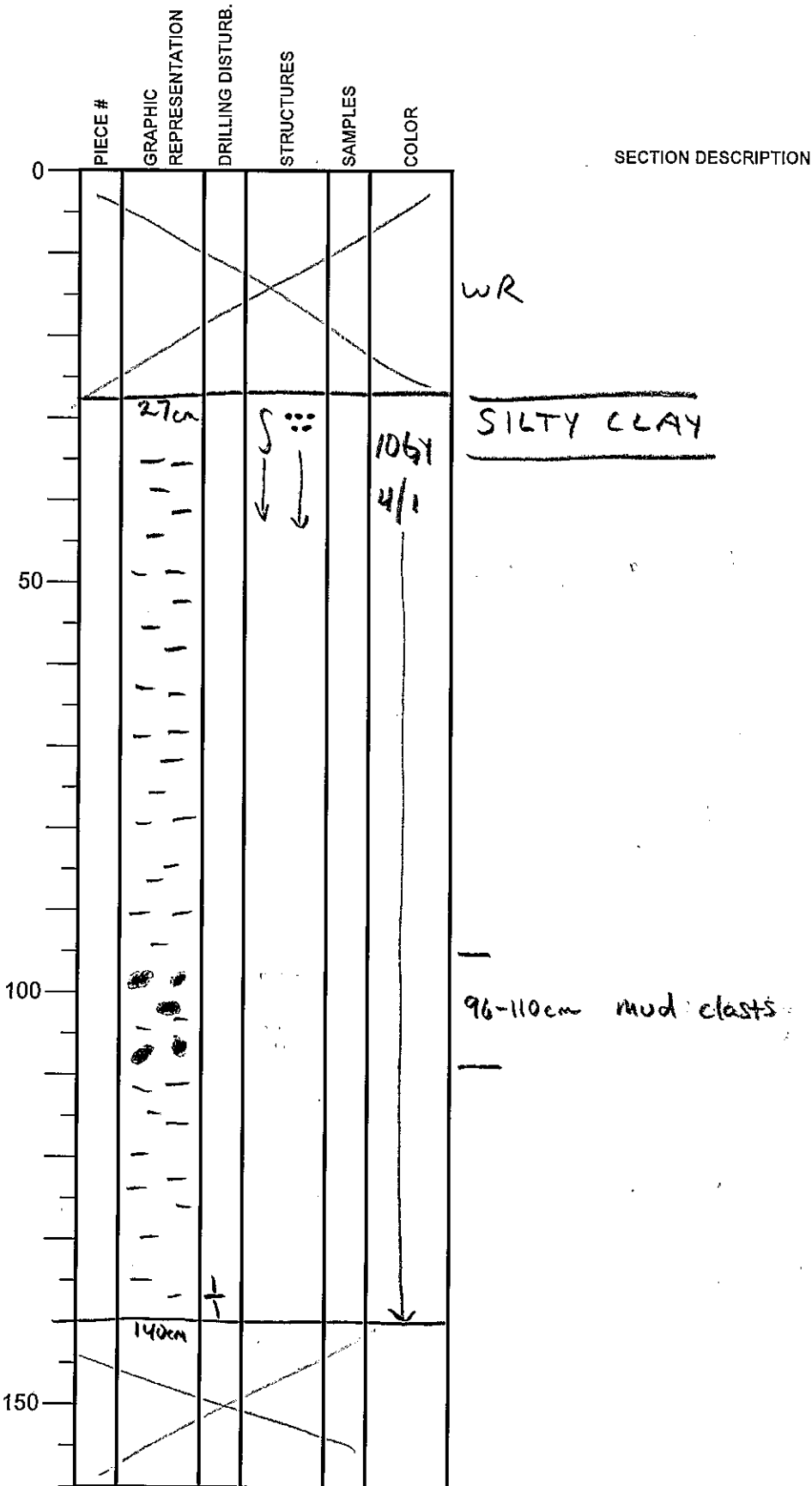
SILTY CLAY

OBSERVER: **D. SAWYER**

Integrated Ocean Drilling Program Visual Core Description

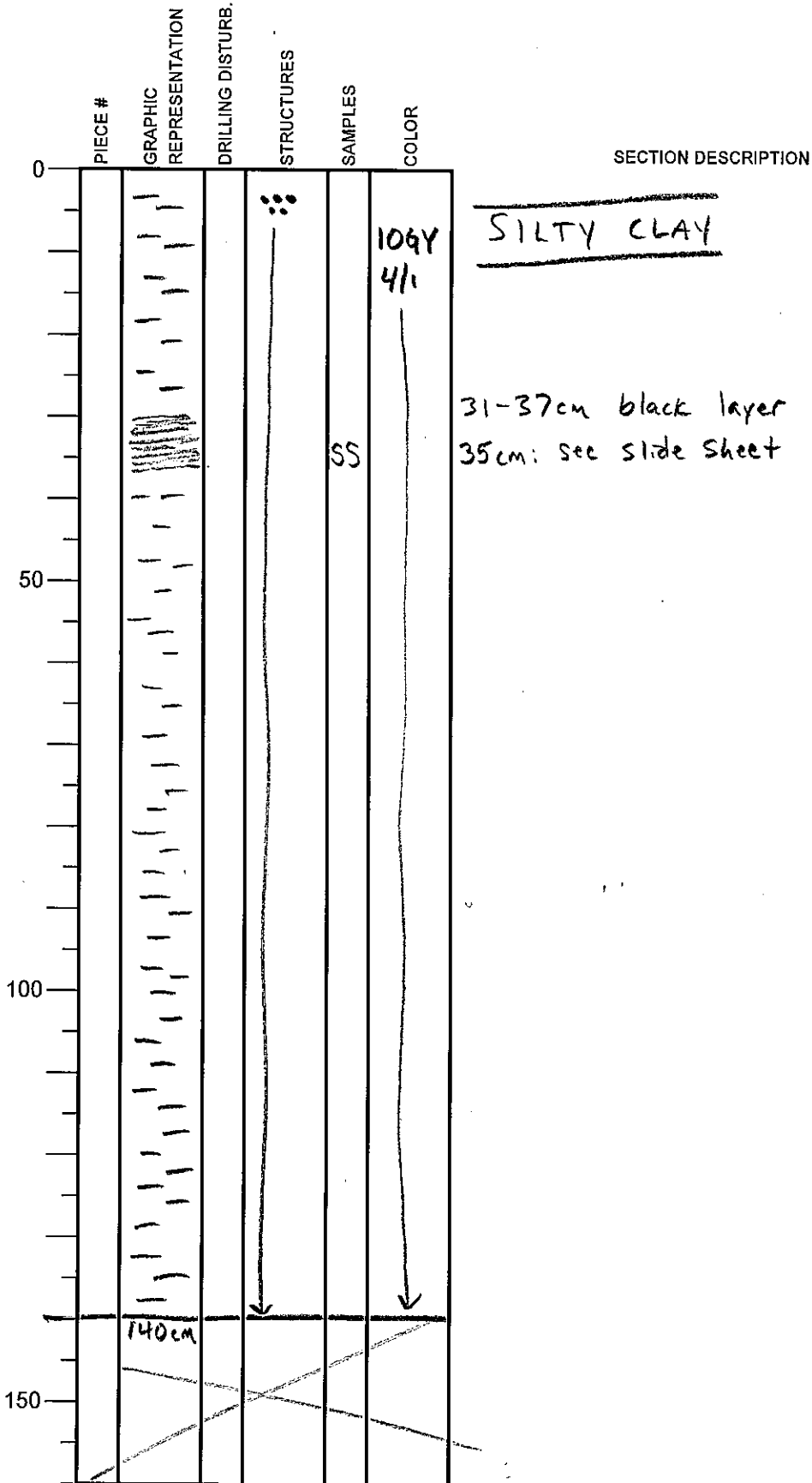
NO. 9
 DATE: 25/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: O2H
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



Integrated Ocean Drilling Program Visual Core Description

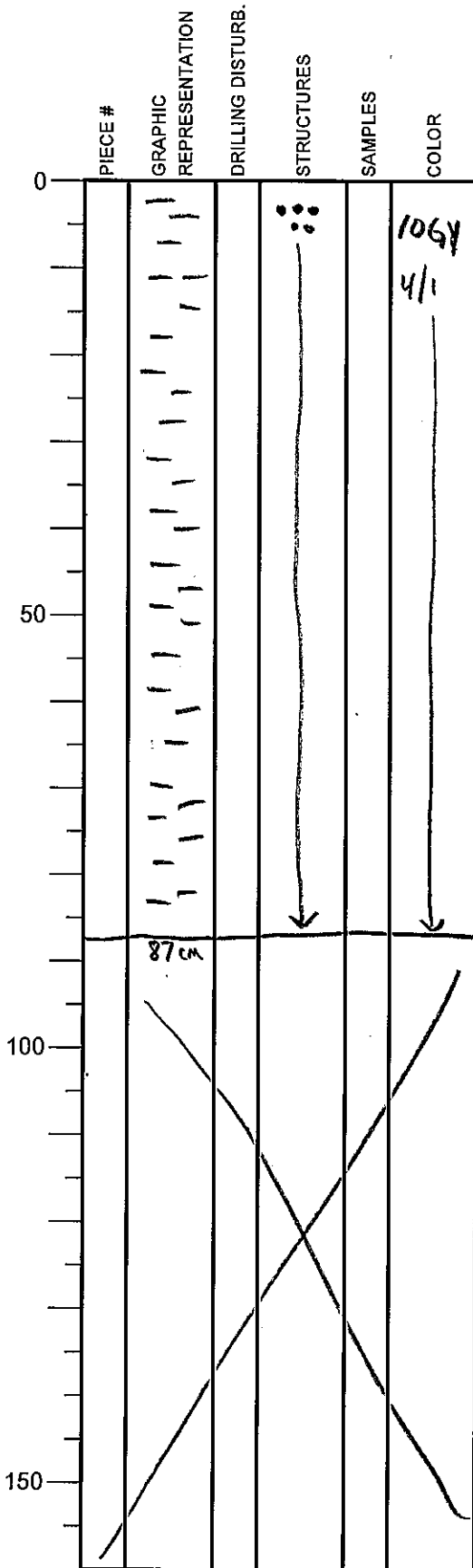
NO. 10
 DATE: 25/4/2013
 EXP.: 332
 SITE/HOLE: C0021B
 CORE: 02H
 SECTION: 4
 TOP DEPTH (m GSF):



OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

No. 11
 DATE: 25/4/20
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 02H
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

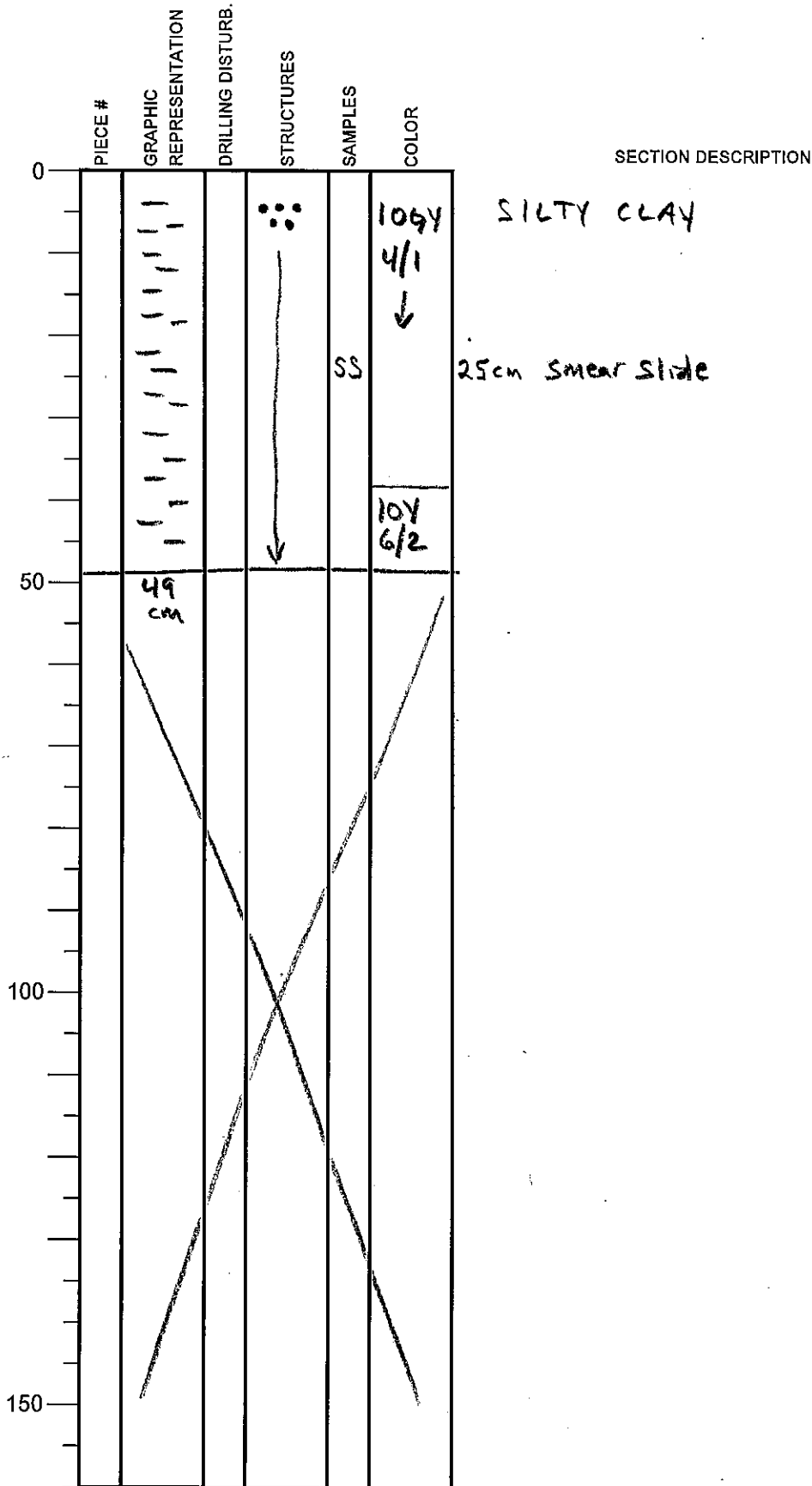
SILTY CLAY

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program

Visual Core Description

NO. 12
 DATE: 25/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 02 H
 SECTION: 6
 TOP DEPTH (m CSF):

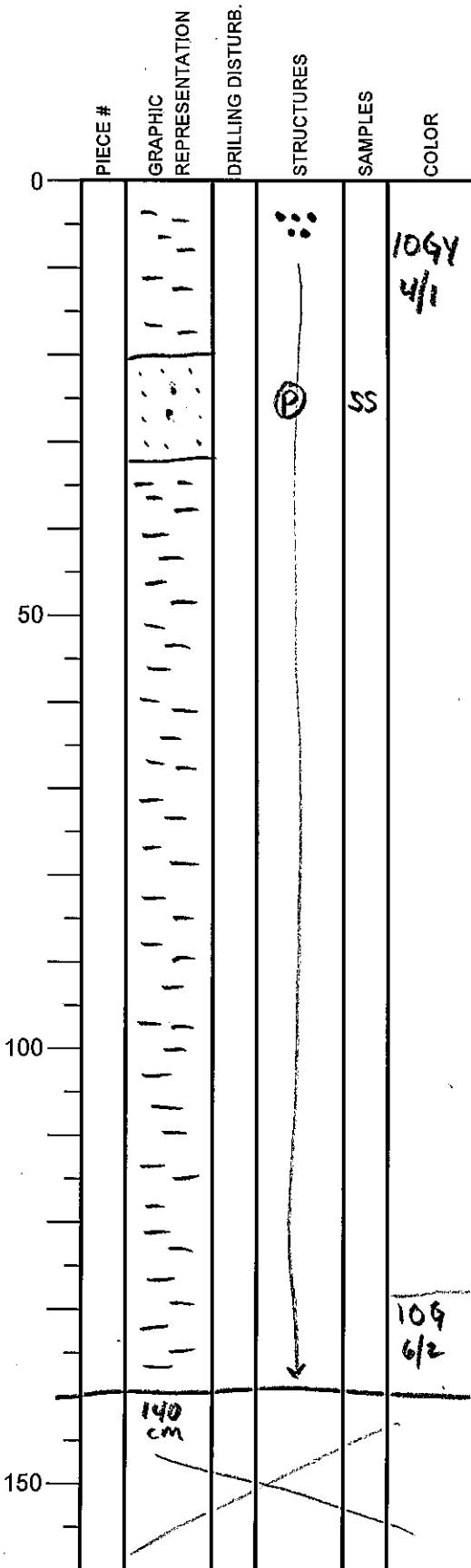


OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

No. 13
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 02H
 SECTION: 7
 TOP DEPTH (m CSF):

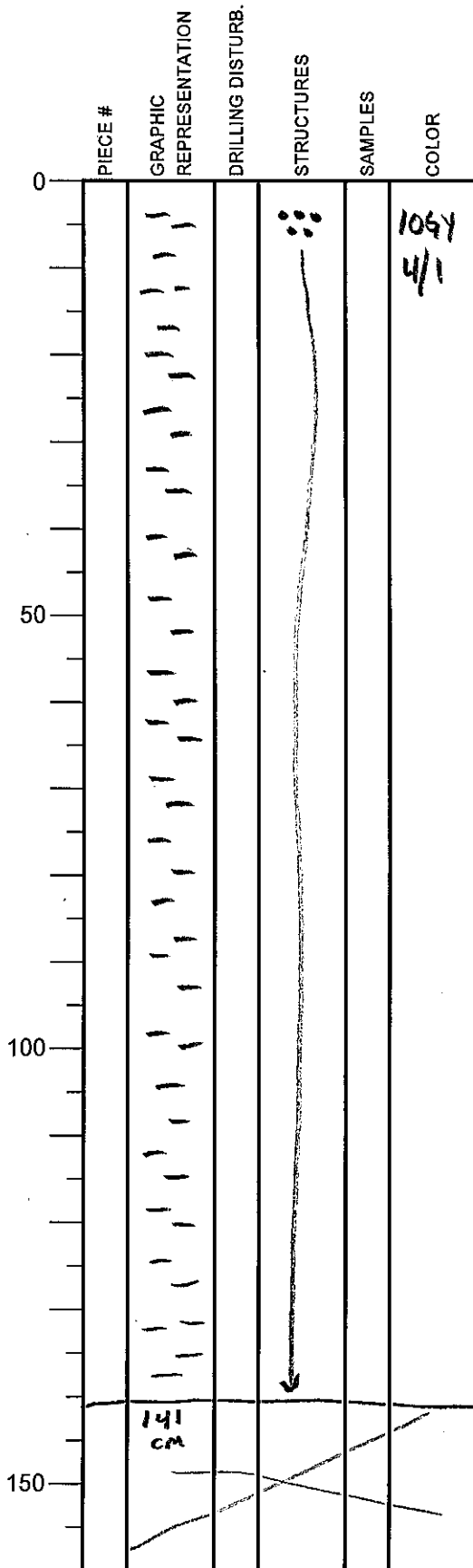
OBSERVER: D. SAWYER



Integrated Ocean Drilling Program Visual Core Description

NO. 14
 DATE: 8/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 024
 SECTION: 8
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

30cm: nodule high CT value

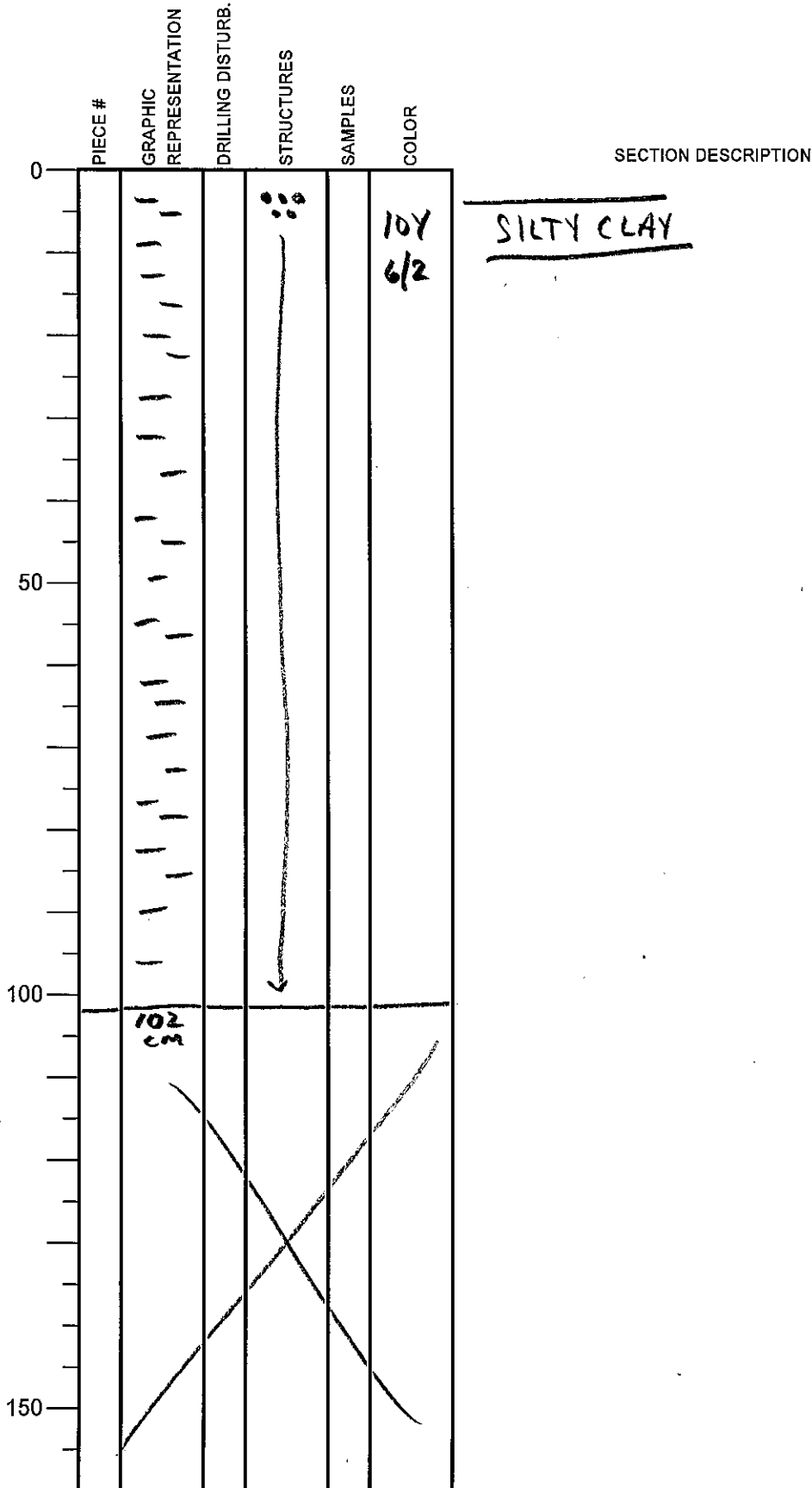
52cm: isolated mud clast

Integrated Ocean Drilling Program

Visual Core Description

NO. 15
DATE: 25/4/2013
EXP.: 138
SITE/HOLE: C0021B
CORE: 02H
SECTION: 9
TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



**Integrated Ocean Drilling Program
Visual Core Description**

NO. 16
 DATE: 5/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 02H
 SECTION: 10
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			••••		1064 4/1
	VOID				
	VOID				
	VOID				
50	VOID				
	VOID				
100					
150	139 cm	/ /	/ /		

SECTION DESCRIPTION
SILTY CLAY

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 17
 DATE: 25/4/2013
 EXP.: 338
 SITE/HOLE: C00218
 CORE: 02H
 SECTION: CC
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		[Hand-drawn vertical lines representing core texture]	[Hand-drawn symbols for drilling disturbance]			10Y 6/2
50		[Hand-drawn vertical lines representing core texture]	[Hand-drawn symbols for drilling disturbance]			
100		[Hand-drawn vertical lines representing core texture]	[Hand-drawn symbols for drilling disturbance]			
150		[Hand-drawn vertical lines representing core texture]	[Hand-drawn symbols for drilling disturbance]			

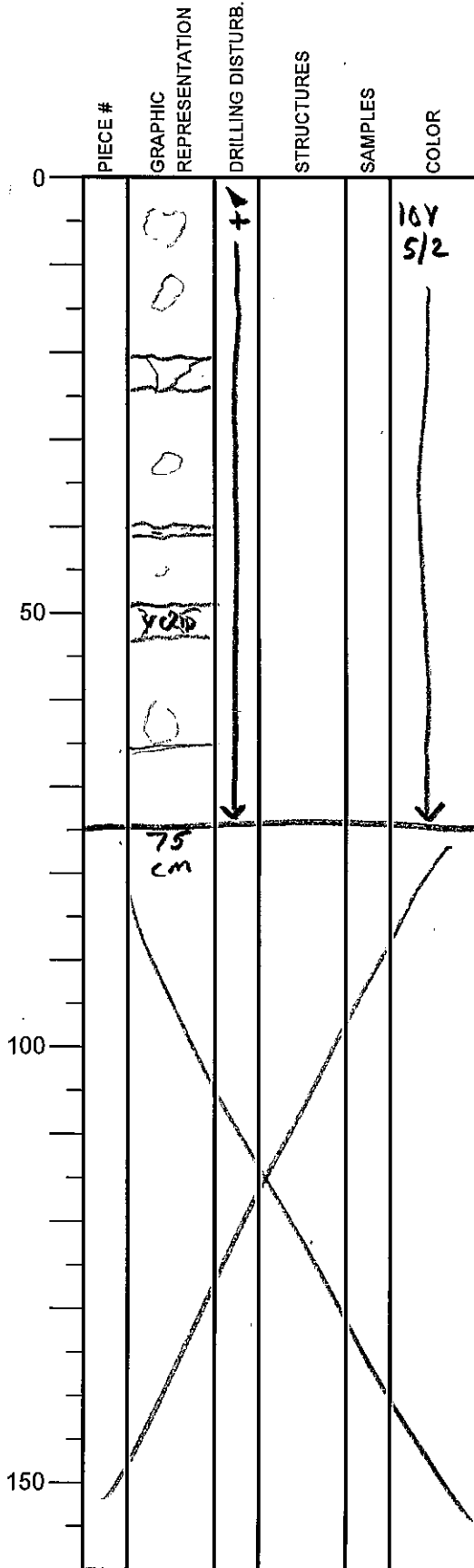
SECTION DESCRIPTION

SILTY CLAY

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 18
 DATE: 26/4/2013
 EXP.: 339
 SITE/HOLE: C0021 B
 CORE: 03H
 SECTION: 01
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY

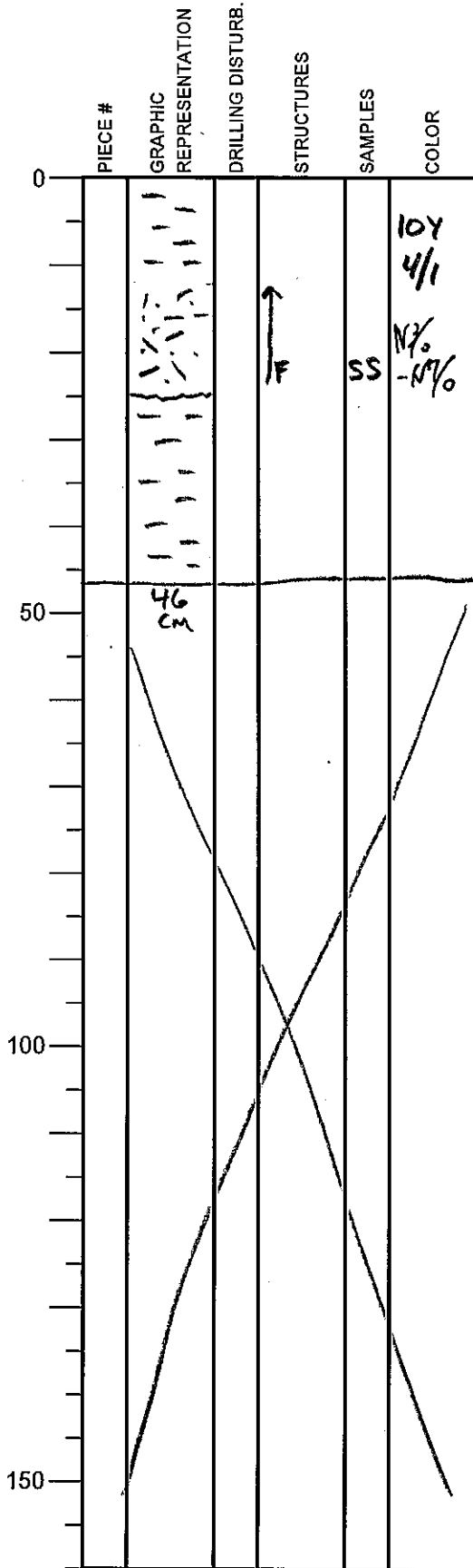
OBSERVER: D. SAWYER

Note: Heavy disturbance - Replaced liner.

Integrated Ocean Drilling Program

Visual Core Description

NO. 19
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 03H
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

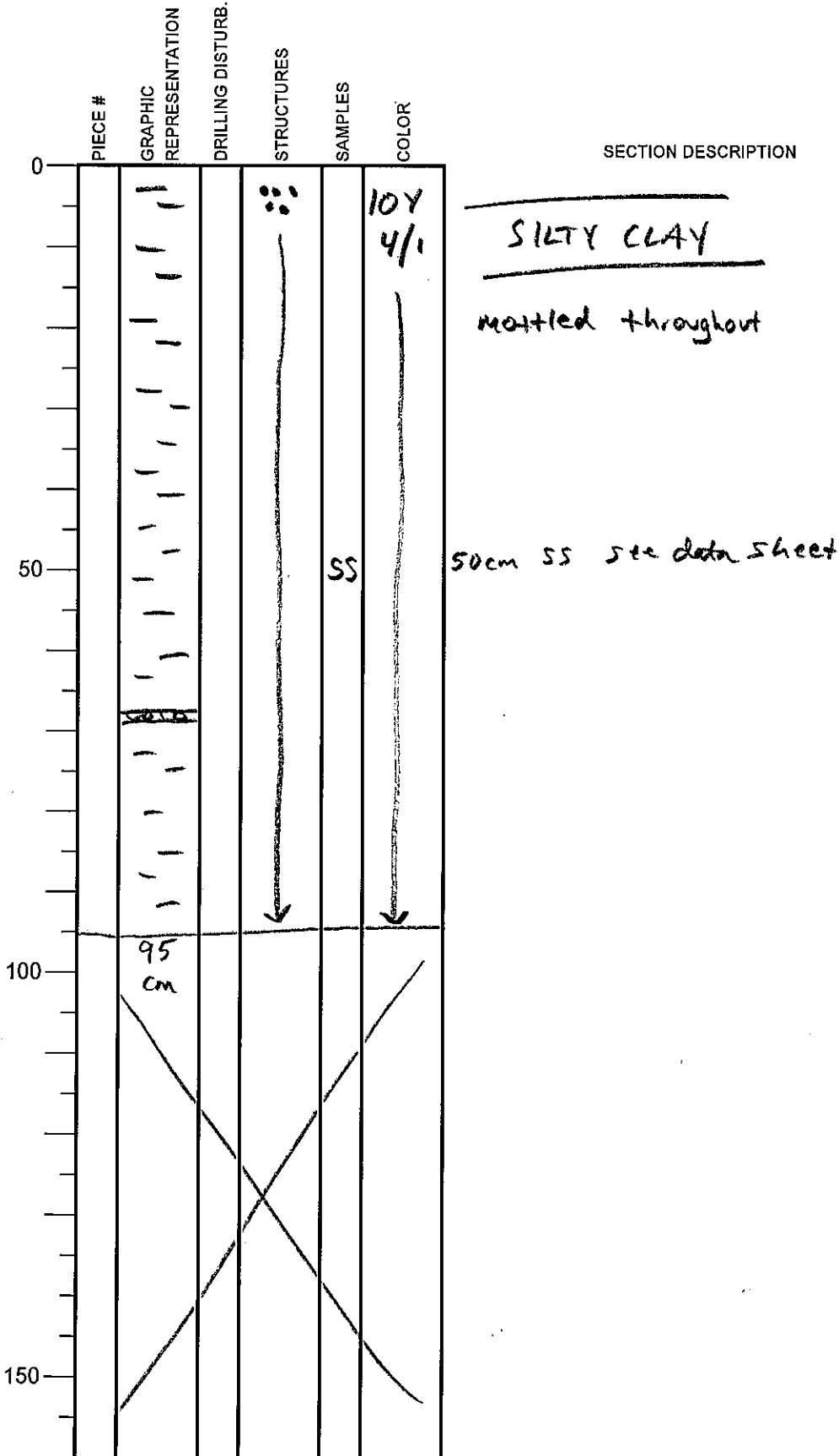
OBSERVER: D. SAWYER

SILTY CLAY
 13-24cm: volcaniclastic sand, fining upward, sharp base, gradational top, dark at base, light at top
 23cm SS, see data sheet.

Integrated Ocean Drilling Program Visual Core Description

NO. 20
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 3H
 SECTION: 3
 TOP DEPTH (m CSF):

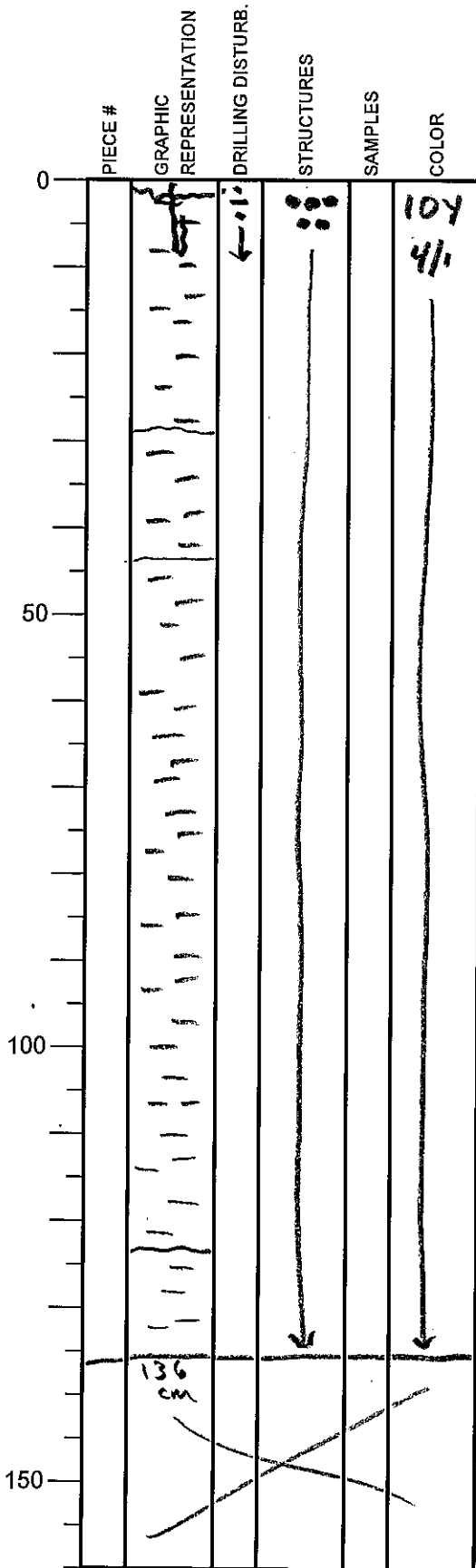
OBSERVER: D.SAWYER



Integrated Ocean Drilling Program

Visual Core Description

NO. 21
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 3H
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: D. SAWYER

SILTY CLAY

0-9 cm moderate disturbance

29-34 cm slight color change and density contrast in CT

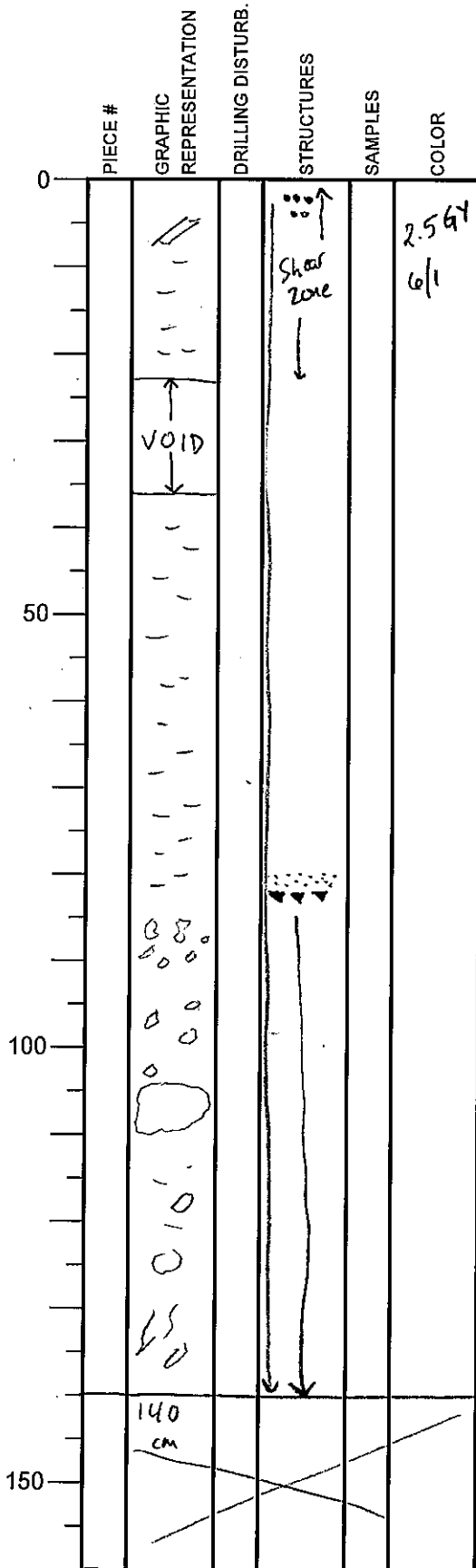
mottled throughout

123 cm contrast observed in CT, subtle in visual

Integrated Ocean Drilling Program Visual Core Description

NO. **22**
 DATE: **2/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **03H**
 SECTION: **6**
 TOP DEPTH (m GSF):

OBSERVER: **D. SAWYER**



SECTION DESCRIPTION

SILTY CLAY

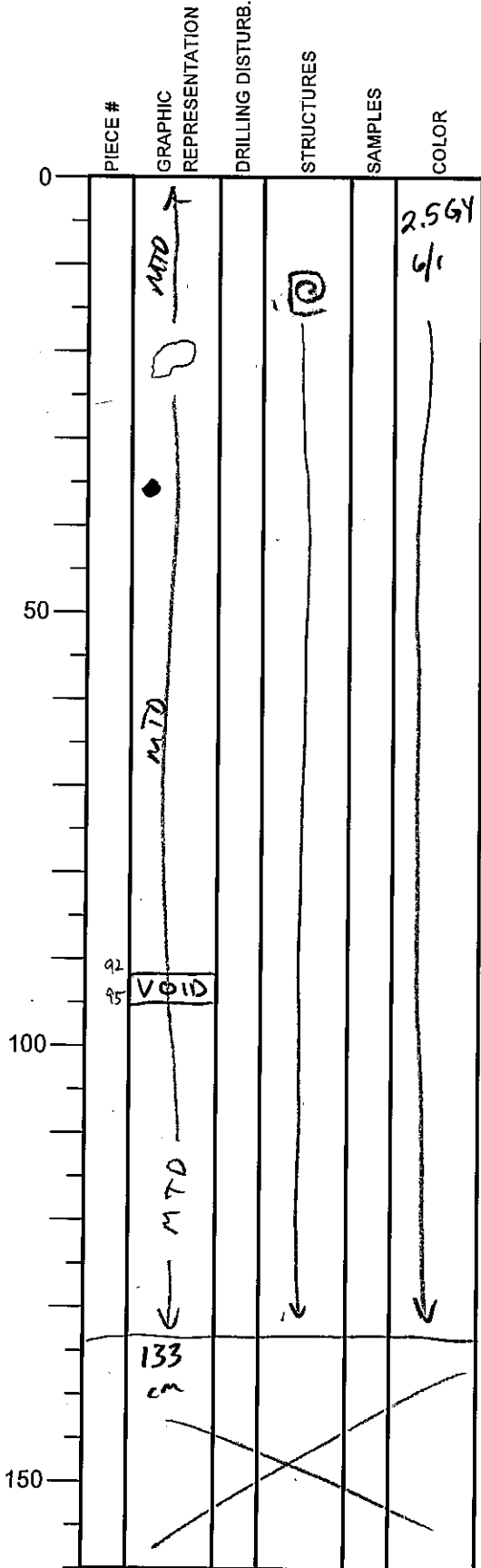
MTD throughout section.
 degree of deformation increases toward base of section. mud clasts present 83cm to base of section. top of MTD not obvious. mud clasts are 1-3cm in longest dimension and round. mottled throughout. 0-83cm subtle evidence of possible MTD related deformation.

88cm: coarser lens.
 83cm: mud clasts begin.

104-110cm: large mud clast

Integrated Ocean Drilling Program Visual Core Description

NO. 23
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 3H
 SECTION: 7
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:
D. SAWYER

SILTY CLAY

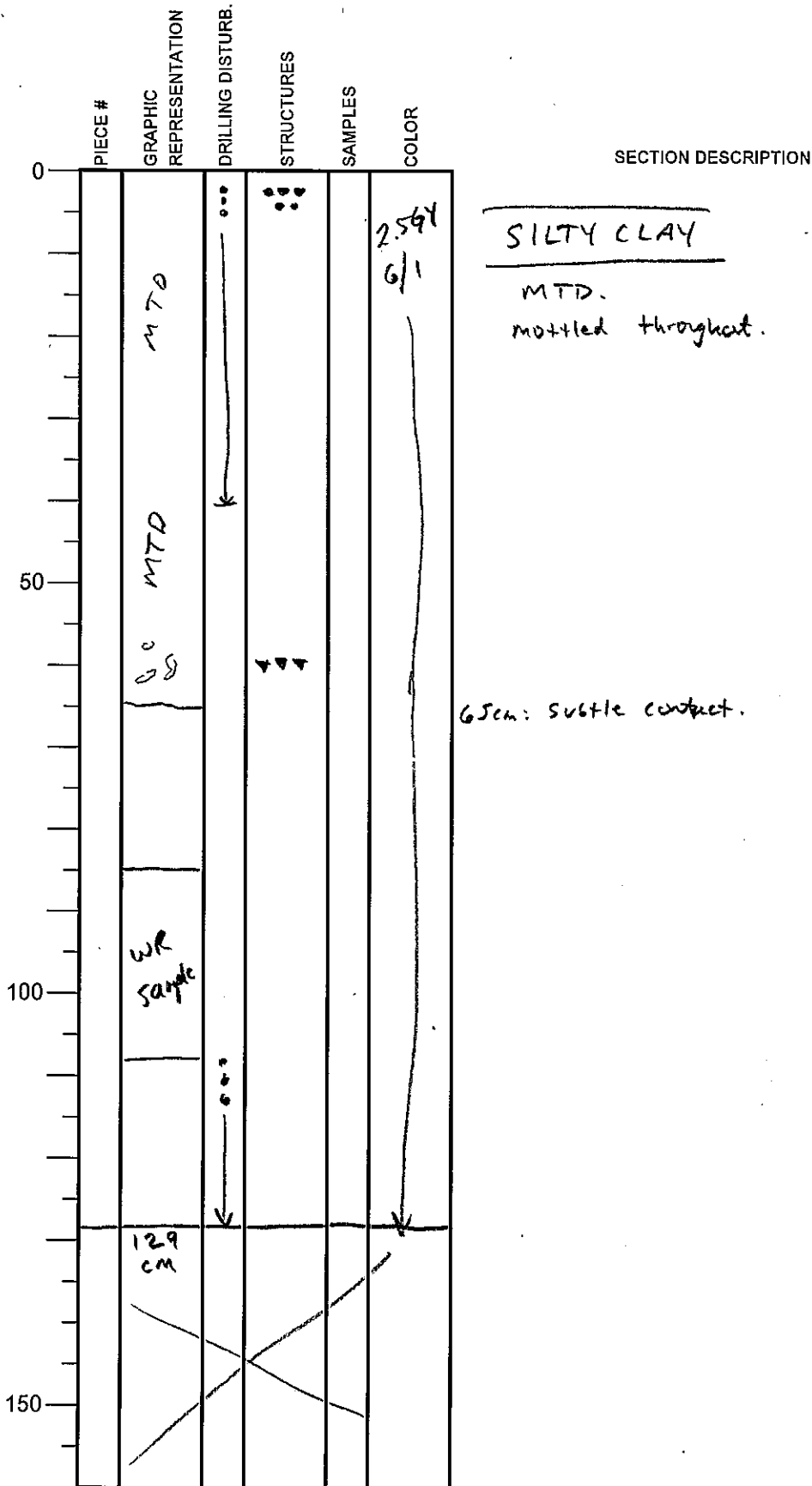
MTD throughout. mud clasts and pervasive soft sediment deformation. Chaotic bedding

35cm: Isolated nodule (indicated)

Integrated Ocean Drilling Program Visual Core Description

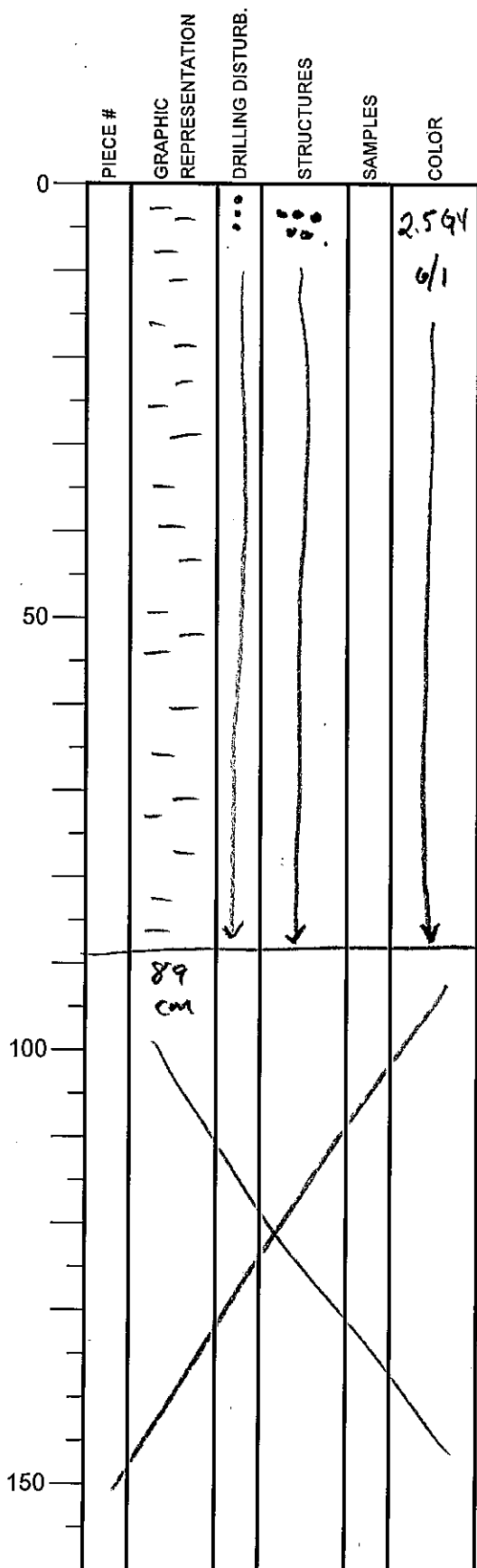
NO. 24
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 3H
 SECTION: 8
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



Integrated Ocean Drilling Program Visual Core Description

NO. 25
DATE: 2/4/2013
EXP.: 338
SITE/HOLE: C0021B
CORE: 3H
SECTION: 9
TOP DEPTH (m GSF):



SECTION DESCRIPTION

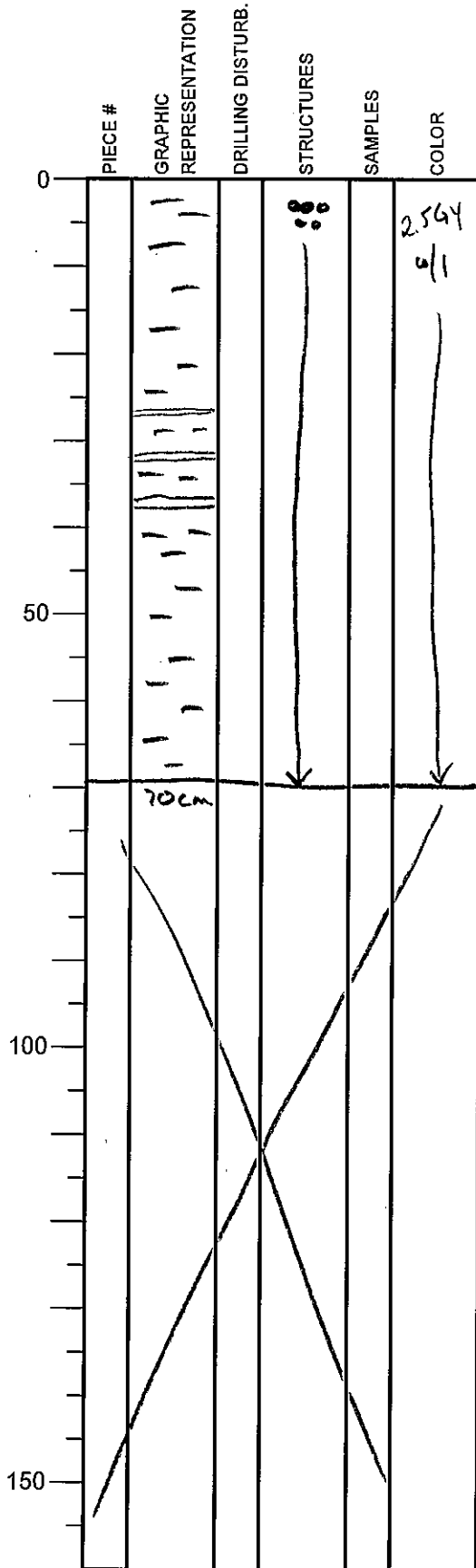
OBSERVER: D. SAWYER

SILTY CLAY

mottled. No obvious MTD in visual or CT.

Integrated Ocean Drilling Program Visual Core Description

NO. **26**
 DATE: **26/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **3H**
 SECTION: **10**
 TOP DEPTH (m CSF):



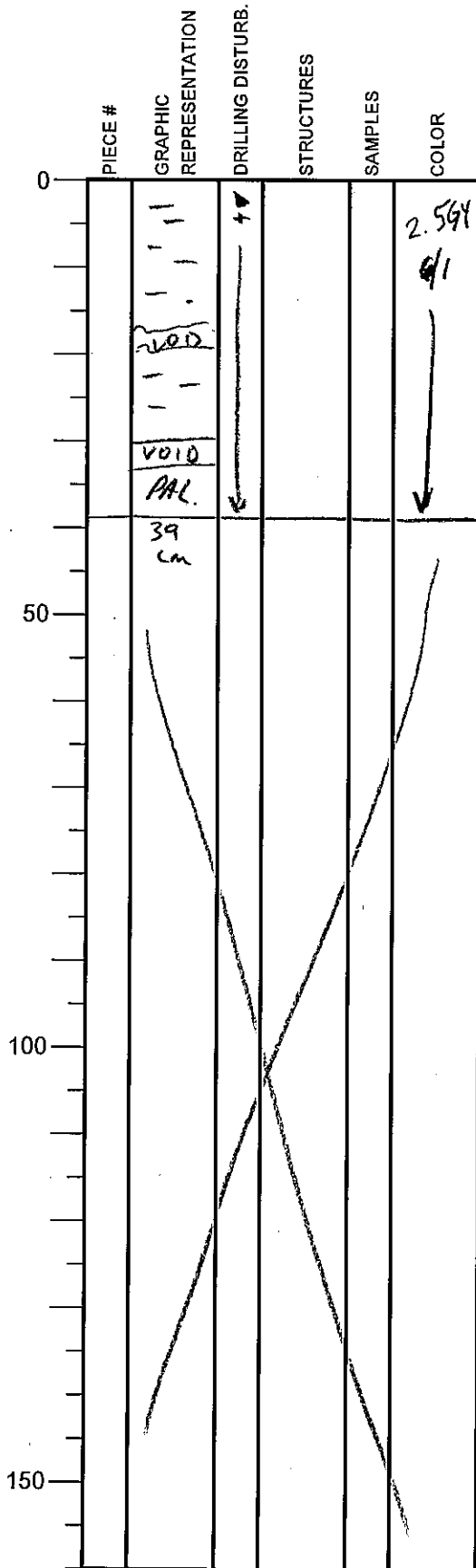
SECTION DESCRIPTION

SILTY CLAY

OBSERVER: **D. SAWYER**

Integrated Ocean Drilling Program Visual Core Description

NO. 27
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C00218
 CORE: 3#
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 28
 DATE: / /20
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 4H
 SECTION: 01
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				—		1064 S/I
50		•••••		(C) •••••		
100		/ / / / /		↓ fitted bedding		
150	140 cm	/ / / / /		X		

SECTION DESCRIPTION

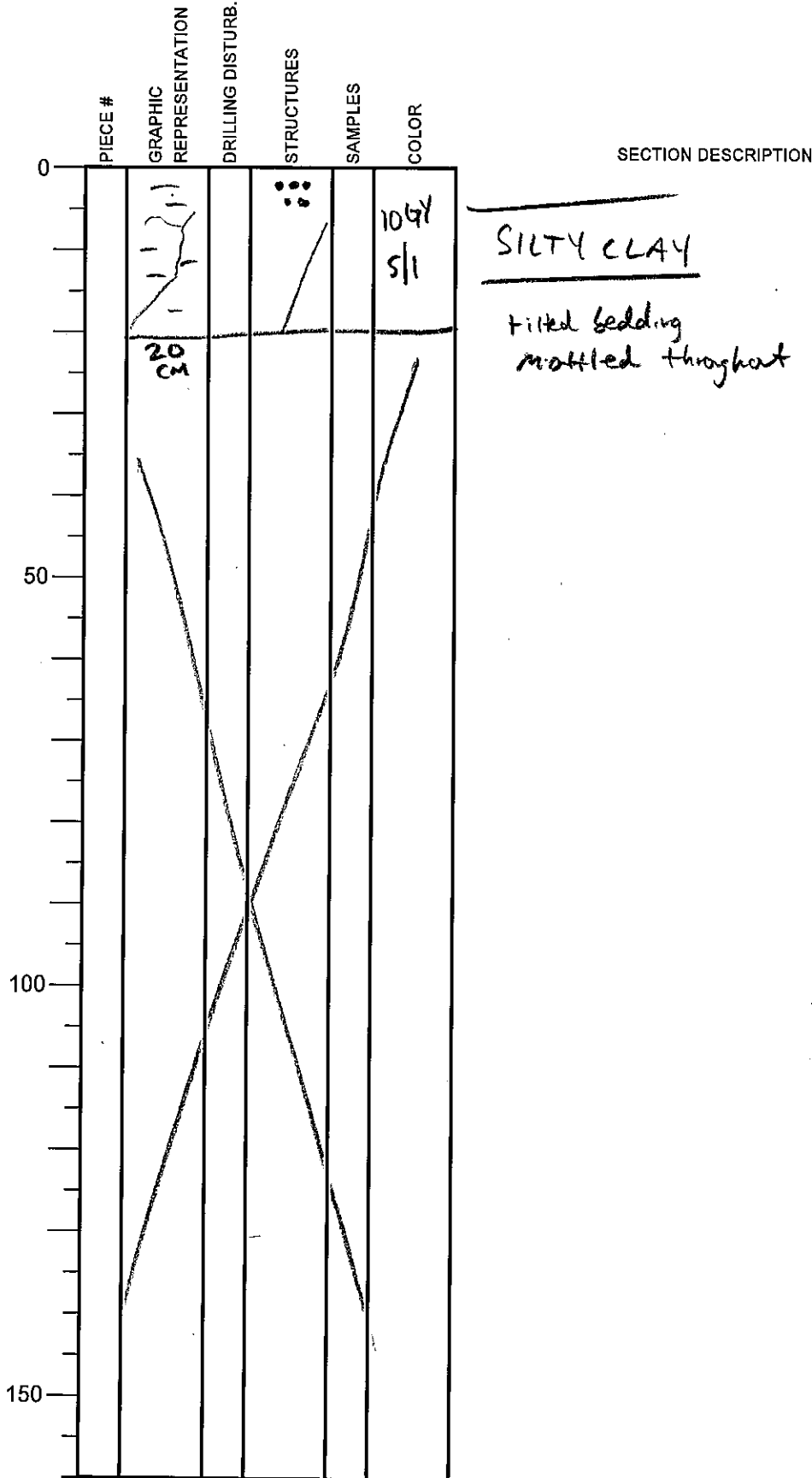
SILTY CLAY

40-100cm: scattered pebble-size silt ^{concretions} nodules
pyrite-coated

90-140cm: fitted bedding

Integrated Ocean Drilling Program Visual Core Description

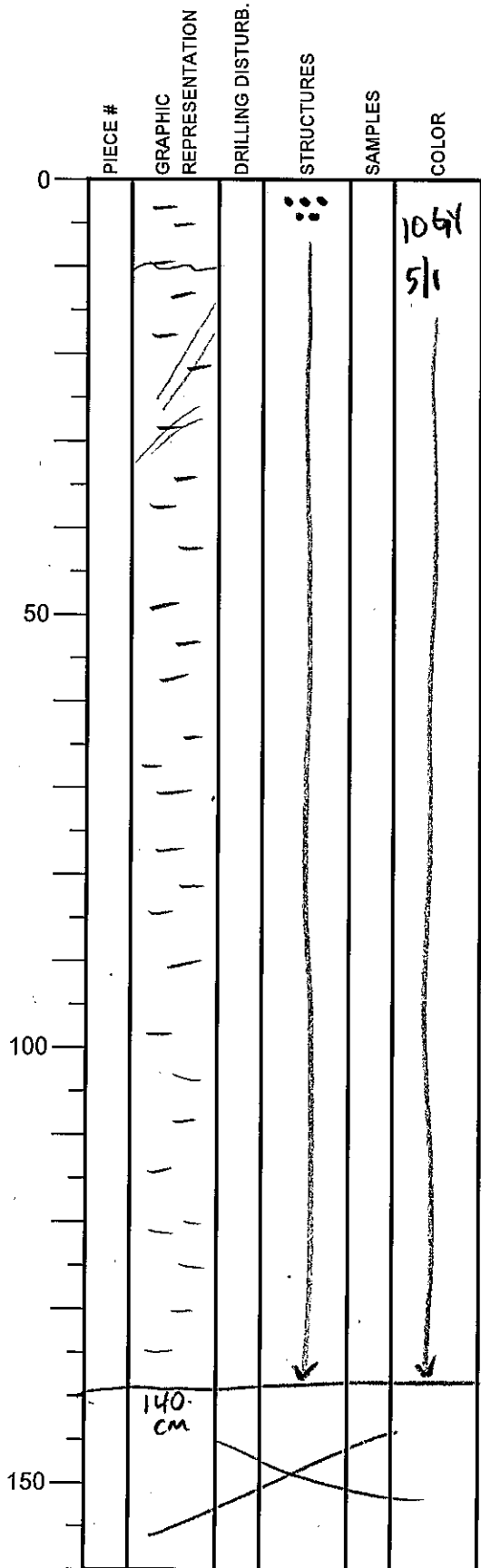
NO. 29
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 4H
 SECTION: 2
 TOP DEPTH (m CSF):



OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 30
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 4H
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: D. SAWYER

SILTY CLAY

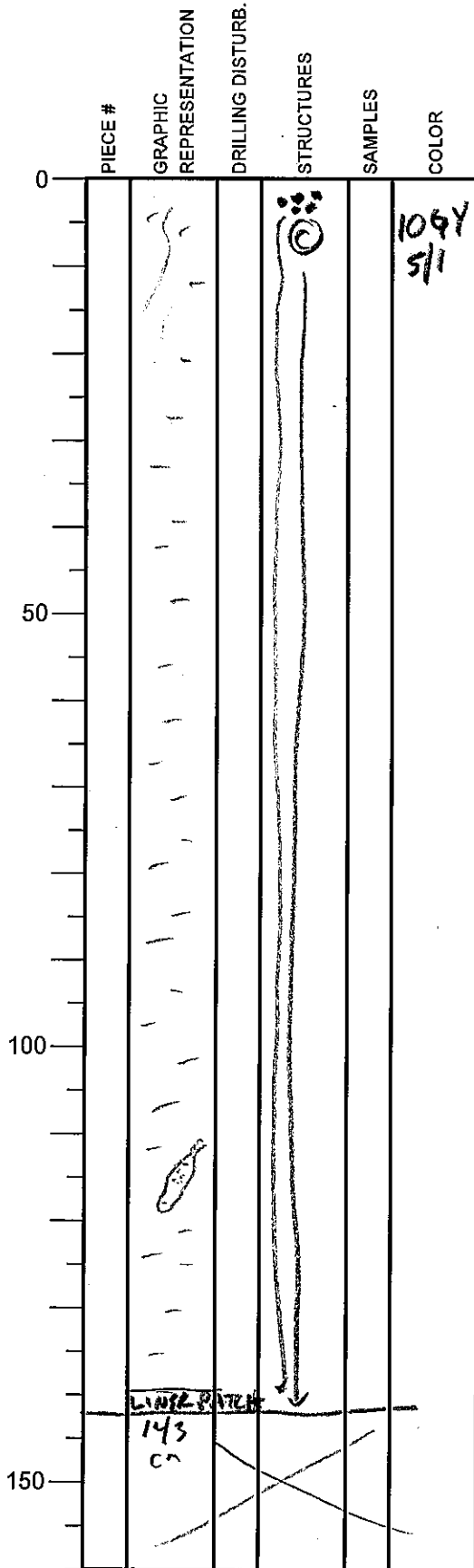
~~40m~~ tilted bedding
 mottled throughout

Integrated Ocean Drilling Program

Visual Core Description

NO. 31
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 04H
 SECTION: 4
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

Subtle chaotic bedding throughout
 mottled throughout

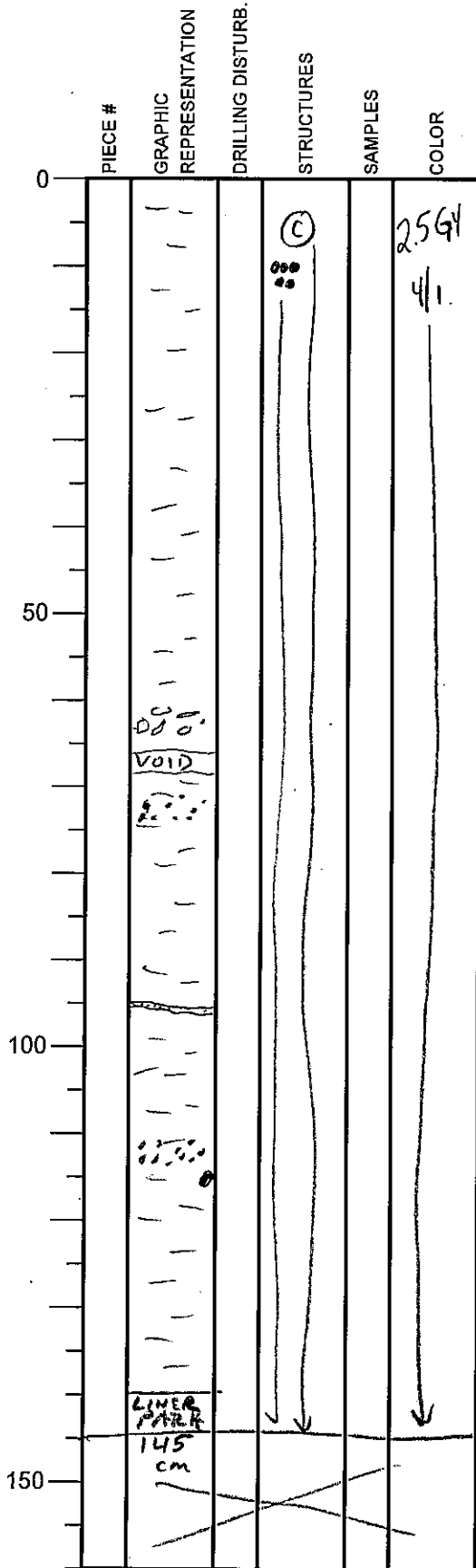
117-120 cm: silt/sand-filled burrow

Integrated Ocean Drilling Program

Visual Core Description

NO. 32
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C00213
 CORE: 4#
 SECTION: 5
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

Chaotic bedding throughout
 Mottled throughout.

62-64cm: isolated patches of ash/sand (white)

71-75cm: isolated black spots (ash?)

95cm: coarse layer ash/sand

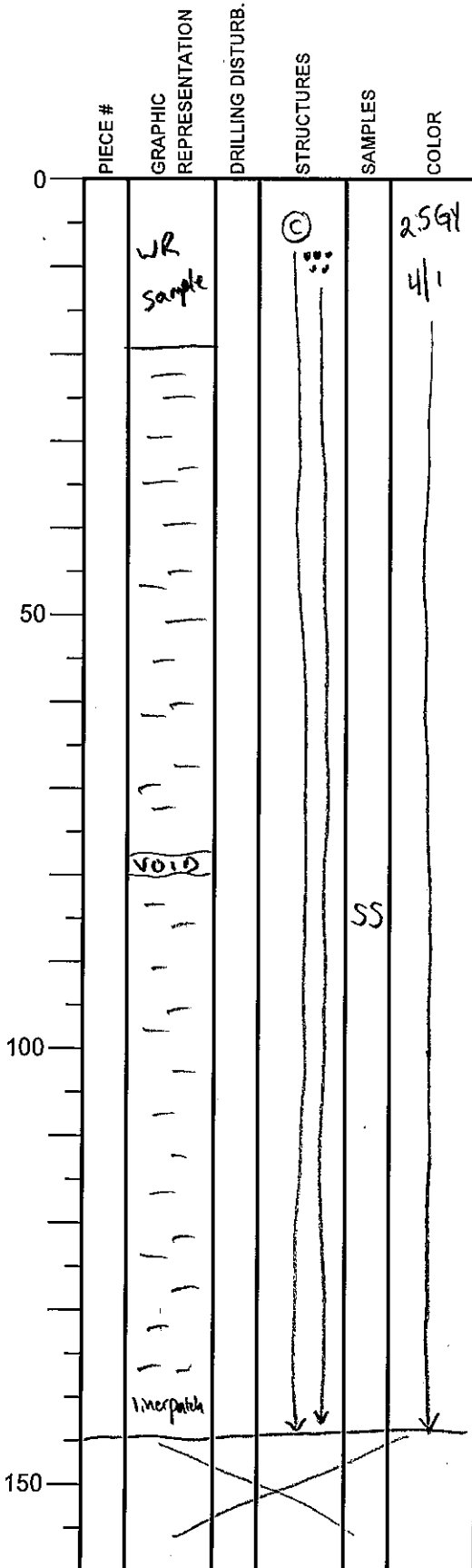
110-113cm: isolated black spots (ash?)

115cm: hard concretions (pyritized silt)

Integrated Ocean Drilling Program Visual Core Description

NO. 33
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 4H
 SECTION: 6
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

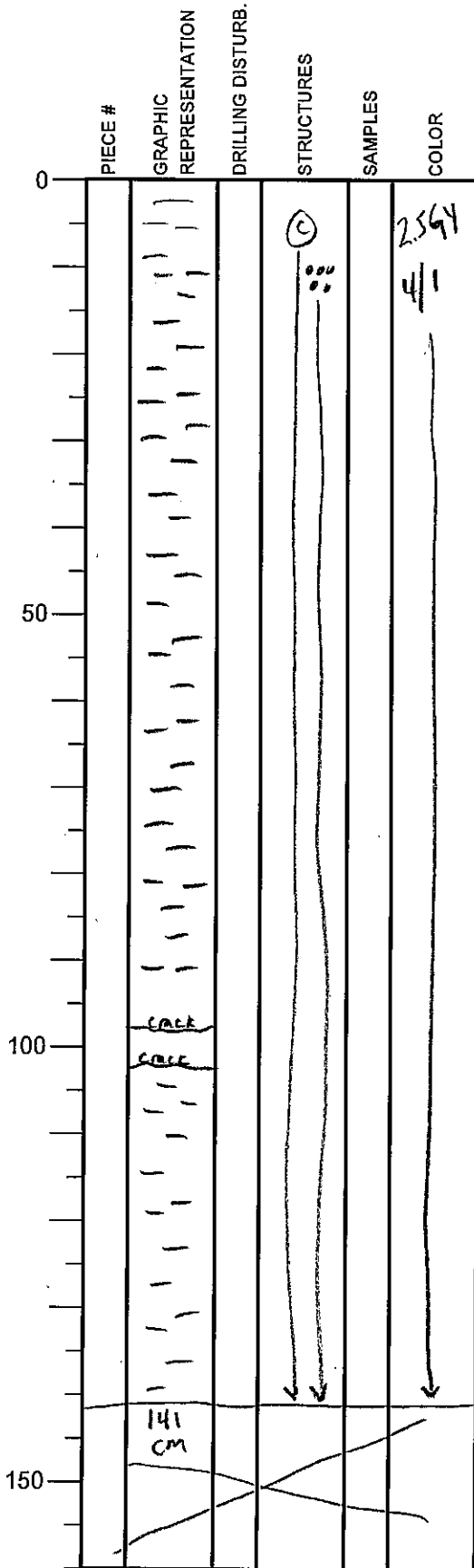
chaotic bedding, tilted bedding
 mottled throughout

85cm: smear slide see data sheet

Integrated Ocean Drilling Program Visual Core Description

NO. 34
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 4H
 SECTION: 7
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



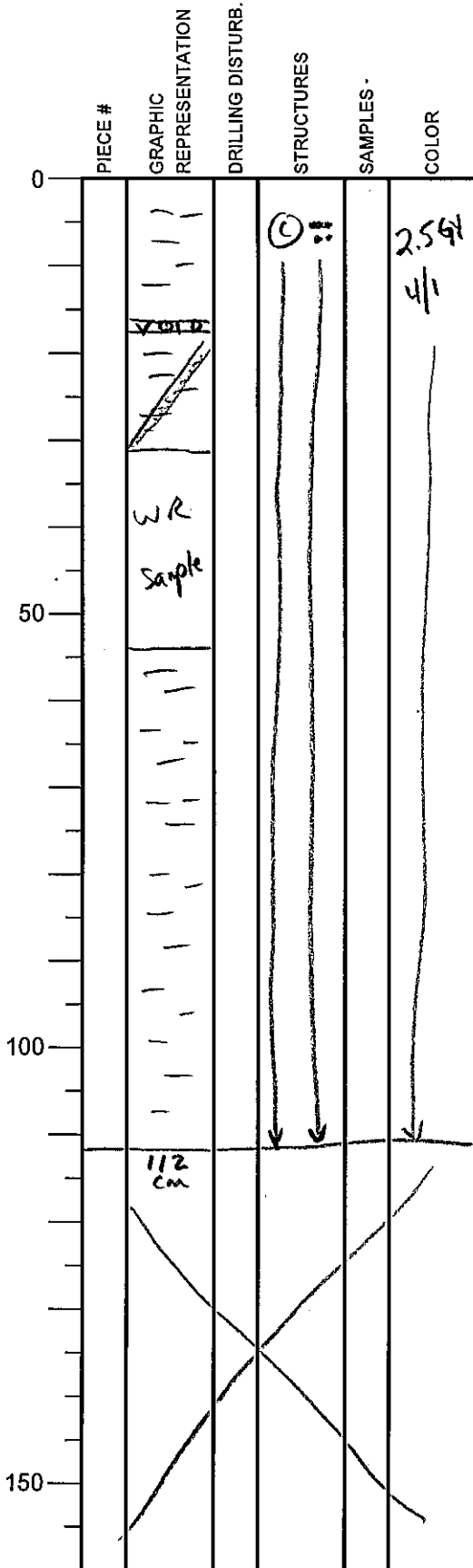
SECTION DESCRIPTION

SILTY CLAY

Chaotic, tilted bedding throughout
 mottled throughout

Integrated Ocean Drilling Program Visual Core Description

NO. 35
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 4H
 SECTION: 8
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY

Chaotic, tilted bedding
 mottled throughout
 20-24cm: tilted coarse layer (sand/silt?)

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 36
DATE: 26/4/2013
EXP.: 338
SITE/HOLE: C0021 B
CORE: 4H
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: D. SAWYER

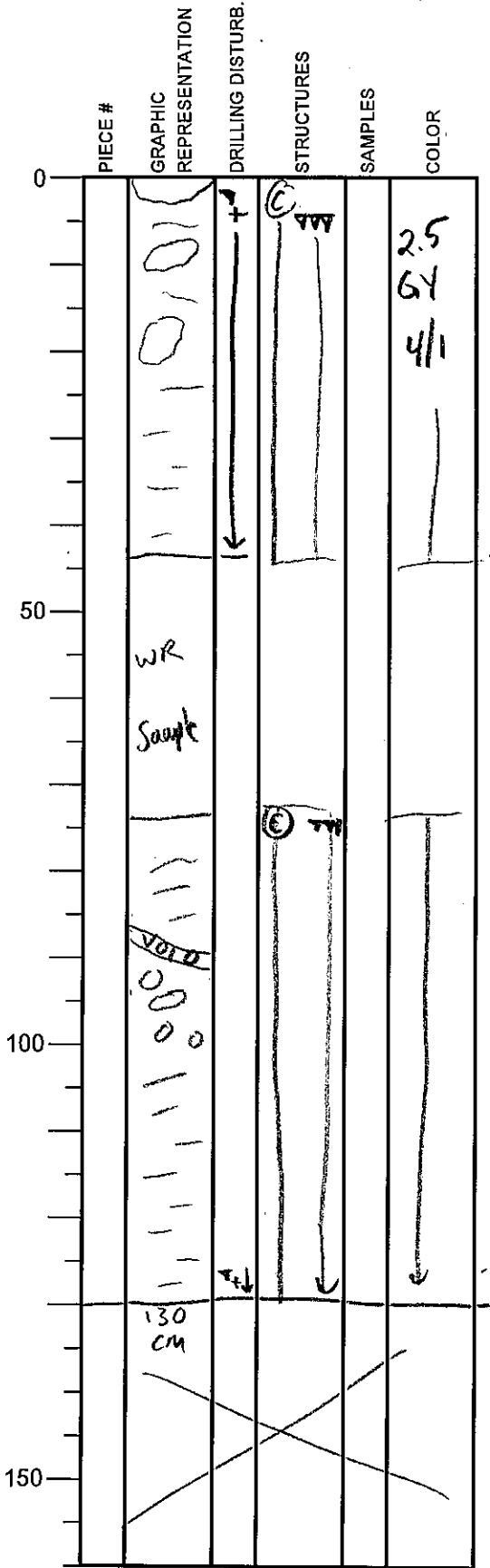
PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
	— — — — — PAL	↓			2.56Y 4/1
0					
50					
100					
150					

SECTION DESCRIPTION

SILTY CLAY

Integrated Ocean Drilling Program Visual Core Description

NO. **37**
 DATE: **26/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **5H**
 SECTION: **1**
 TOP DEPTH (m CSF):



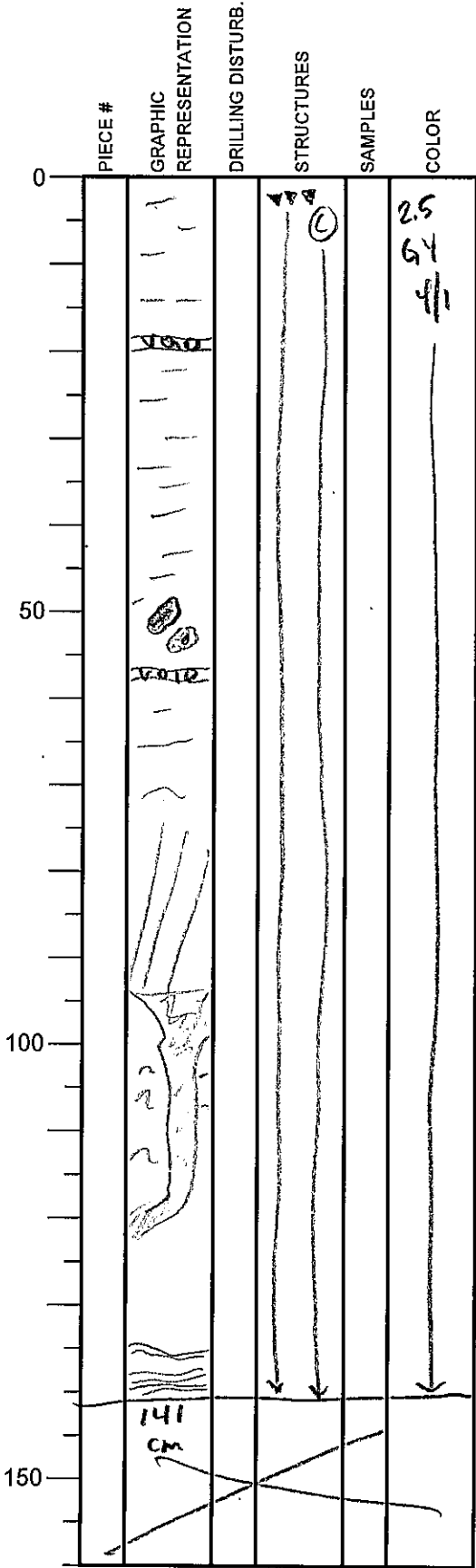
SECTION DESCRIPTION

OBSERVER: **D. SAWYER**

SILTY CLAY
 MTD
 mud clasts, chaotic bedding throughout

Integrated Ocean Drilling Program Visual Core Description

NO. 38
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 5H
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

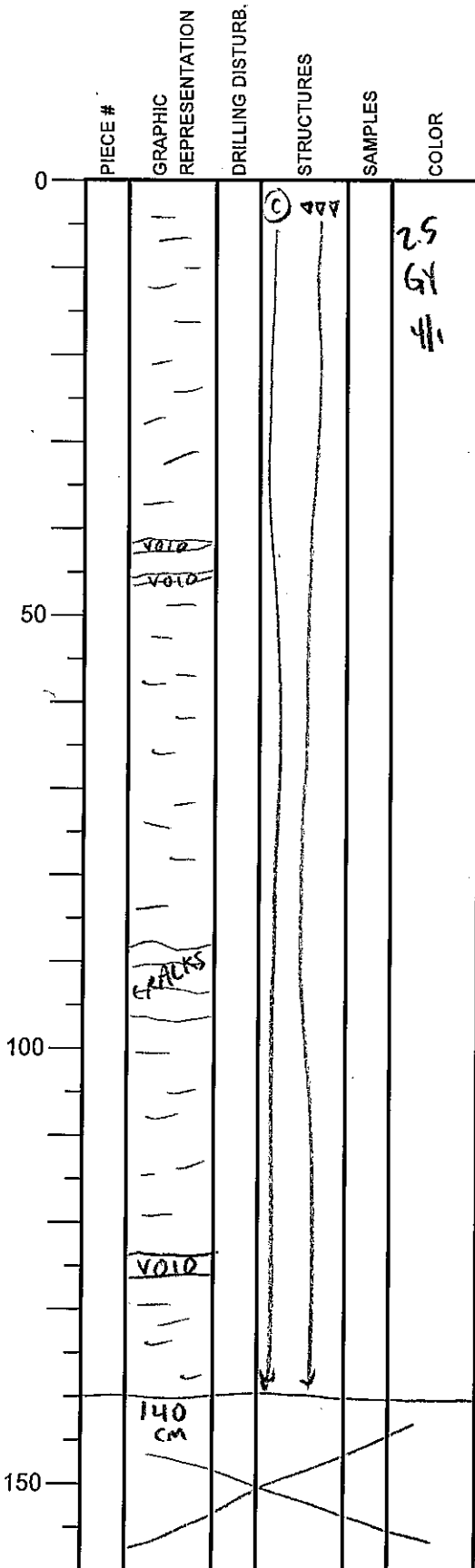
OBSERVER: D.SAWYER

SILTY CLAY
 MTD
 chaotic bedding, tilted bedding, mud clasts
 throughout.

Integrated Ocean Drilling Program Visual Core Description

NO. 39
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C00213
 CORE: 5
 SECTION: 4
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

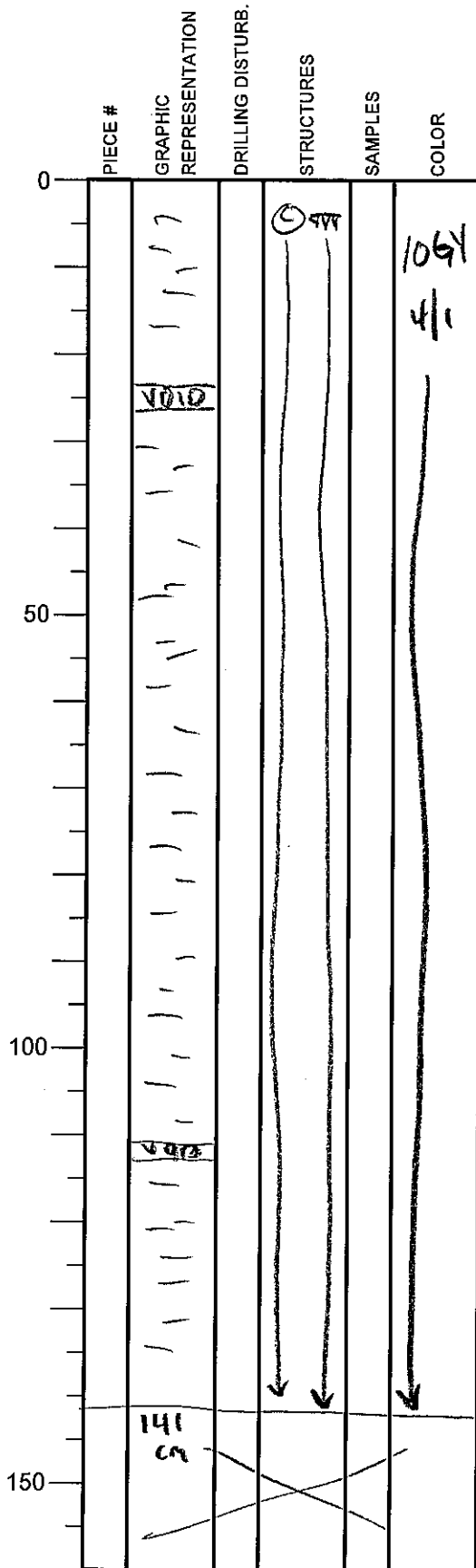
MTD

Chaotic, mudclasts, tilted bedding throughout

Integrated Ocean Drilling Program Visual Core Description

NO. 40
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: SH
 SECTION: 5
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY
 MTD
 chaotic bedding, mud clasts throughout

Integrated Ocean Drilling Program Visual Core Description

NO. 41
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 5H
 SECTION: 6
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				(C)		1091 4/1
50						
100						
150		140 cm				

SECTION DESCRIPTION

OBSERVER: D. SAWYER

SILTY CLAY

clastic bedding, fewer mud clasts than above sections.

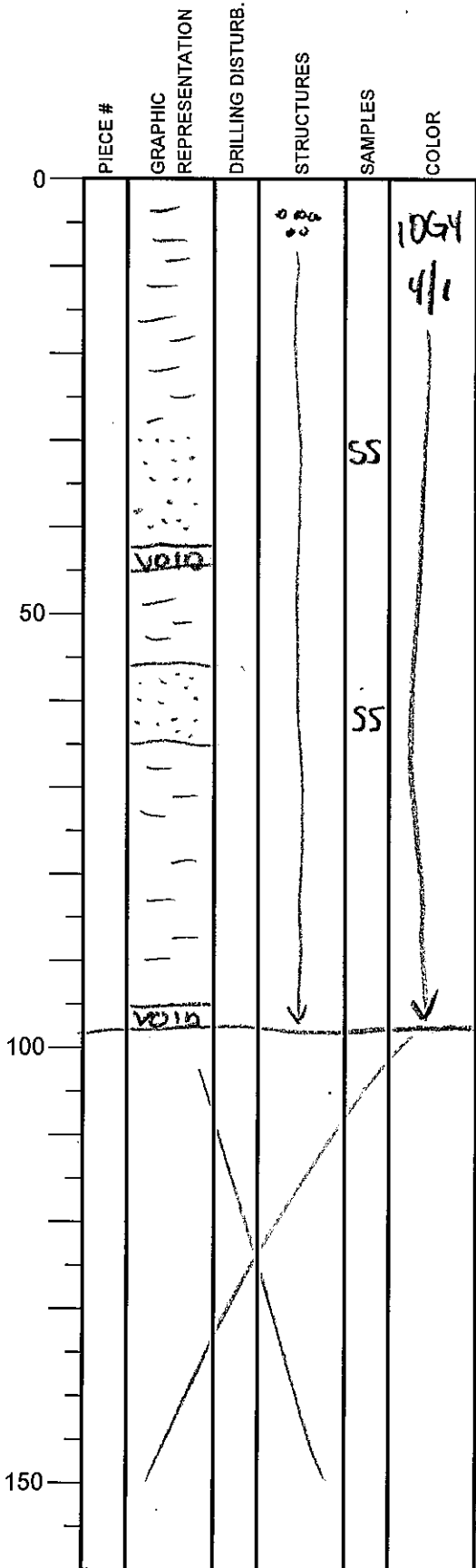
50cm: coarser lens (ash or silt/sand?)

107-112cm fine ash layer

Integrated Ocean Drilling Program Visual Core Description

NO. 42
 DATE: 26/4/20 13
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 5H
 SECTION: 7
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

mottled throughout,
much less pervasive mud clasts and deformation

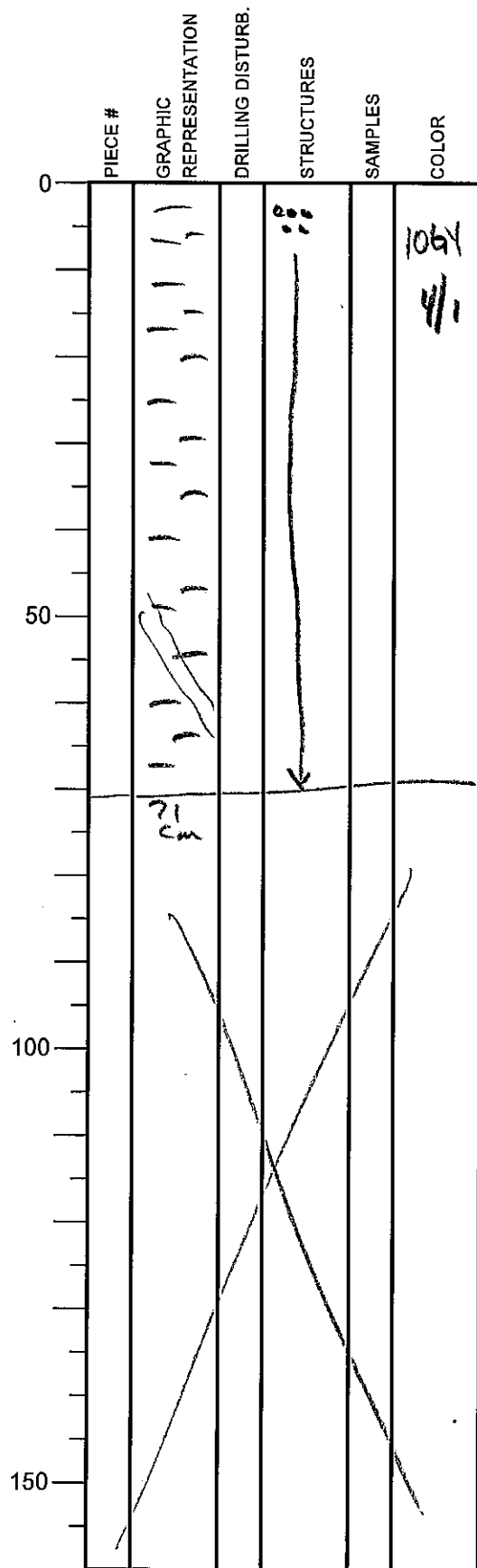
30-38cm: coarser layer (ash?)
36cm: smear slide

56-65cm: dark coarse layer. (ash?)
63cm: smear slide
Sand

Integrated Ocean Drilling Program Visual Core Description

NO. 43
DATE: 24 / 2013
EXP.: 338
SITE/HOLE: C00218
CORE: 5H
SECTION: 8
TOP DEPTH (m CSF):

OBSERVER: D. SAWYER

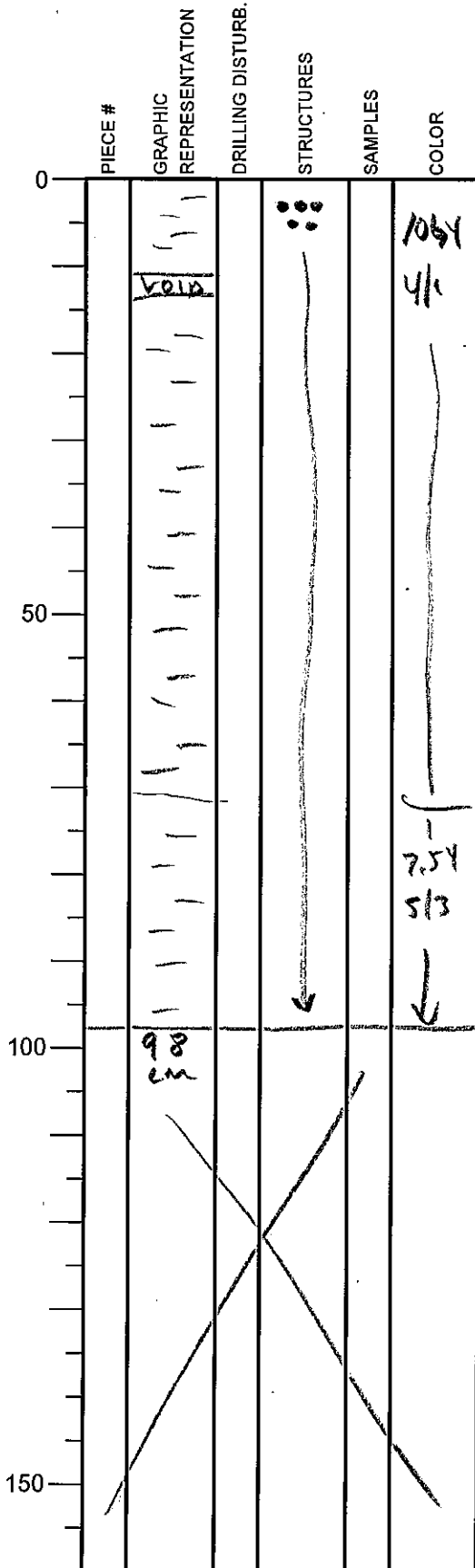


SECTION DESCRIPTION

SILTY CLAY
mottled throughout
some tilted bedding

Integrated Ocean Drilling Program Visual Core Description

NO. 44
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C00218
 CORE: 5H
 SECTION: 01
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY
 mottled throughout.
 homogeneous bedding.

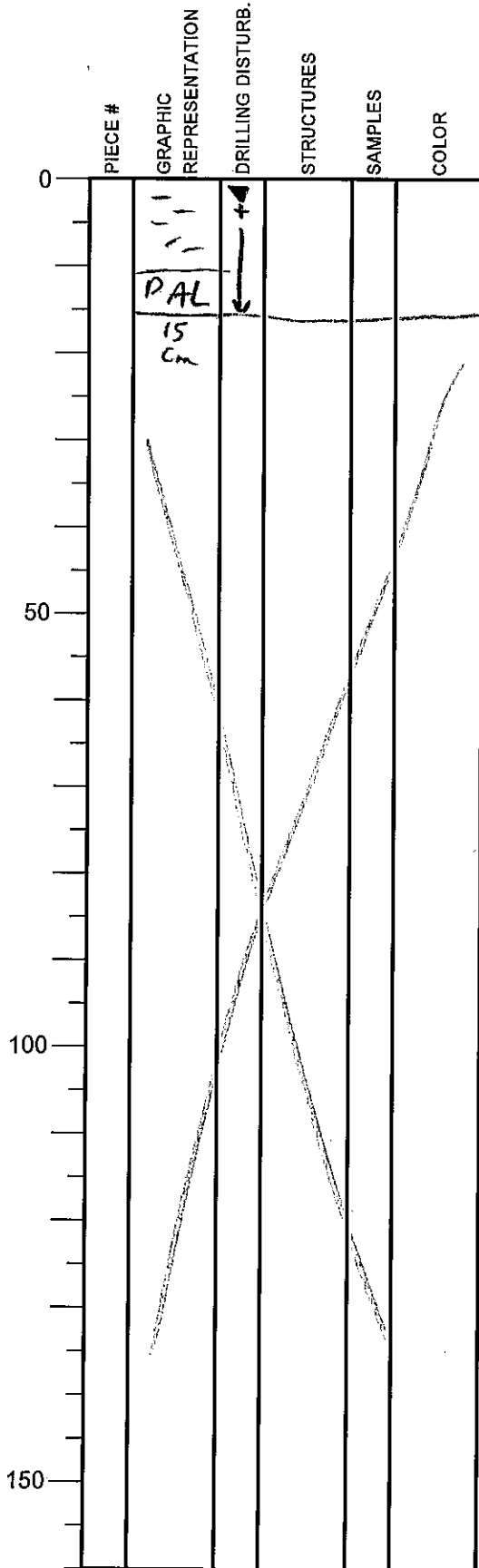
OBSERVER: D. SAWYER

70cm color change: blue gray above (106Y 4/1) to brownish green (7.5Y 5/3) below.

Integrated Ocean Drilling Program

Visual Core Description

NO. **45**
 DATE: **26/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **5H**
 SECTION: **CC**
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

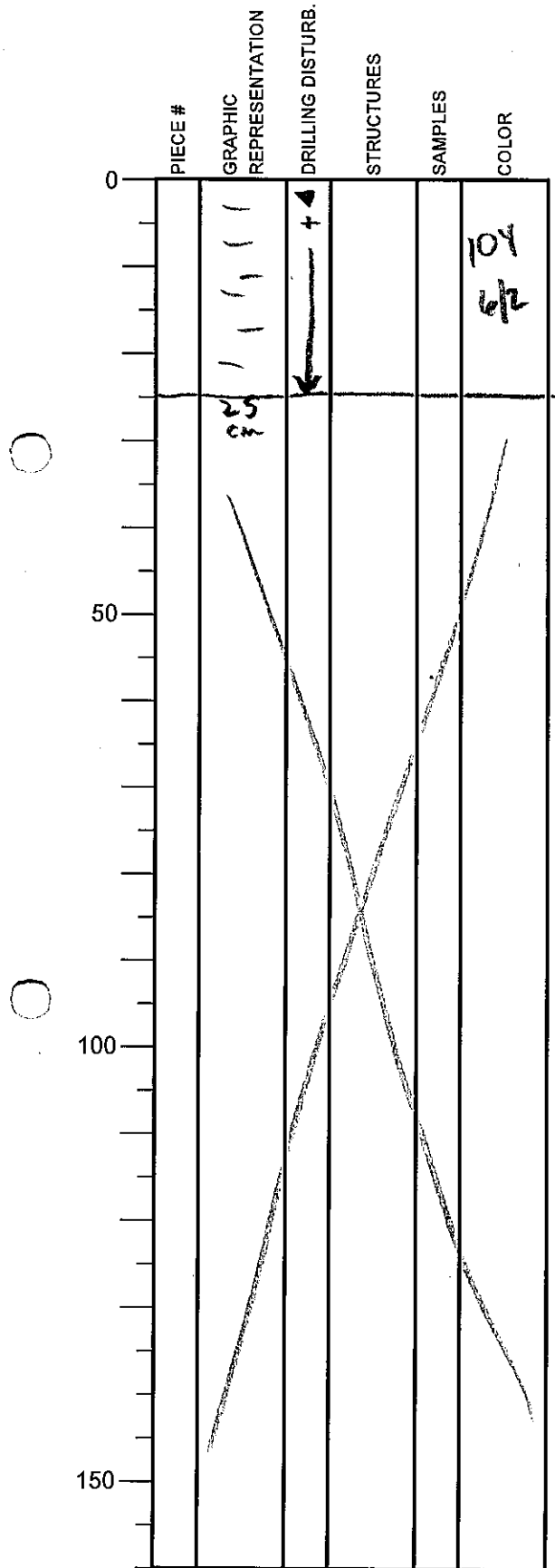
SILTY CLAY
 highly disturbed

OBSERVER: **D. SAWYER**

Integrated Ocean Drilling Program Visual Core Description

NO. **46**
 DATE: **26/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021 B**
 CORE: **6H**
 SECTION: **1**
 TOP DEPTH (m CSF):

OBSERVER: **D. SAWYER**



SECTION DESCRIPTION

SILTY CLAY
Replaced liner

Integrated Ocean Drilling Program Visual Core Description

NO. **47**
 DATE: **26/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **6H**
 SECTION: **2**
 TOP DEPTH (m CSF):

OBSERVER: **D. SAWYER**

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				•••••		106Y 5/1
50						
100						
150						

SECTION DESCRIPTION

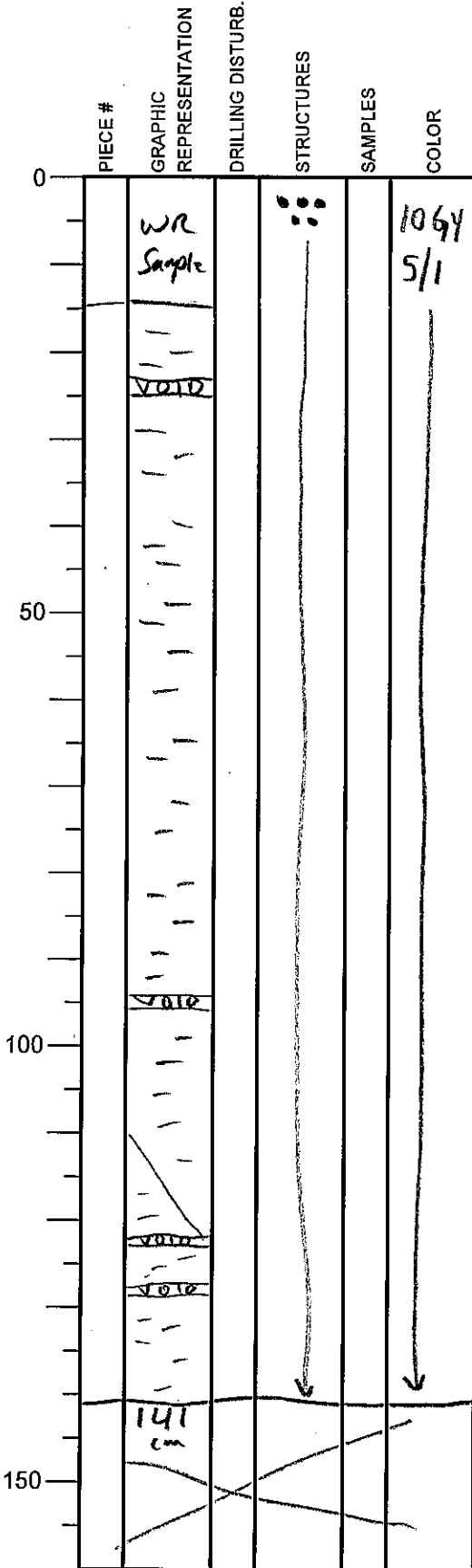
SILTY CLAY
 homogenous, mottled blue-green.

Integrated Ocean Drilling Program

Visual Core Description

NO. **48**
 DATE: **26/4 /2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **6H**
 SECTION: **4**
 TOP DEPTH (m CSF):

OBSERVER: **D. SAWYER**



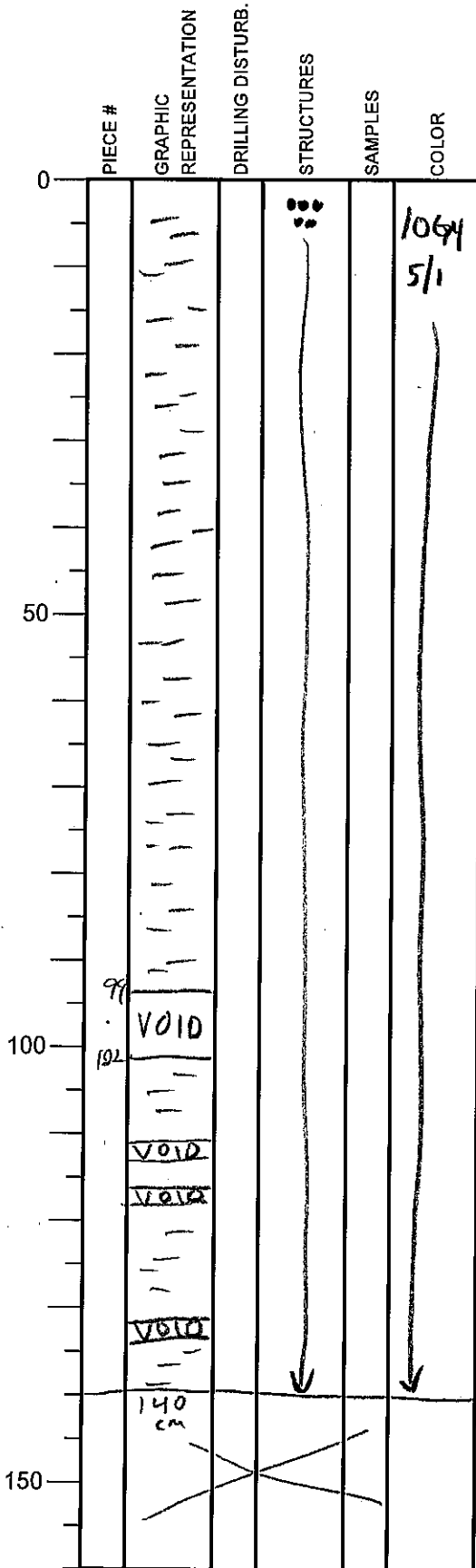
SECTION DESCRIPTION

SILTY CLAY
 mottled throughout
 homogenous

Integrated Ocean Drilling Program Visual Core Description

NO. 49
 DATE: 26/4/2013
 EXP.: 338
 SITE/HOLE: C00218
 CORE: 6H
 SECTION: #5
 TOP DEPTH (m GSF):

OBSERVER: D. SAWYER



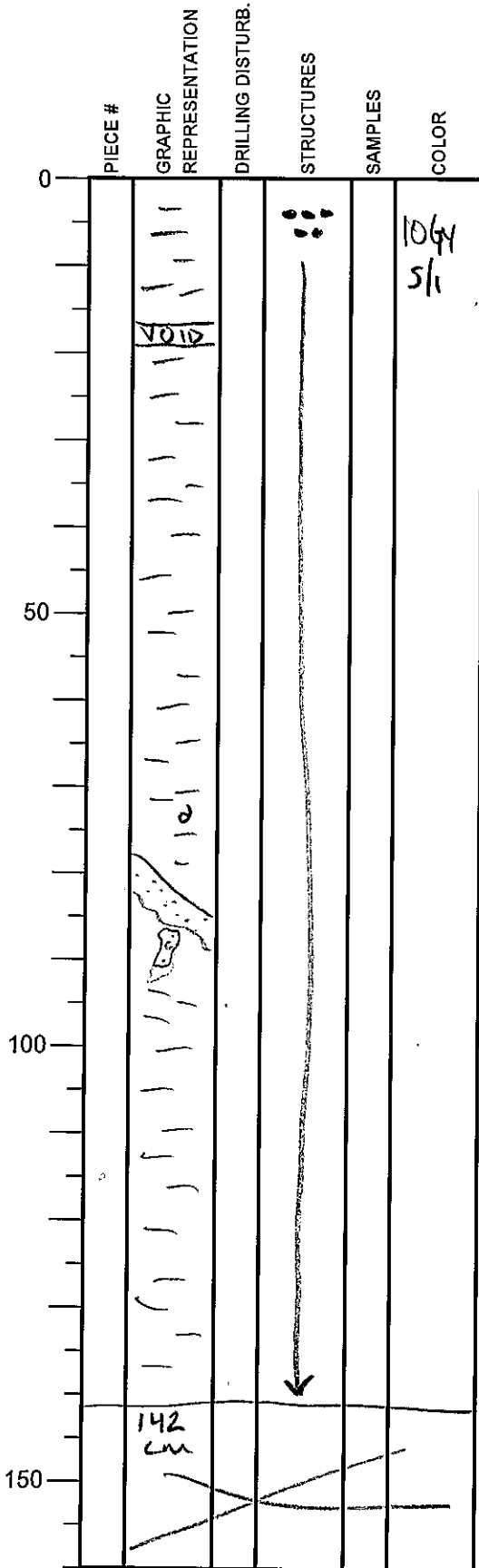
SECTION DESCRIPTION

SILTY CLAY
 mottled throughout
 faintly laminated(?)

Integrated Ocean Drilling Program Visual Core Description

NO. 50
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 6H
 SECTION: 6
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

mottled throughout
 faintly laminated to homogenous

74cm: Shell fragment

78-85: coarser layer ash or sand?
 87cm ~~87cm~~ Filled burrow w/ coarse material

Integrated Ocean Drilling Program

Visual Core Description

NO. **51**
 DATE: **26/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **6H**
 SECTION: **7**
 TOP DEPTH (m CSF):

OBSERVER: **D. SAWYER**

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				••••		1064 5/1
50					SS	
100						
150						
		VOID				
		140 cm				

SECTION DESCRIPTION

SILTY CLAY

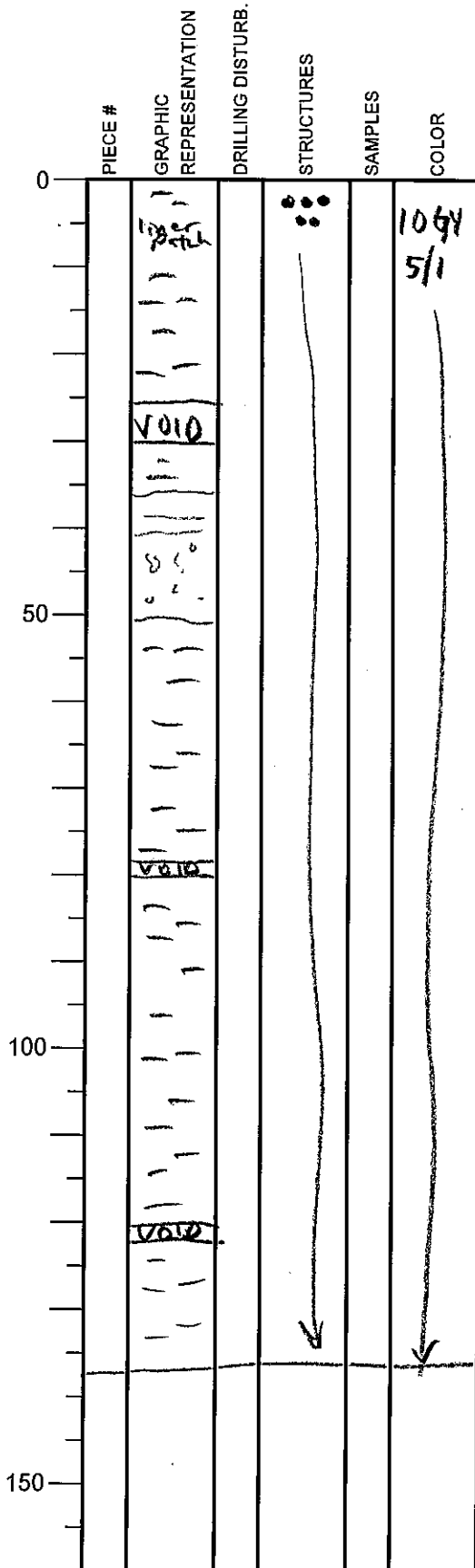
Mottled throughout ↩

40cm: smear slide see data

Integrated Ocean Drilling Program Visual Core Description

NO. **52**
 DATE: **26/4/2013**
 EXP: **338**
 SITE/HOLE: **C0021B**
 CORE: **6H**
 SECTION: **8**
 TOP DEPTH (m CSF):

OBSERVER: **D. SAWYER**



SECTION DESCRIPTION

SILTY CLAY
 mottled throughout

37-51cm : dispersed coarse lenses (ash or sand?)

Integrated Ocean Drilling Program Visual Core Description

NO. **53**
 DATE: **26/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **6H**
 SECTION: **9**
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				•••••		SV S/2
50		 VOID				
100		 VOID				
150		 VOID				
152		 152 cm				

SECTION DESCRIPTION

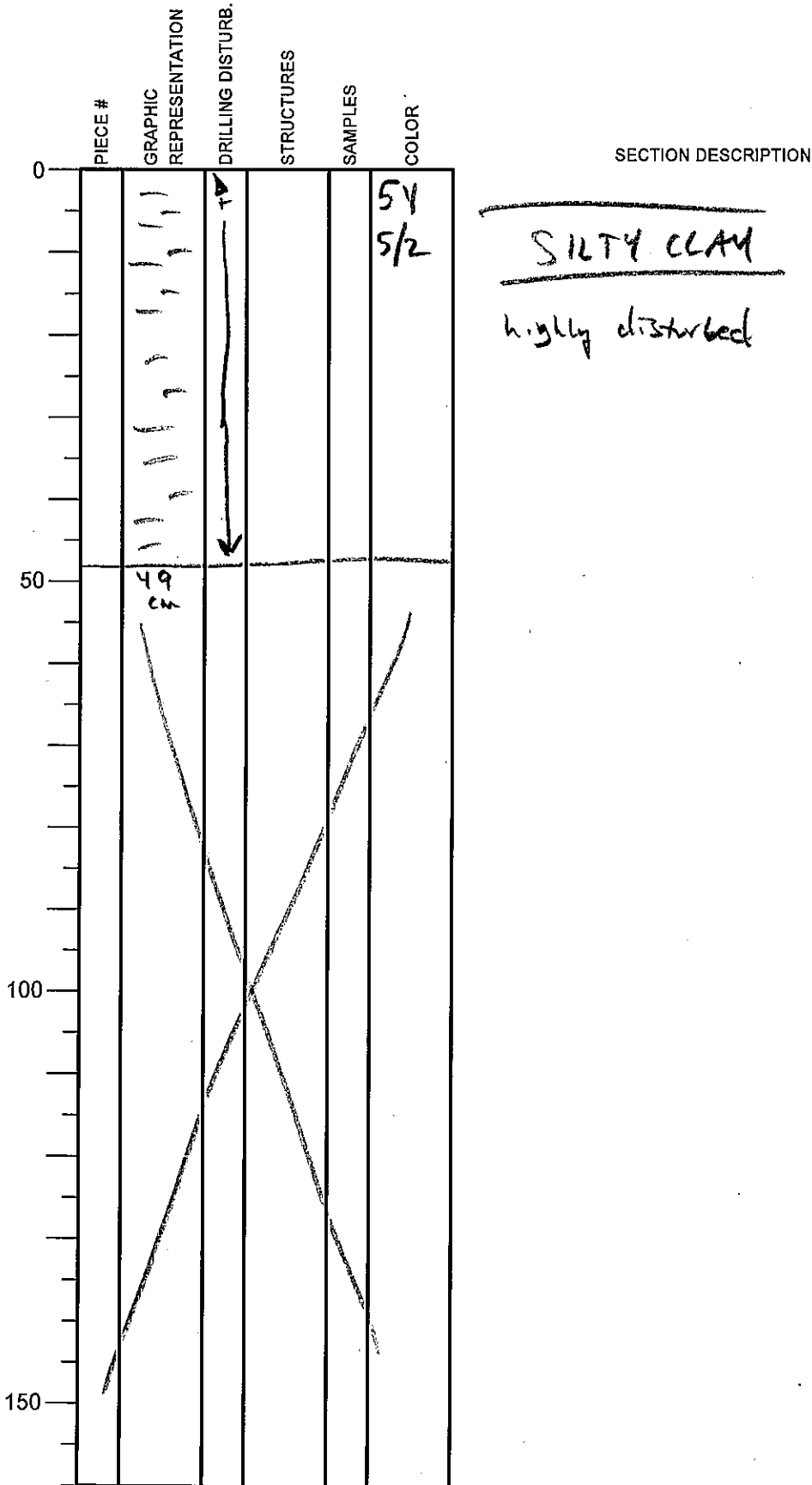
SILTY CLAY
 mottled throughout

OBSERVER: **D. SAWYER**

Integrated Ocean Drilling Program Visual Core Description

NO. **54**
 DATE: **8/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021 B**
 CORE: **6H**
 SECTION: **CC**
 TOP DEPTH (m CSF):

OBSERVER: **D. SAWYER**

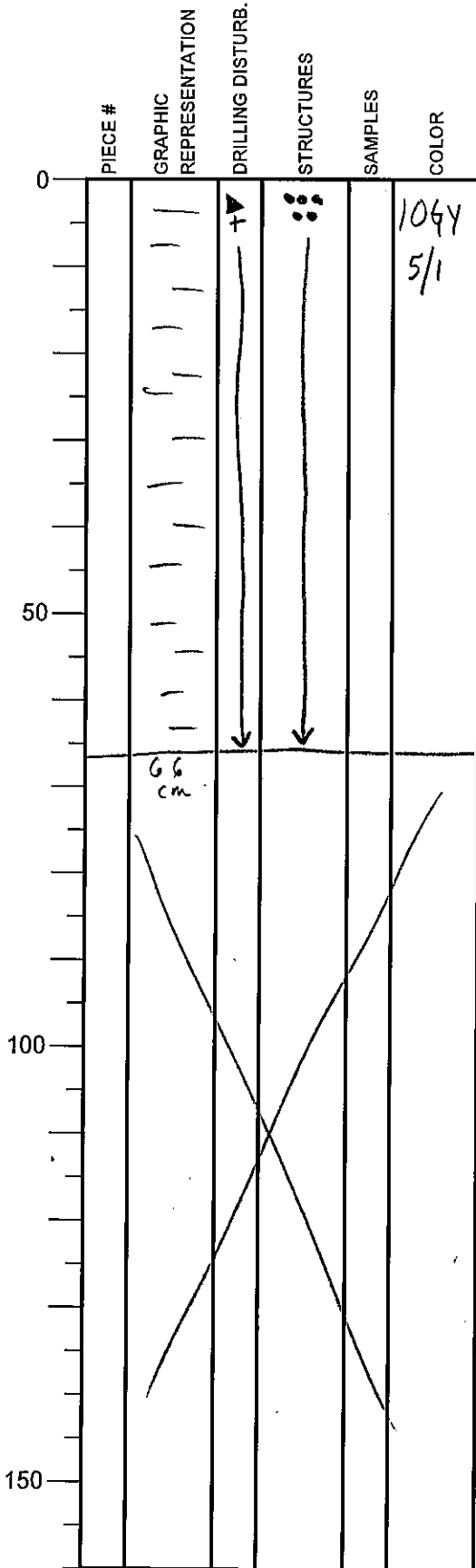


Integrated Ocean Drilling Program

Visual Core Description

NO. **55**
 DATE **27/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **7H**
 SECTION: **01**
 TOP DEPTH (m GSF):

OBSERVER: **D. SAWYER**

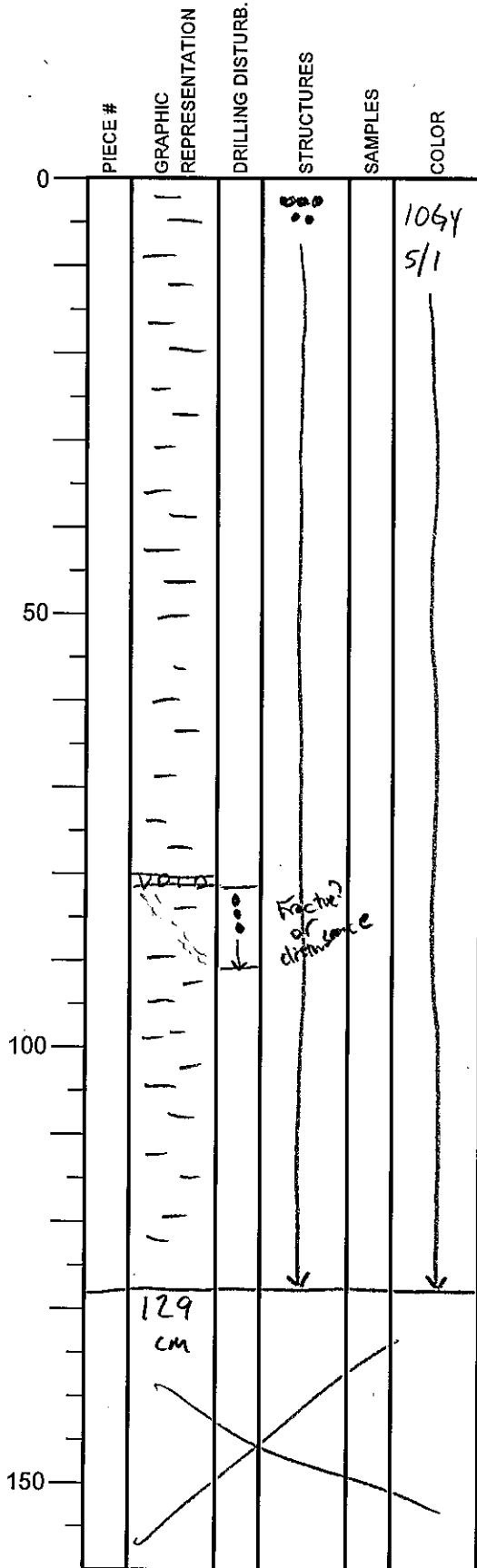


SECTION DESCRIPTION

SILTY CLAY
 replaced liner, highly disturbed

Integrated Ocean Drilling Program Visual Core Description

NO. 56
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 7
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY
 mottled throughout

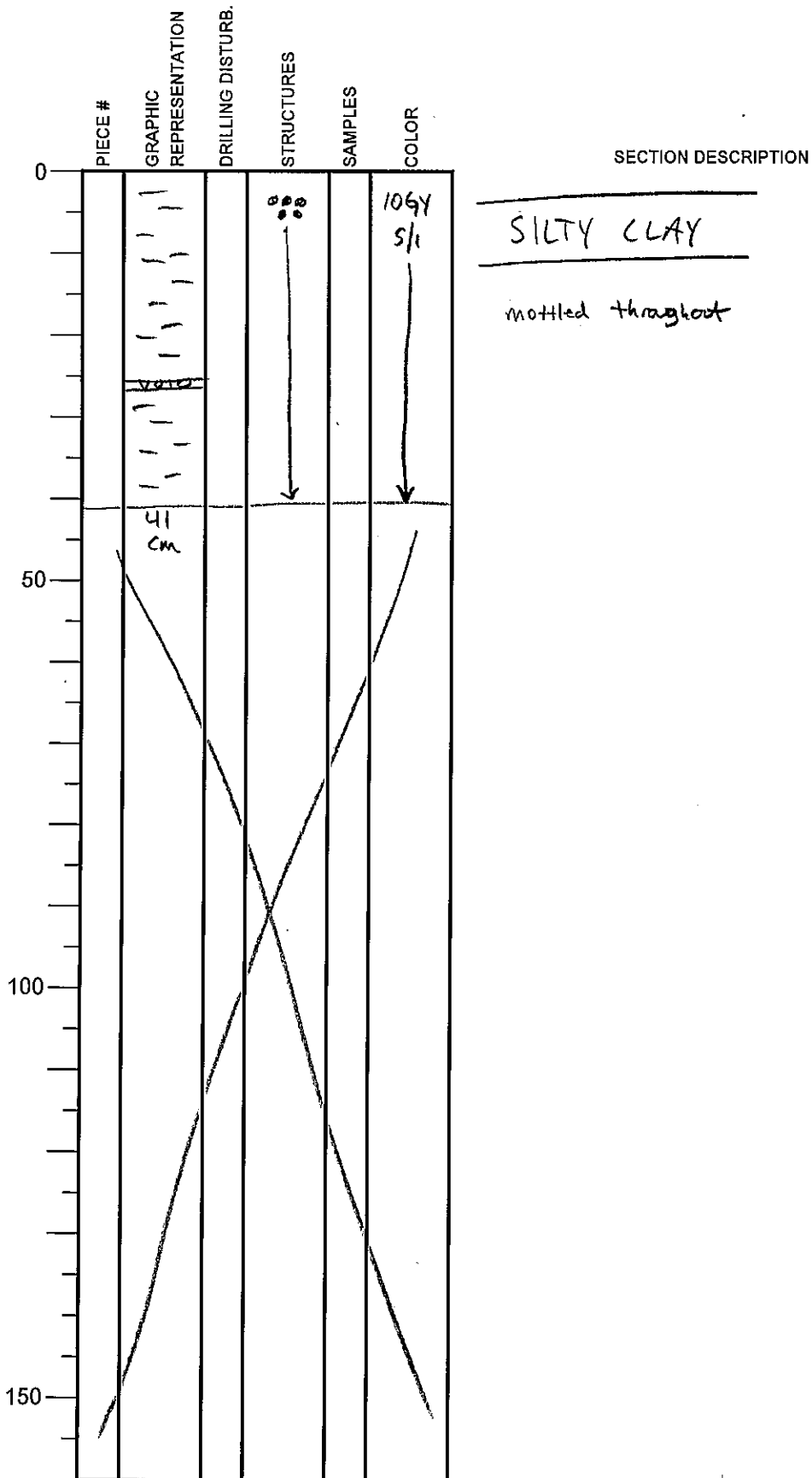
OBSERVER: D. SAWYER

80-90 cm: normal fault. drilling/handling induced or natural?

Integrated Ocean Drilling Program Visual Core Description

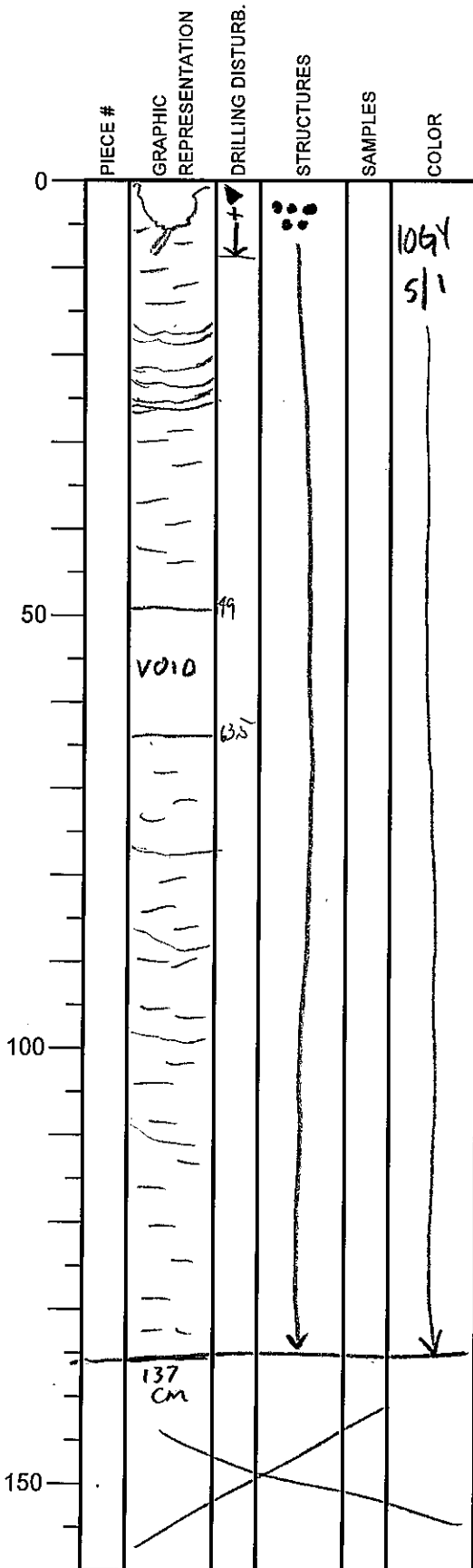
NO. 57
DATE: 2/4/2013
EXP.: 338
SITE/HOLE: C0021 B
CORE: 7
SECTION: 3
TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



Integrated Ocean Drilling Program Visual Core Description

No. 58
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 7
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY

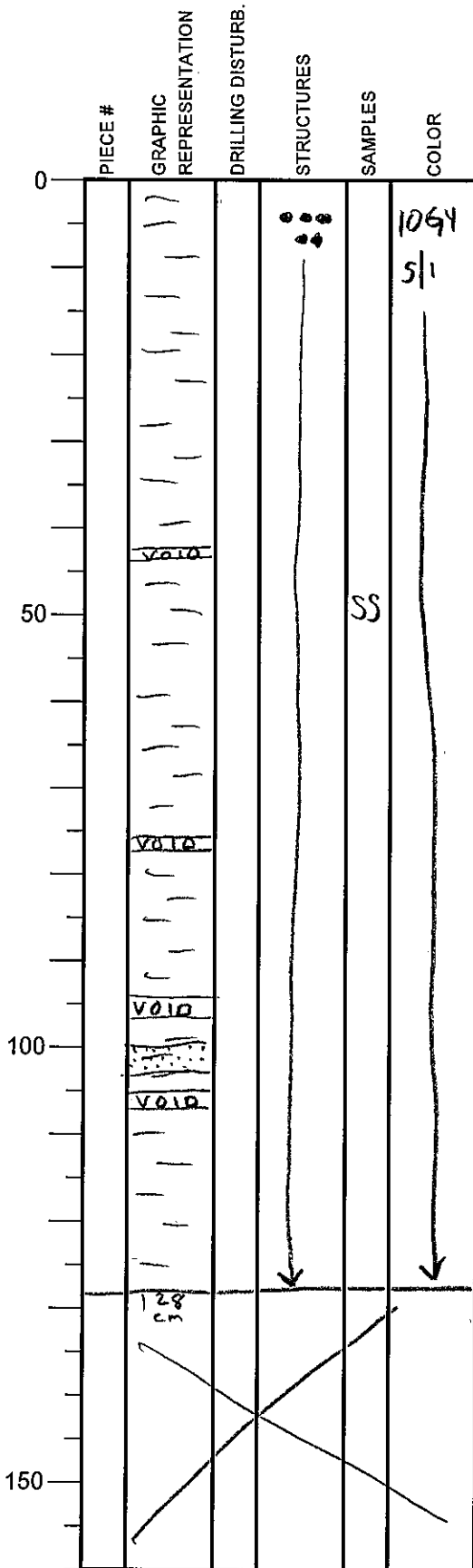
Mottled throughout

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 59
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 7
 SECTION: 6
 TOP DEPTH (m GSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY
 mottled throughout

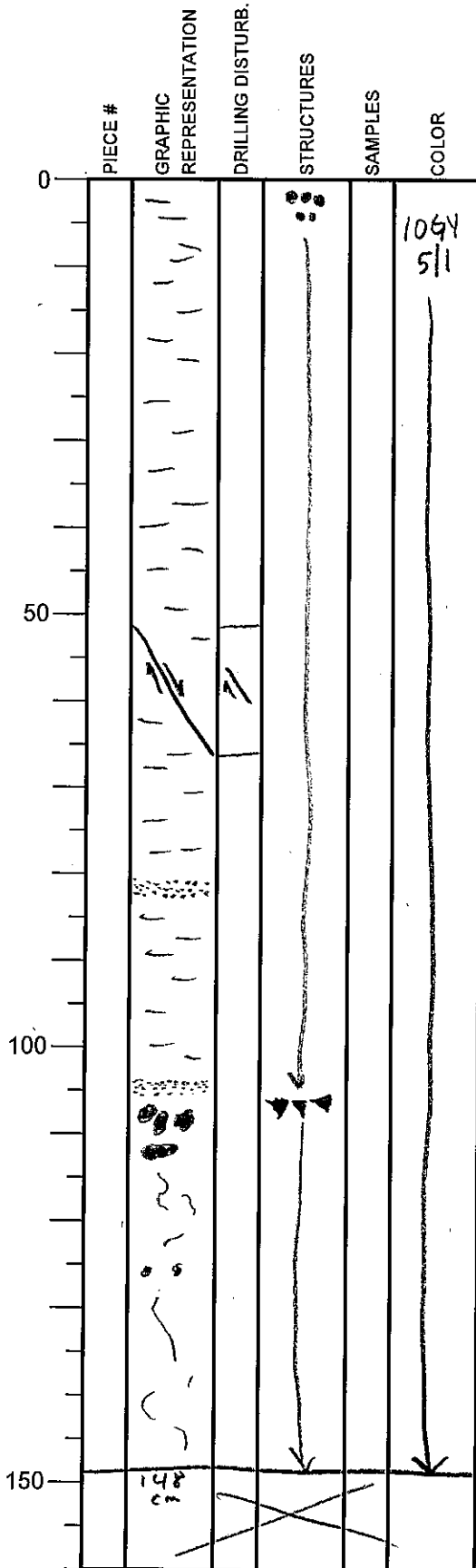
50cm smear slide, see data sheet

100-103: dispersed coarse layer. sand/silt or ash?

Integrated Ocean Drilling Program Visual Core Description

NO. 60
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 7
 SECTION: 7
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

Mottled 0-106cm.

MTD 106 → 148cm.

52-65cm: Normal fault. Observed visually and in CT.

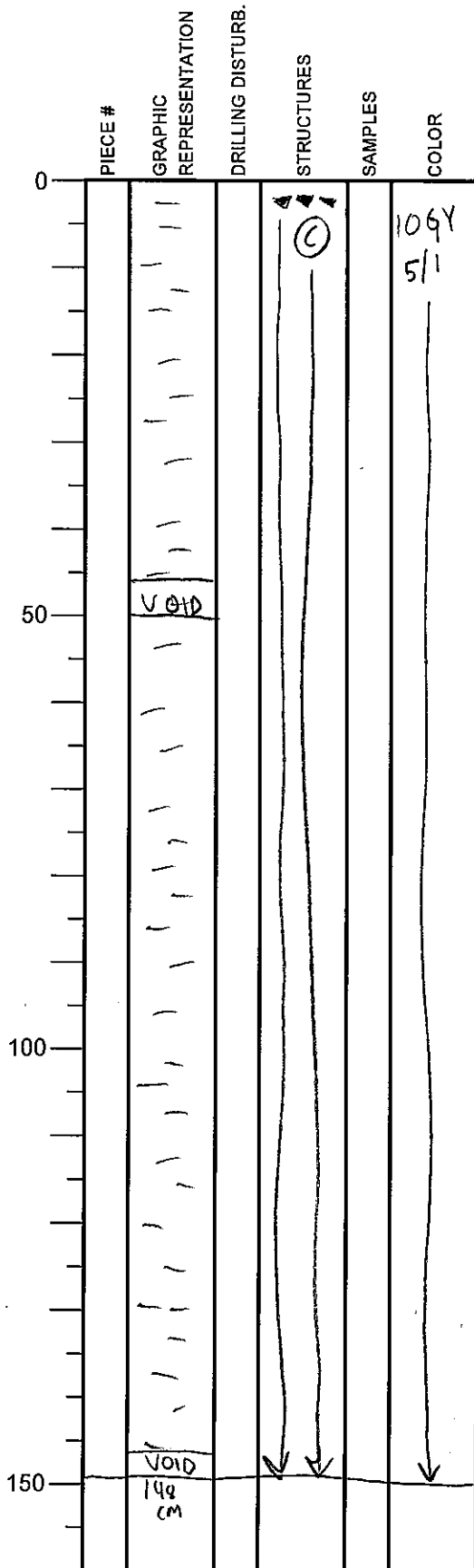
80-83cm: coarse layer sand/silt or ash?

104-106cm: coarse layer. sand/silt or ash?

106cm: top of MTD.
 mud clasts, ~~contorted~~ bedding
 chaotic

Integrated Ocean Drilling Program Visual Core Description

NO. 61
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 7
 SECTION: 8
 TOP DEPTH (m CSF):



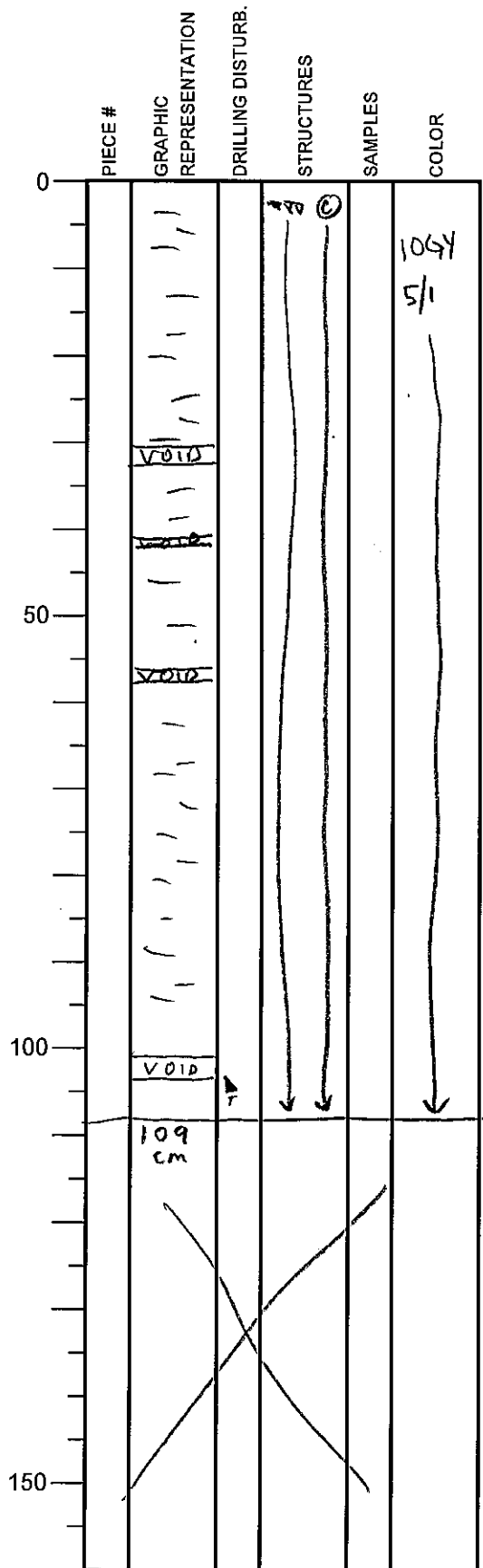
SECTION DESCRIPTION

OBSERVER: D-SAWYER

SILTY CLAY
 MTD.
 Chaotic bedding throughout.
 Mud clasts throughout.

Integrated Ocean Drilling Program Visual Core Description

NO. 62
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 7
 SECTION: 9
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY
 MTD.
 mud clasts throughout.
 chaotic bedding throughout.

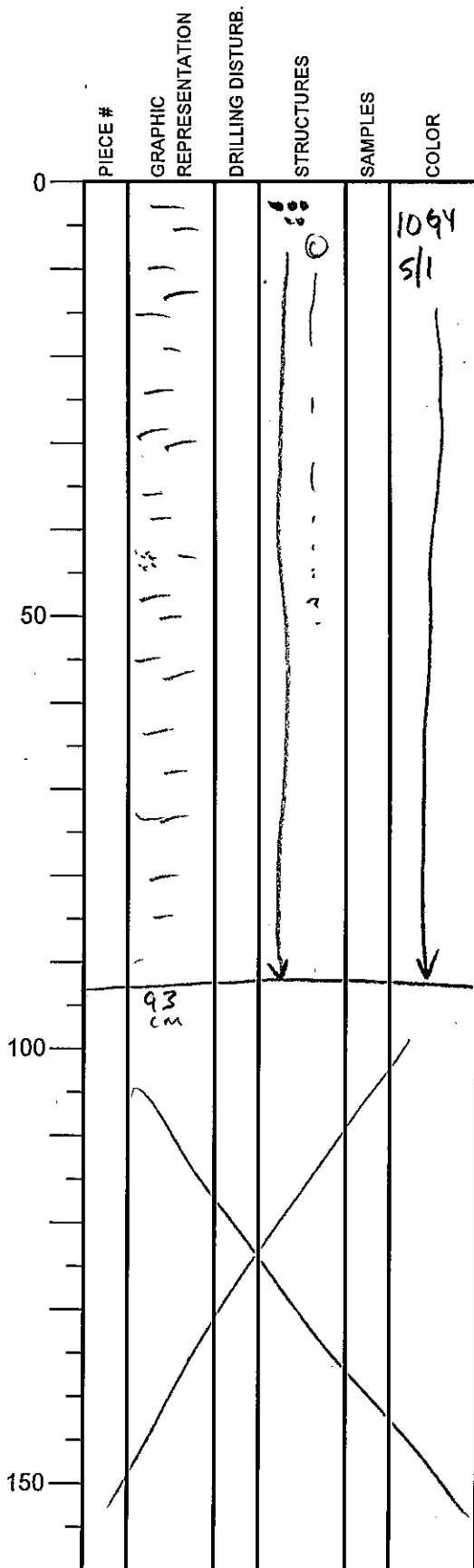
OBSERVER: D. SAWYER

Integrated Ocean Drilling Program

Visual Core Description

NO. 63
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 7
 SECTION: 10
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

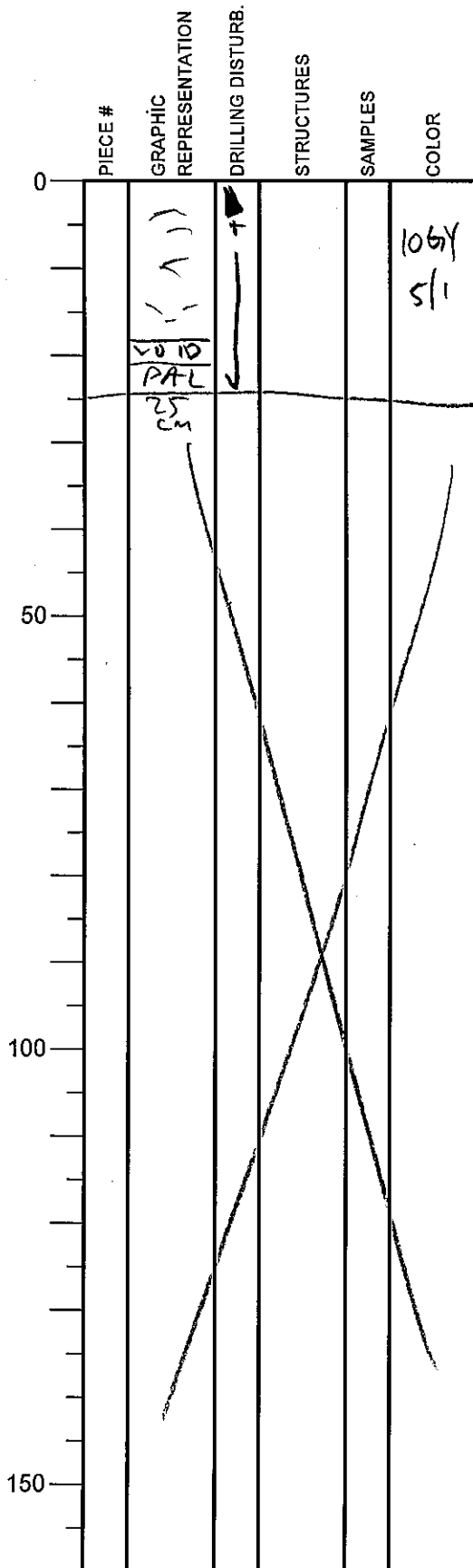
MTD, but deformation much less and potentially base of MTD in this section. Mottled.

42-43cm dispersed coarser material

61-63cm : CT scan indicated slightly higher CT values (denser) relative to above and below this bed. Nothing obvious in visual.

Integrated Ocean Drilling Program Visual Core Description

NO. 64
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 7
 SECTION: CC
 TOP DEPTH (m CSF):



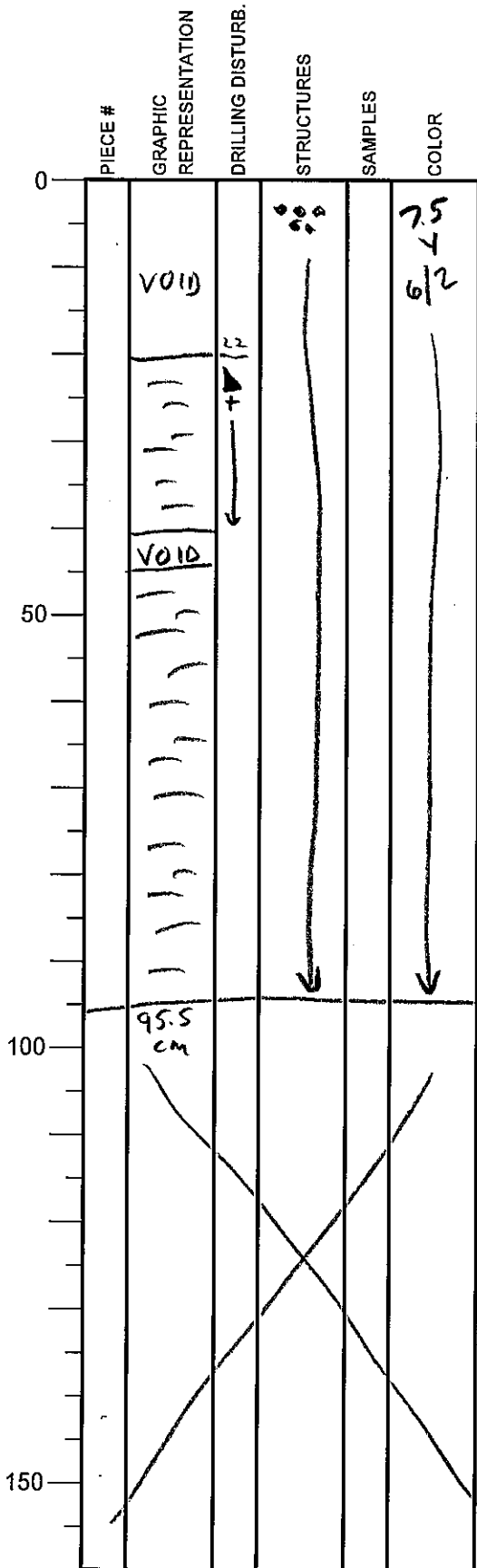
SECTION DESCRIPTION

SILTY CLAY
 highly disturbed.

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 65
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 8
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

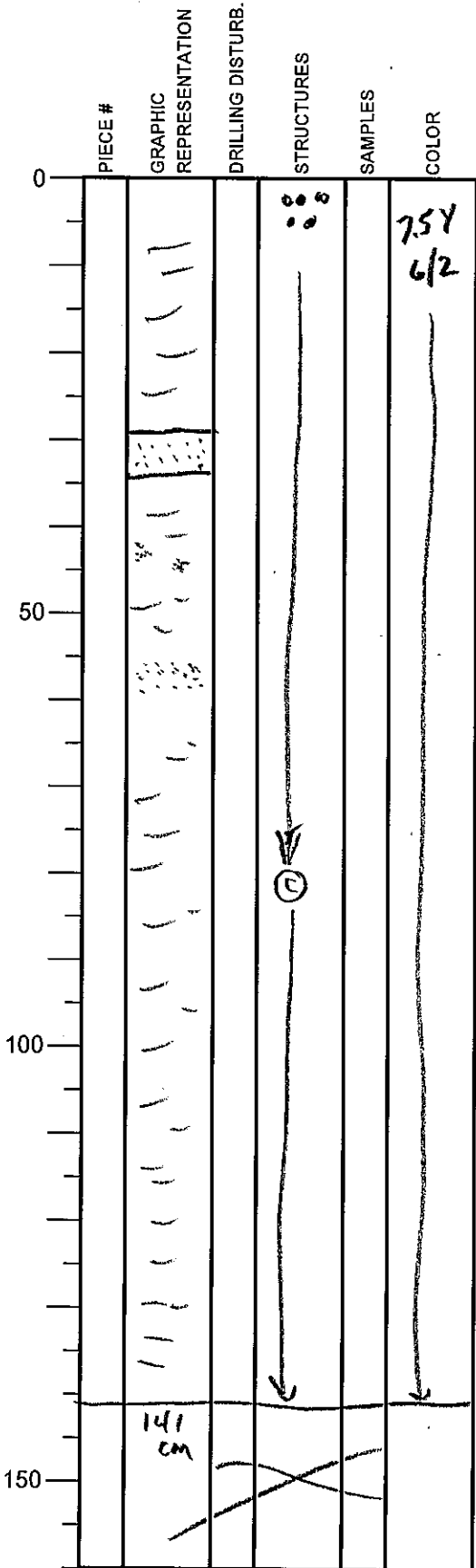
SILTY CLAY
 mottled throughout

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 66
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 8
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

29-34 cm: coarse layer. sand/silt? ^(probably) ash?

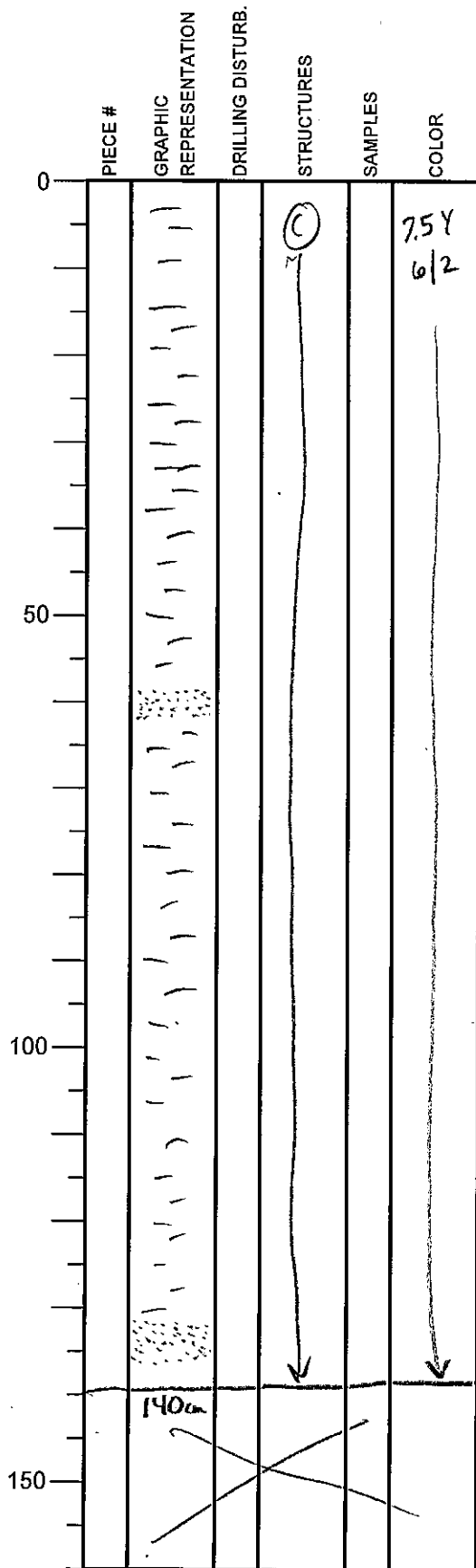
42, 45 cm: isolated coarse patches.

57-60 cm: coarse layer.

81 cm: chaotic bedding below.

Integrated Ocean Drilling Program Visual Core Description

NO. 67
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 8
 SECTION: 4
 TOP DEPTH (m GSF):



SECTION DESCRIPTION

SILTY CLAY

MTD

chaotic bedding throughout

59-61cm: coarse layer

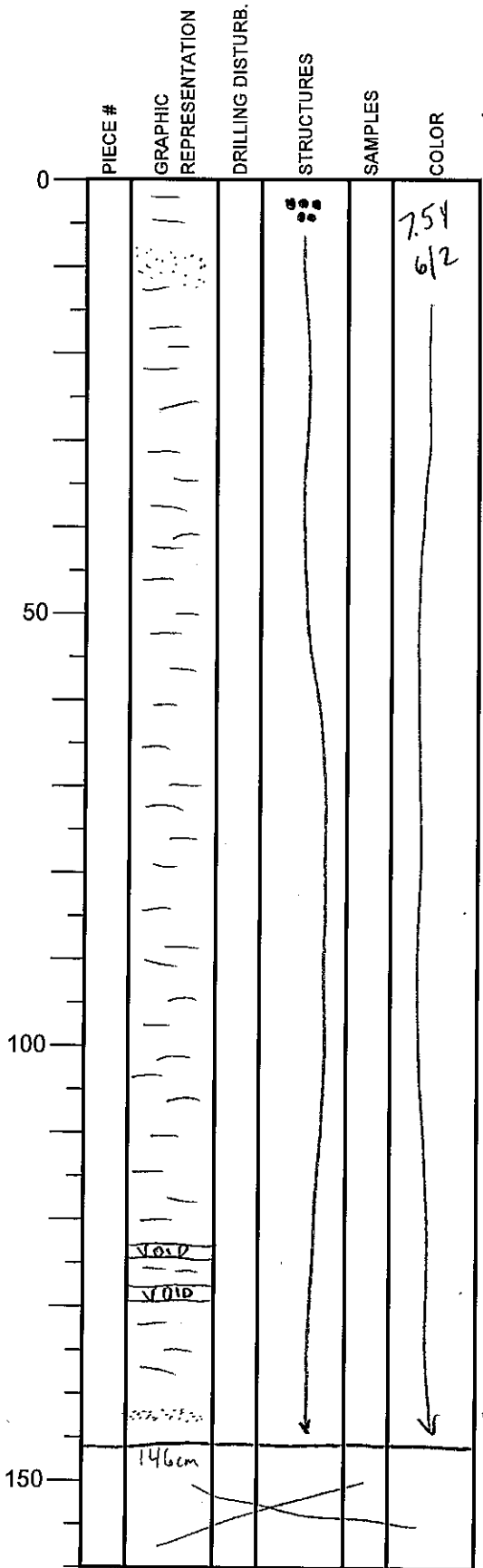
133-136cm: coarse layer

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 68
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 8
 SECTION: 5
 TOP DEPTH (m GSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

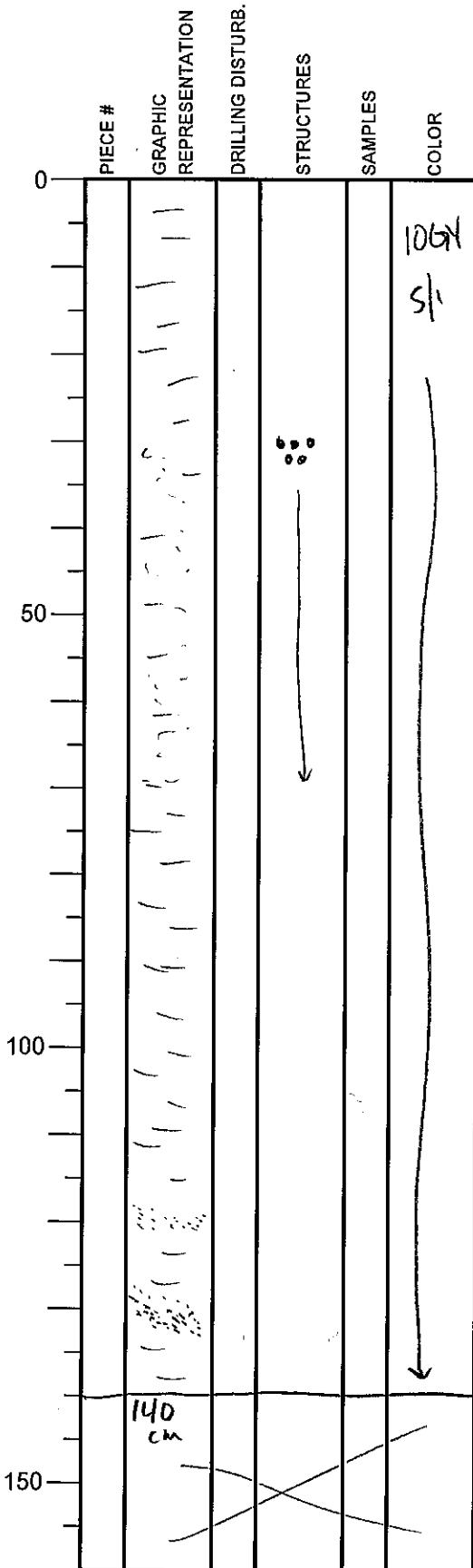
8-12 cm: coarse layer

homogenous, ~~homogenous~~ to mottled throughout
no obvious MTD deformation

142-144 cm: coarse layer

Integrated Ocean Drilling Program Visual Core Description

No. **69**
 DATE: **2/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **8**
 SECTION: **6**
 TOP DEPTH (m GSF):



SECTION DESCRIPTION

SILTY CLAY

OBSERVER: **D. SAWYER**

30-70cm: mottled/bioturbated.

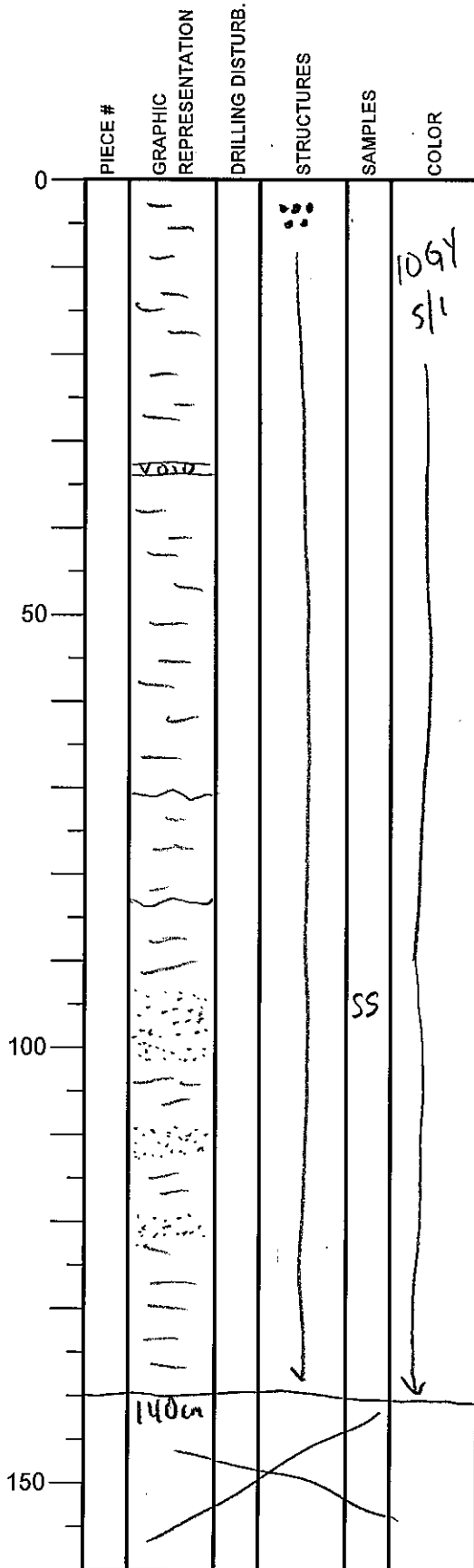
119-121cm: coarse layer

128-134cm: filled coarse layer.
130cm: smear slide.

Integrated Ocean Drilling Program Visual Core Description

No. 70
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 8
 SECTION: 7
 TOP DEPTH (m GSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY
mottled throughout.

71-83: ~~lighter~~ slightly lighter ~~and~~ silty clay. Potentially mud clast

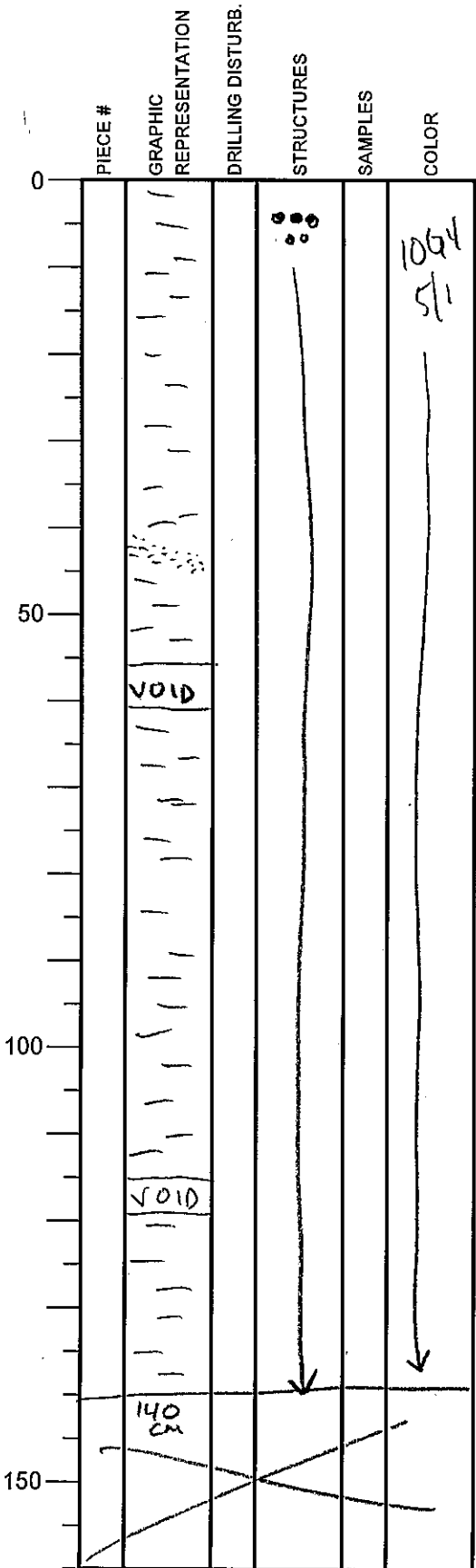
96-101cm: coarse layer 100cm: see smear slide

109-112cm: coarse layer

121-123cm: coarse layer

Integrated Ocean Drilling Program Visual Core Description

No. 71
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 8
 SECTION: 8
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY
 mottled throughout

43-46: coarse layer.

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. **72**
 DATE: **27/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021 B**
 CORE: **8**
 SECTION: **CC**
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		+ 				1064 S/1
33		33cm				
50						
100						
150						

SECTION DESCRIPTION

OBSERVER: **D. SAWYER**

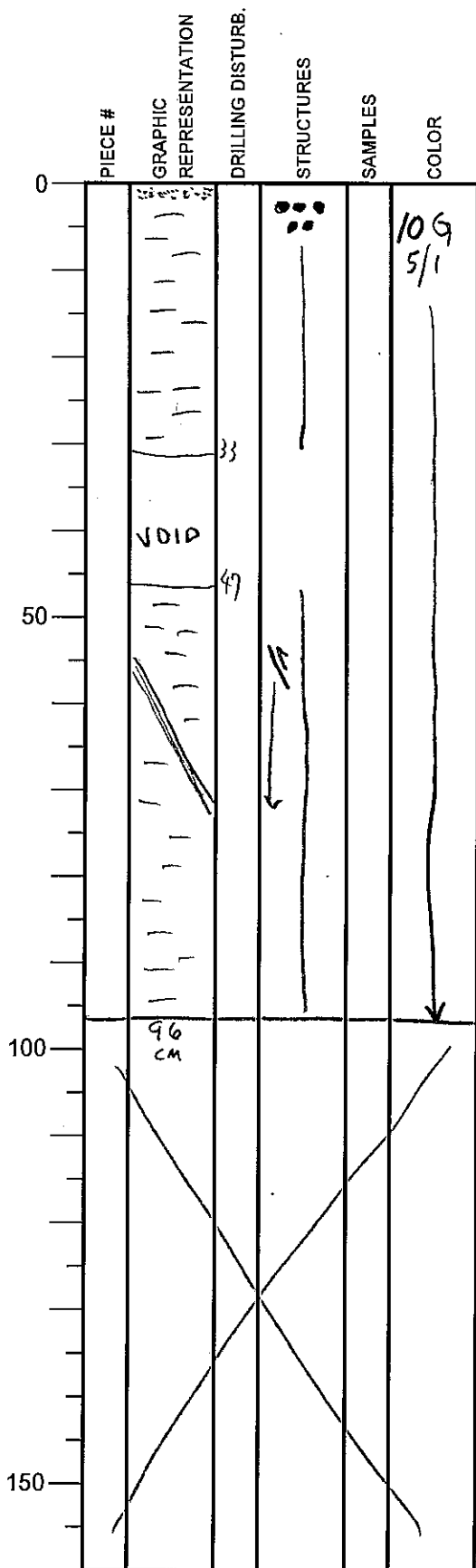
SILTY CLAY

4-10cm coarse layer on right side.

Integrated Ocean Drilling Program Visual Core Description

No. 73
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 9
 SECTION: 1
 TOP DEPTH (m GSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

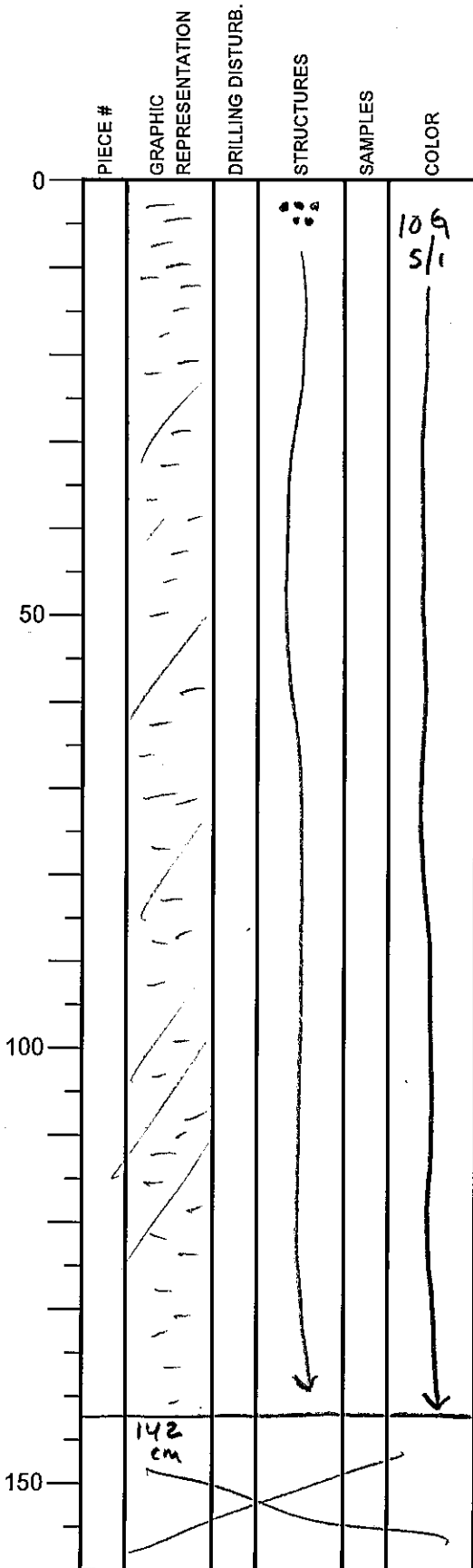
SILTY CLAY
 0-1cm: sand layer.

mottled throughout

{ 57-70 cm: ~3cm wide shear zone -- very pronounced in CT image. observable in core by thin, ~~inward~~ dipping surface, but subtle.

Integrated Ocean Drilling Program Visual Core Description

NO. 74
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 9
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY

steeply dipping, mottled.

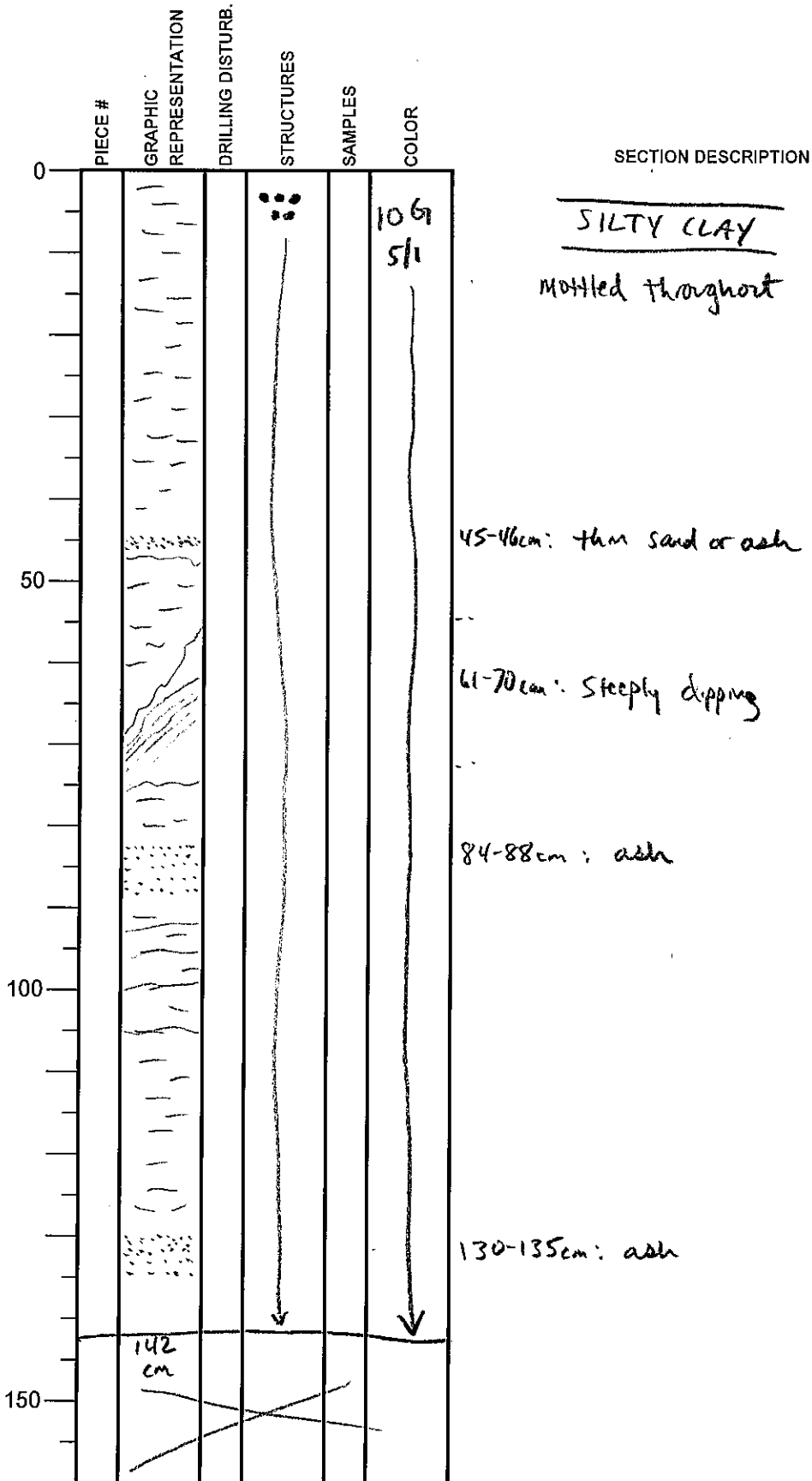
↳ steep dips also observed in CT scans.

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 75
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 9
 SECTION: 4
 TOP DEPTH (m CSF):

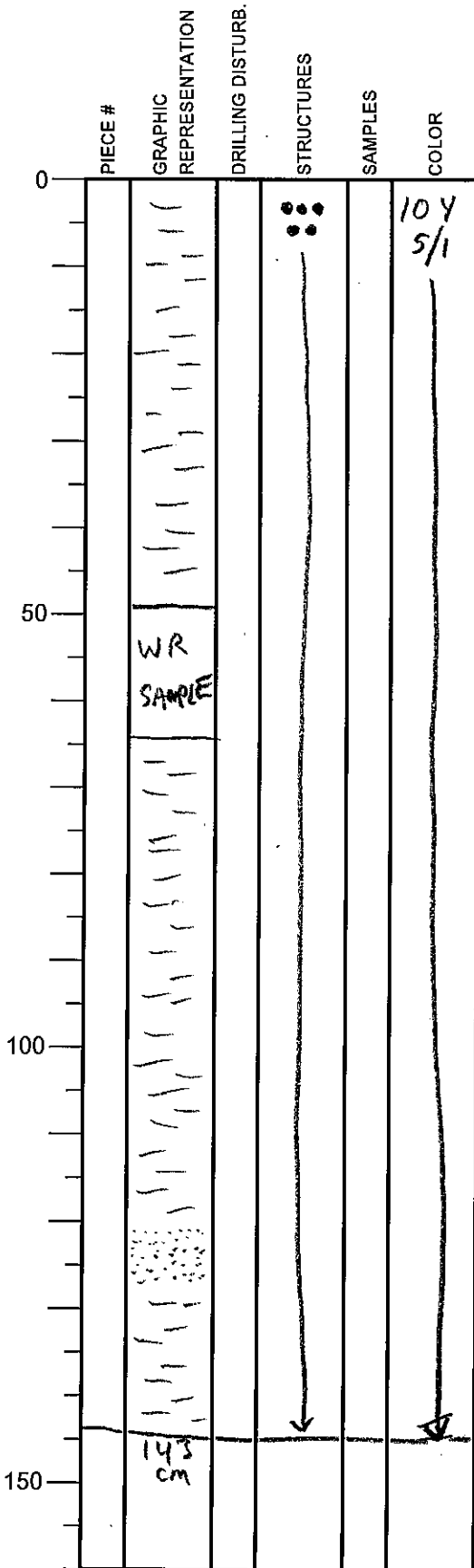
OBSERVER: D. SAWYER



Integrated Ocean Drilling Program Visual Core Description

No. 76
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 9
 SECTION: 5
 TOP DEPTH (m GSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

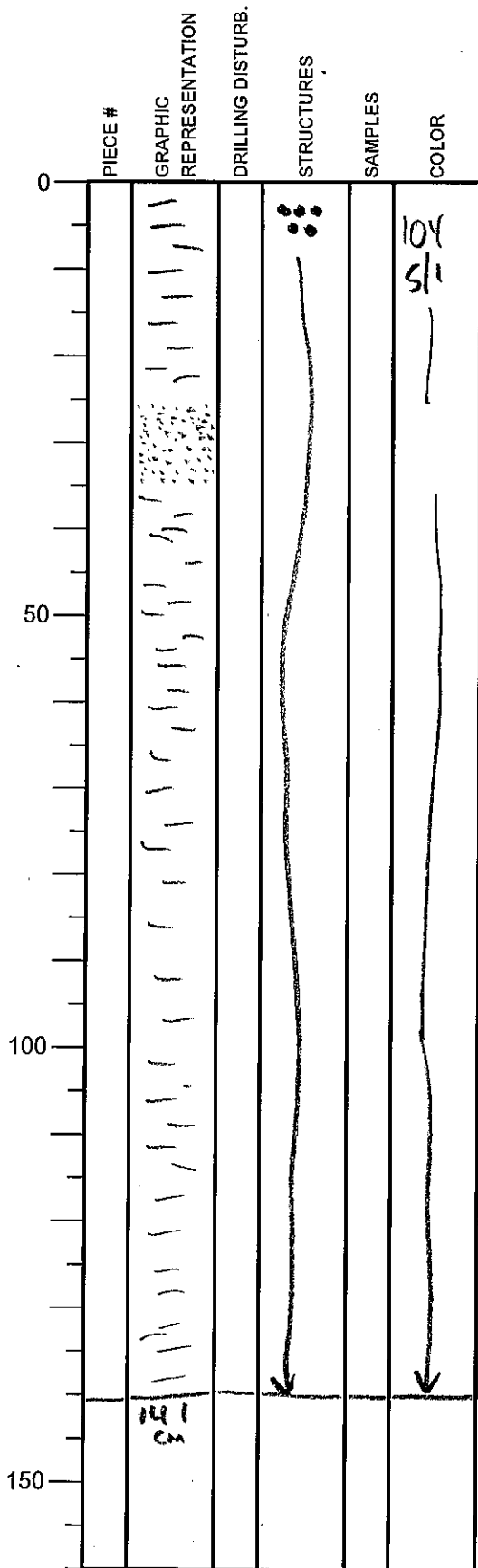
mottled throughout.

Integrated Ocean Drilling Program

Visual Core Description

NO. 77
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 9
 SECTION: 6
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

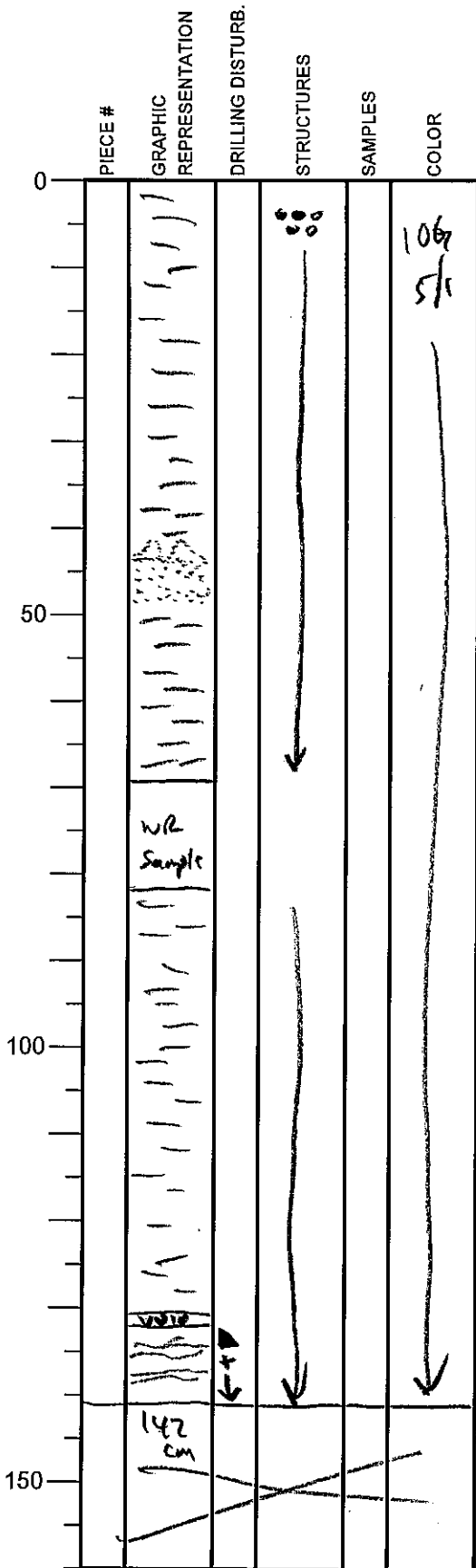
SILTY CLAY
 mottled throughout

25-34cm : ash, white/gray (N 8/0)

Integrated Ocean Drilling Program Visual Core Description

NO. 78
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C00218
 CORE: 9
 SECTION: 7
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

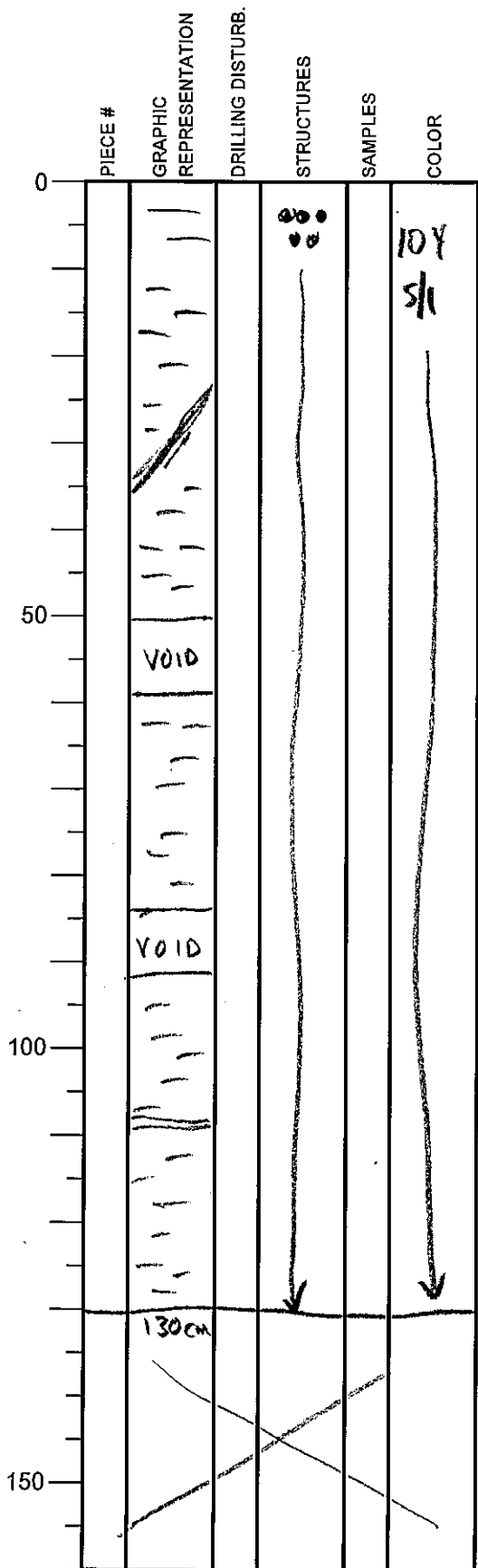
SILTY CLAY
 mottled throughout

42-48: ash

Integrated Ocean Drilling Program Visual Core Description

NO. 79
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 9
 SECTION: 8
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

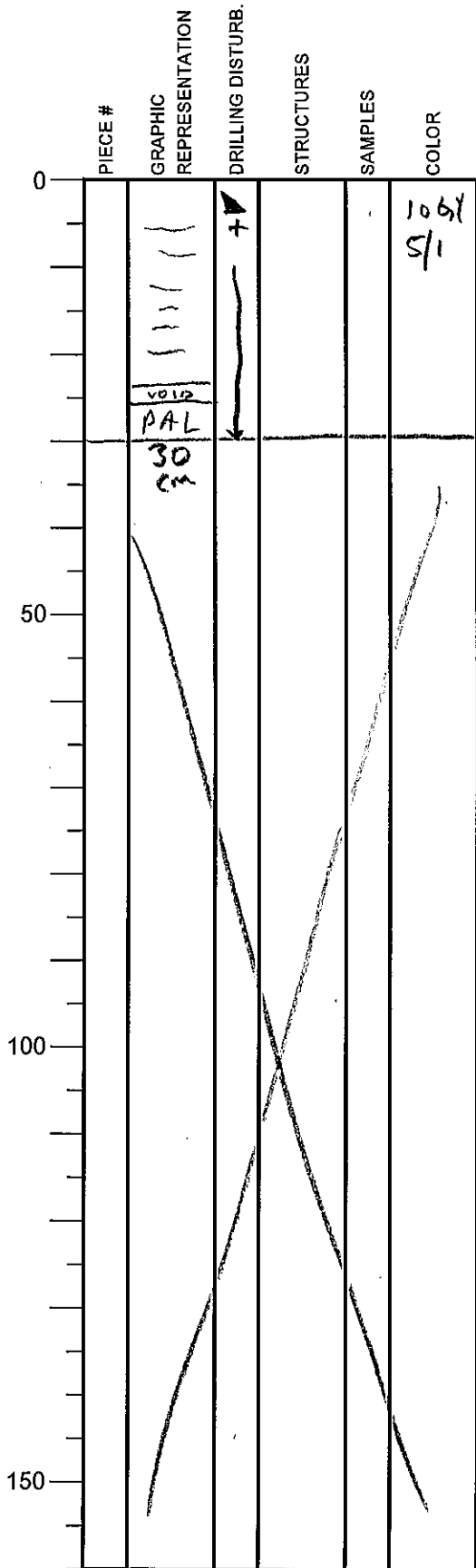
SILTY CLAY
 mottled throughout

24-34cm Fault

Integrated Ocean Drilling Program Visual Core Description

NO. 80
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C00213
 CORE: 9
 SECTION: CC
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER

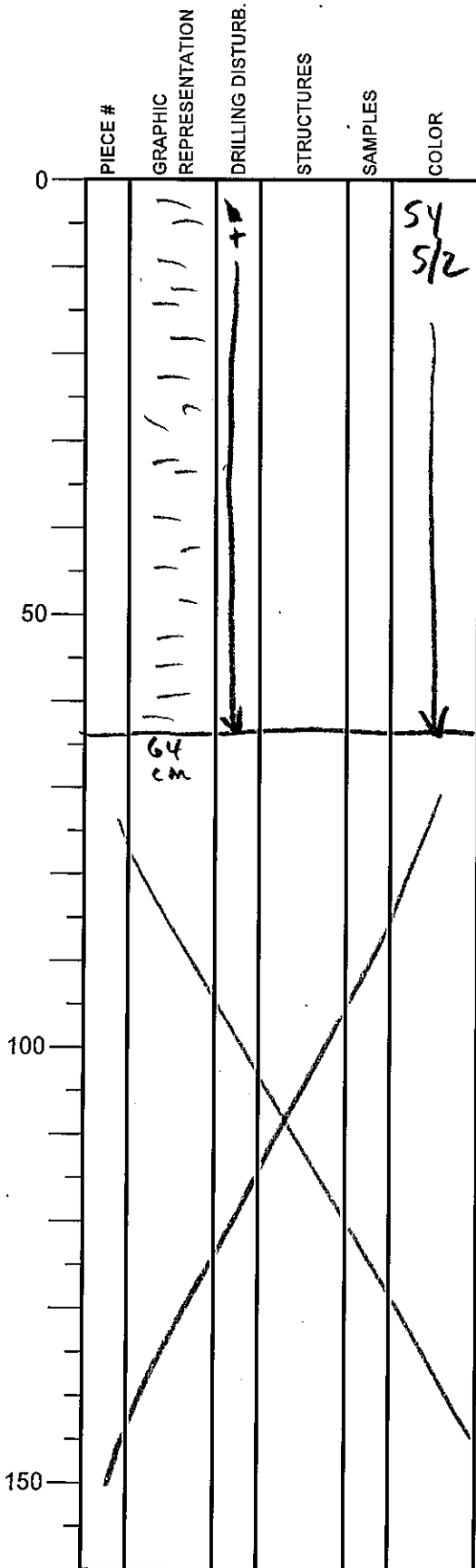


SECTION DESCRIPTION

SILTY CLAY
 highly disturbed

Integrated Ocean Drilling Program Visual Core Description

No. **81**
 DATE: **27/4/2013**
 EXP.: **338**
 SITE/HOLE: **C0021B**
 CORE: **10**
 SECTION: **1**
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY

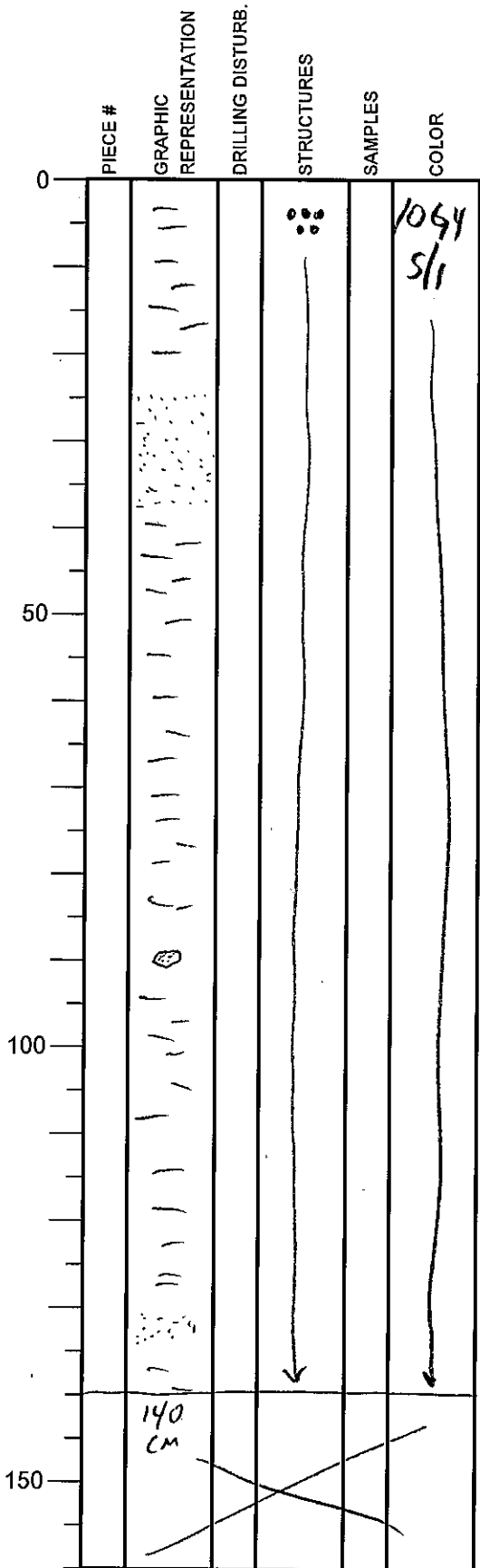
highly disturbed. Replaced liner.

OBSERVER: **D. SAWYER**

Integrated Ocean Drilling Program Visual Core Description

NO. 82
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: CO021B
 CORE: 10
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER

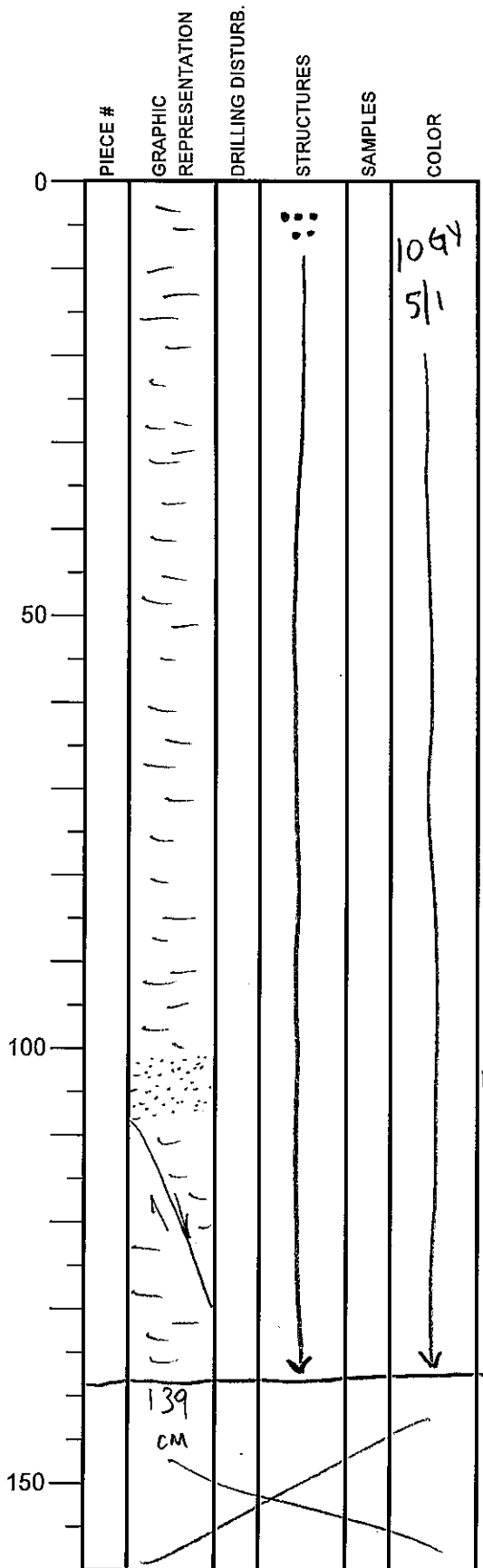


SECTION DESCRIPTION

SILTY CLAY

Integrated Ocean Drilling Program Visual Core Description

NO. 83
 DATE: 12/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 10
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY

mottled throughout.

102-107cm: dispersed ash

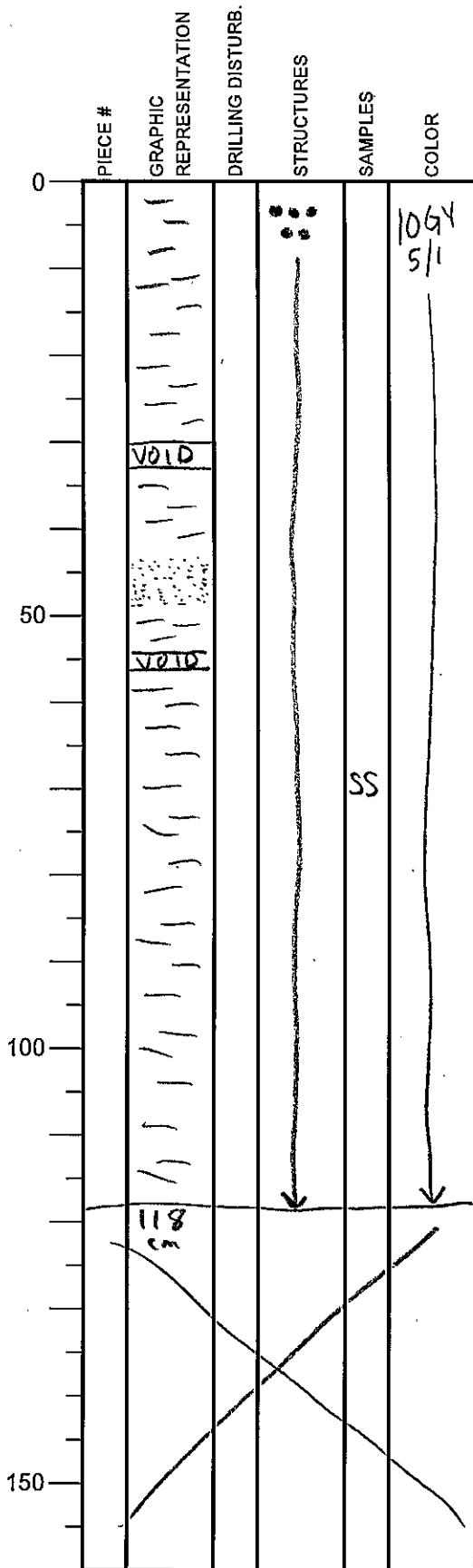
112-130cm: Fault. Seen in CT aslso.

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 84
 DATE: 11/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 10
 SECTION: 4
 TOP DEPTH (m GSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

mottled throughout

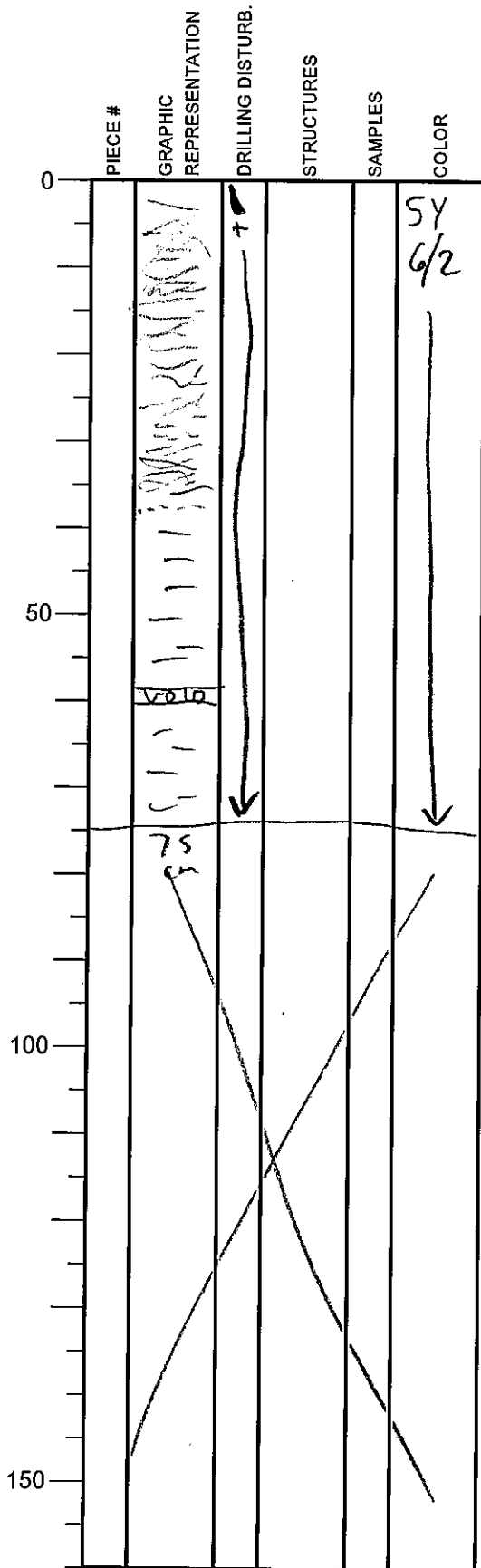
44-49cm ash

70cm; smear slide, see data sheet.

Integrated Ocean Drilling Program Visual Core Description

NO. 85
 DATE: 2/14/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 10
 SECTION: 5
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

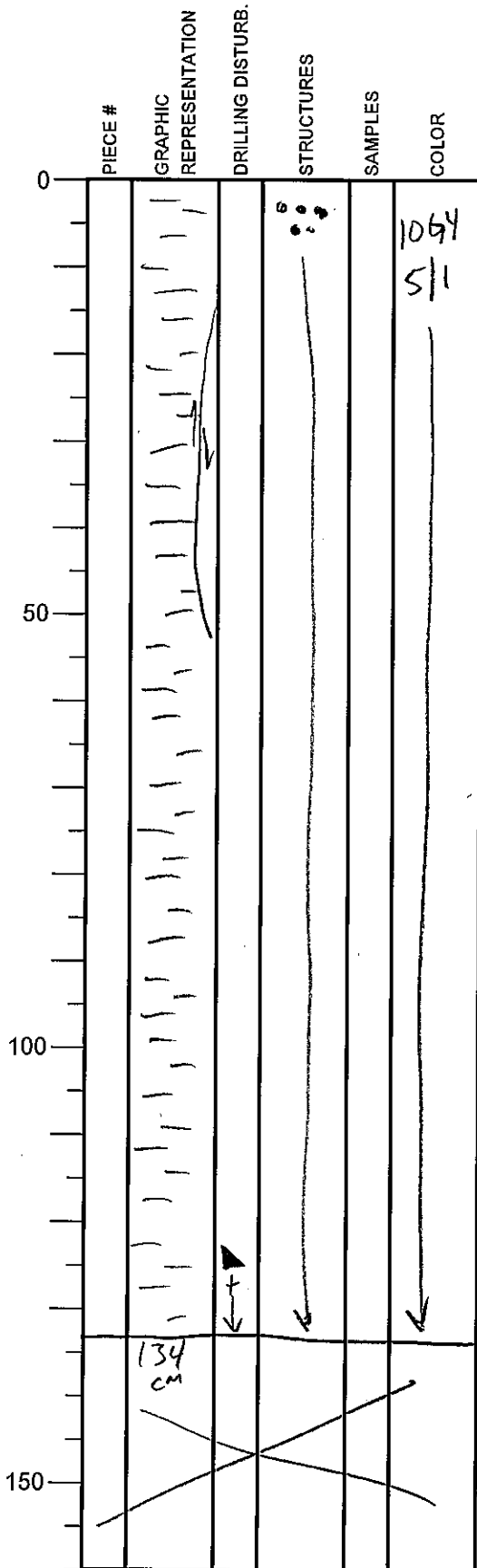
SILTY CLAY

highly disturbed,
replaced liner.

Integrated Ocean Drilling Program Visual Core Description

NO. 86
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 10
 SECTION: 6
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



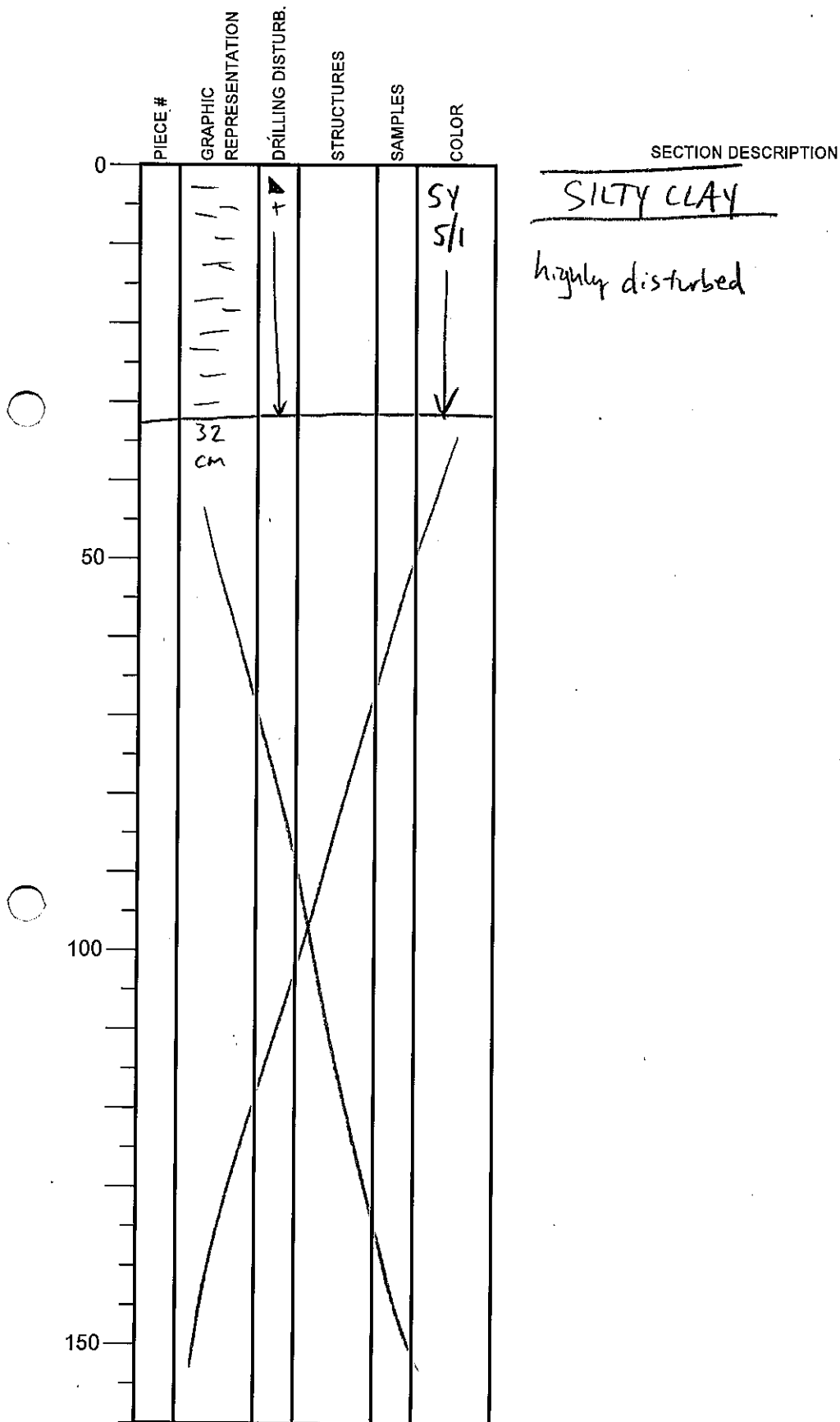
SECTION DESCRIPTION

SILTY CLAY
 Mottled throughout
 14-48cm: ~~star~~ Fault along r. plot side, also
 observed in CT.

Integrated Ocean Drilling Program Visual Core Description

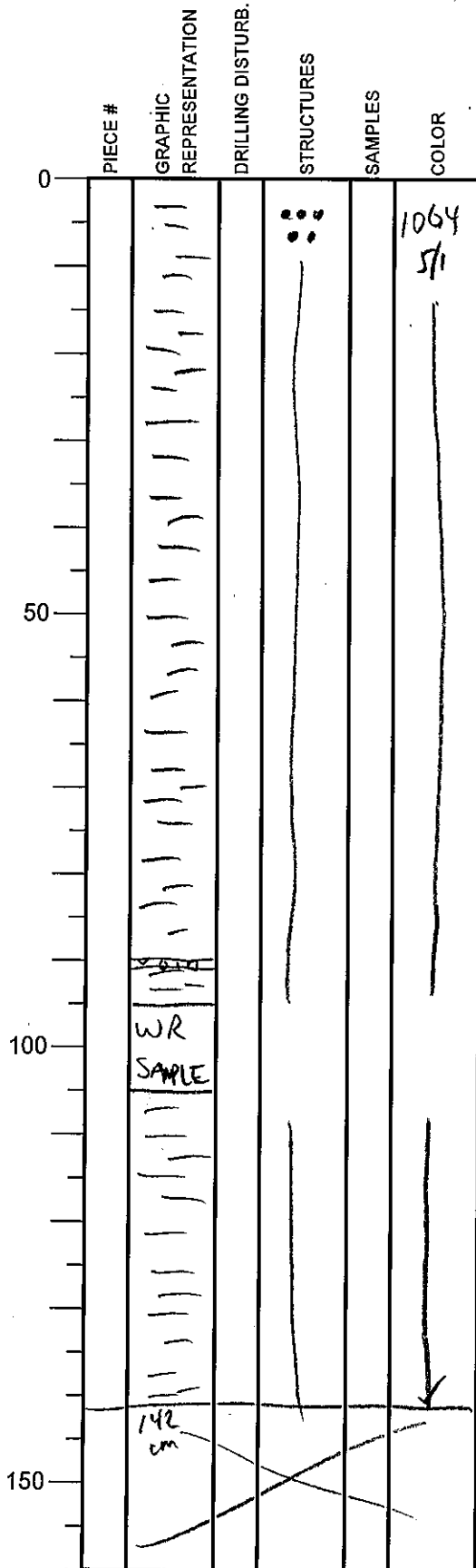
NO. 87
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 10
 SECTION: 7
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



Integrated Ocean Drilling Program Visual Core Description

NO. 88
 DATE: 27 4/20 13
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 10
 SECTION: 9
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

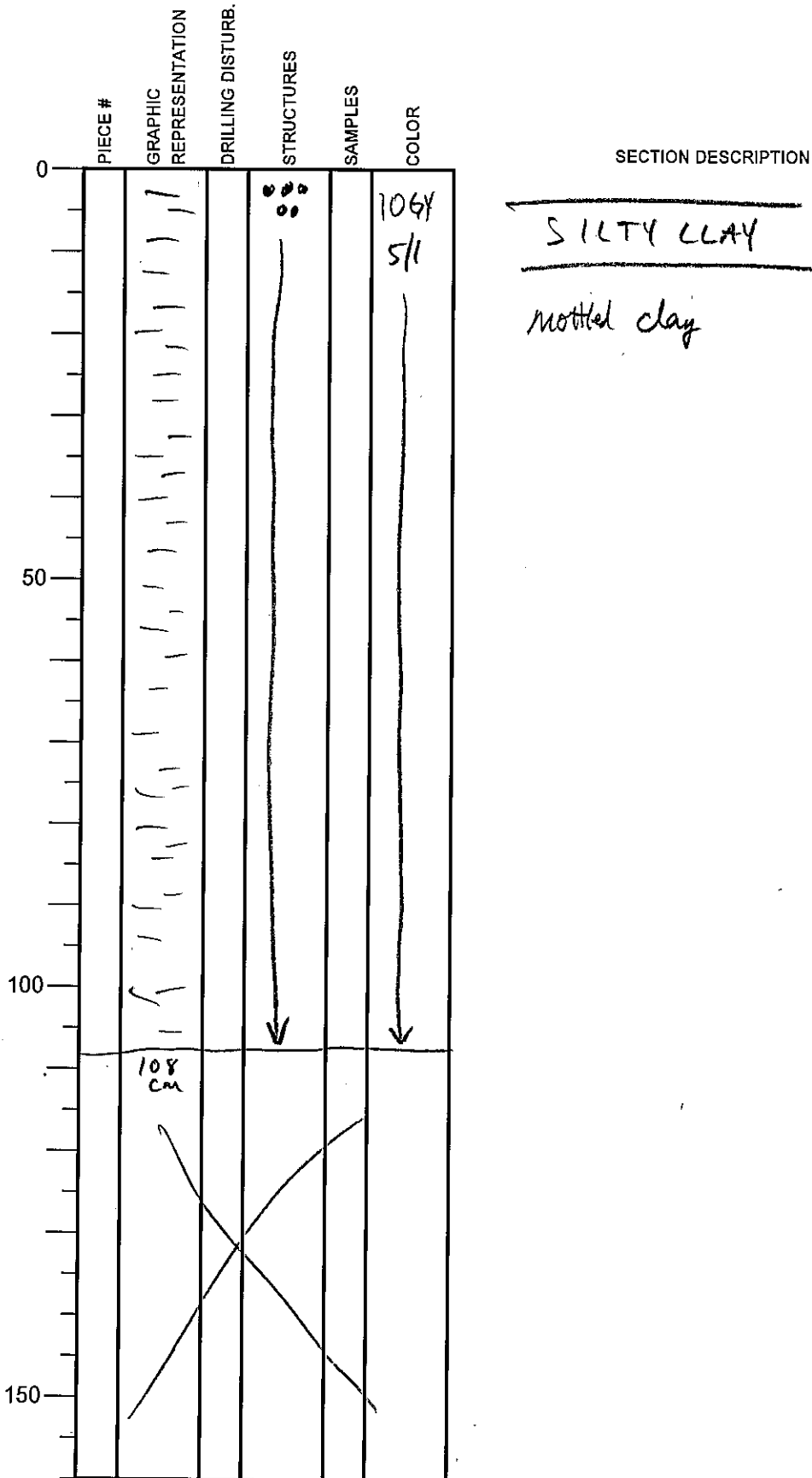
SILTY CLAY
 mottled clay throughout

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

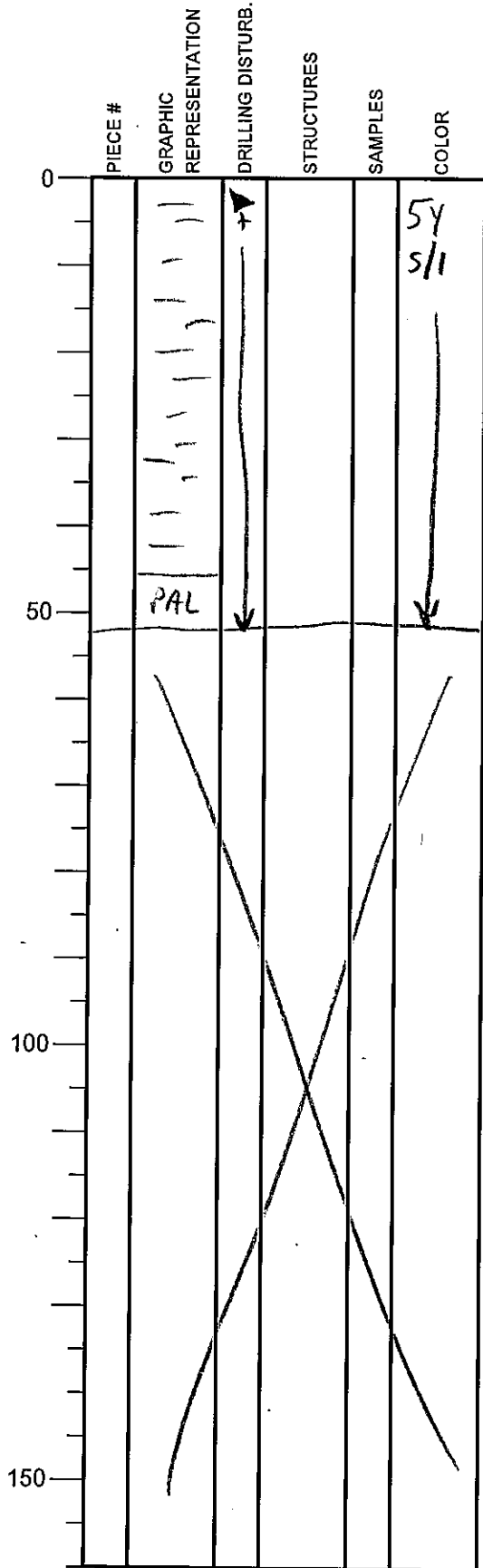
NO. 89
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE:
 CORE: 10
 SECTION: 10
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



Integrated Ocean Drilling Program Visual Core Description

NO. 90
 DATE: 27/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 10
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY

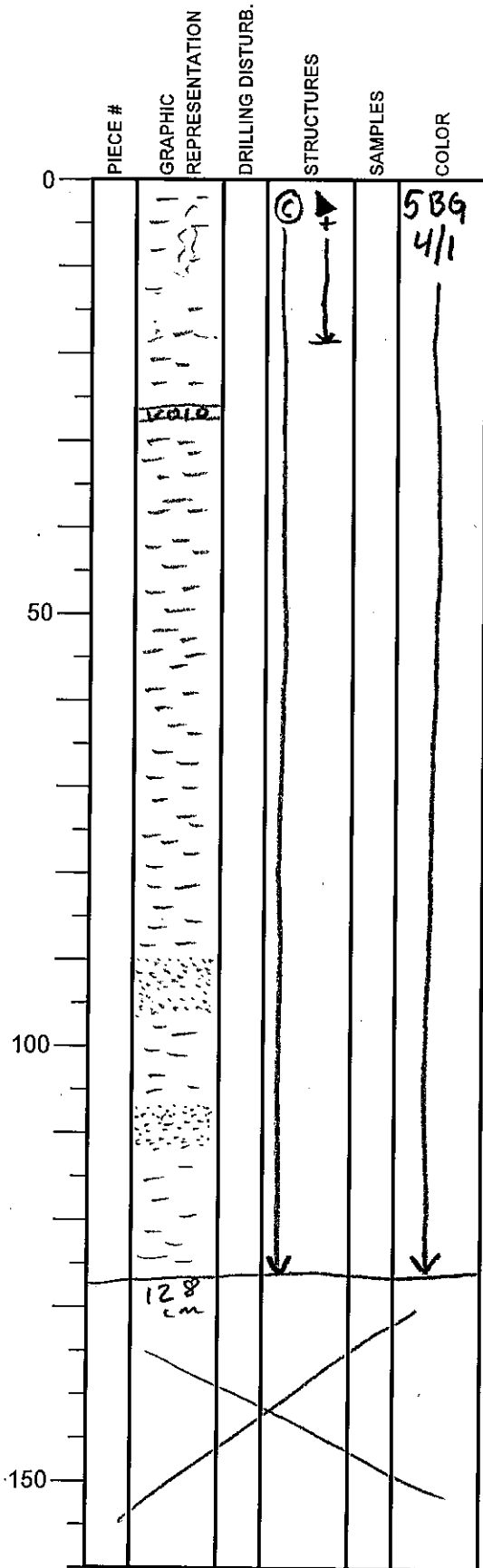
 highly disturbed

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 91
 DATE: 28/ 4/ 2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 11
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

0-20cm: highly disturbed (drilling/handling)

MTP.

90-97cm: dispersed coarse layer sand ~~or ash?~~

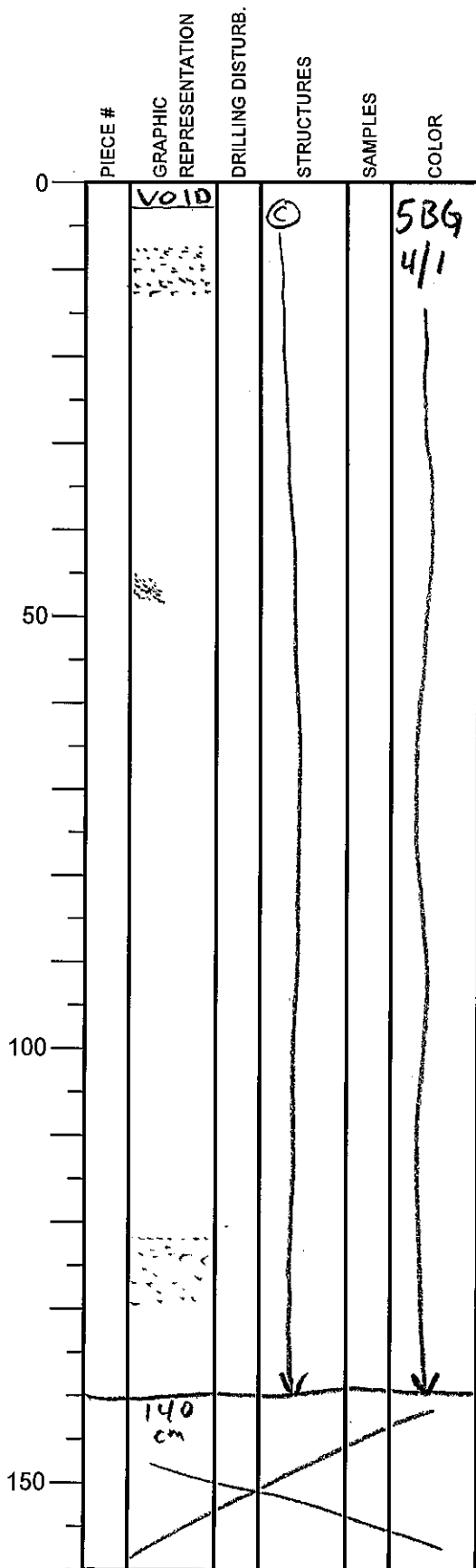
108-112cm: dispersed coarse layer sand or ash

Integrated Ocean Drilling Program

Visual Core Description

NO. 92
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 11
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY

7-73cm: dispersed sand/cath.

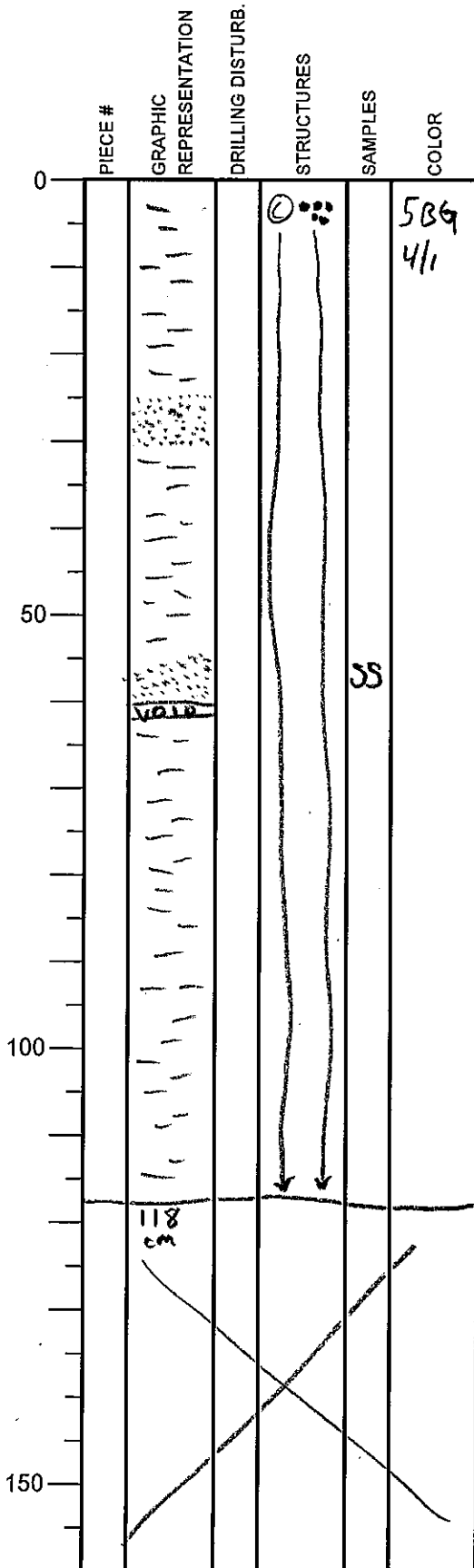
MTD.
Chaotic, tilted bedding throughout.

46-47cm: dispersed sand on left hand side.

123-130cm: dispersed sand/ash

Integrated Ocean Drilling Program Visual Core Description

No. 93
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 11
 SECTION: 3
 TOP DEPTH (m GSF):



SECTION DESCRIPTION

SILTY CLAY

OBSERVER: O.SAWYER

MTD.

mottled, chaotic throughout.

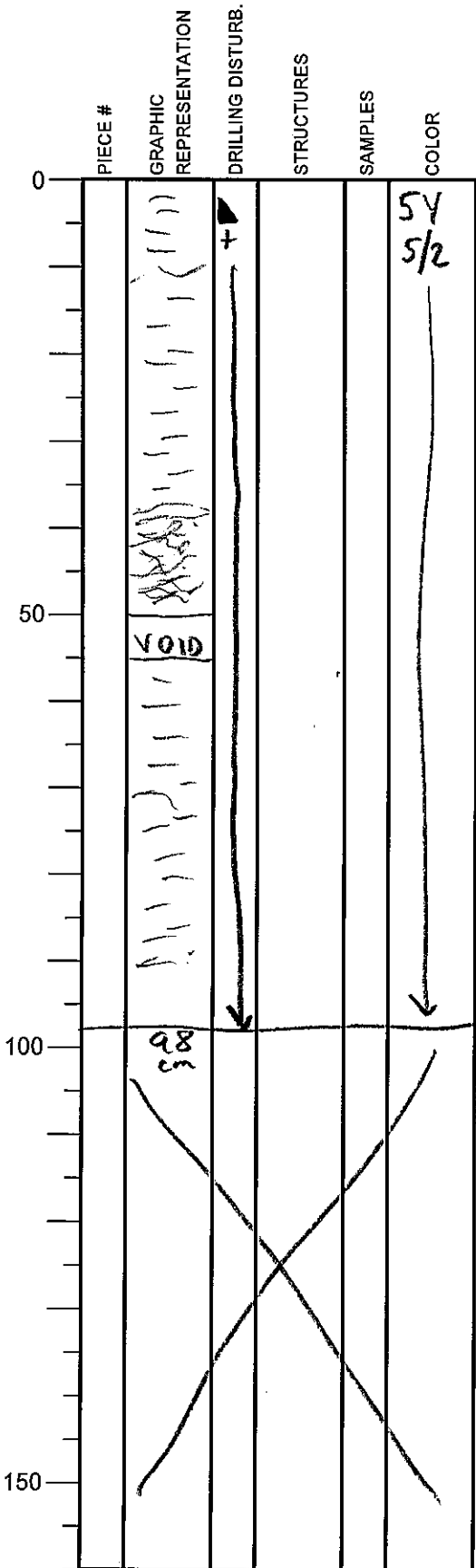
25-31cm: dispersed ~~fine~~ sand/ash.

55-60cm: sand layer

57cm: smear slide. see data sheet.

Integrated Ocean Drilling Program
Visual Core Description

NO. 94
DATE: 28/4/2013
EXP.: 338
SITE/HOLE: C0021 B
CORE: 11
SECTION: 4
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: D. SAWYER

SILTY CLAY

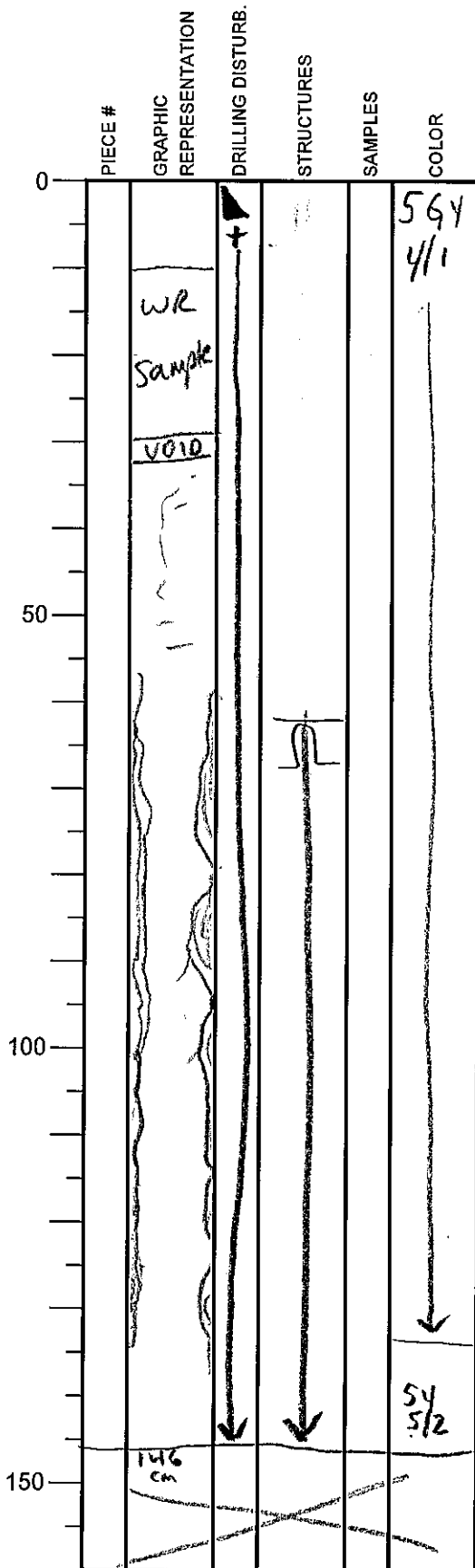
Highly disturbed.

"heated, spread, replaced liner!"

Yellow/brown due to exposure to air.

Integrated Ocean Drilling Program Visual Core Description

No. 95
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 11
 SECTION: 5
 TOP DEPTH (m CSF):



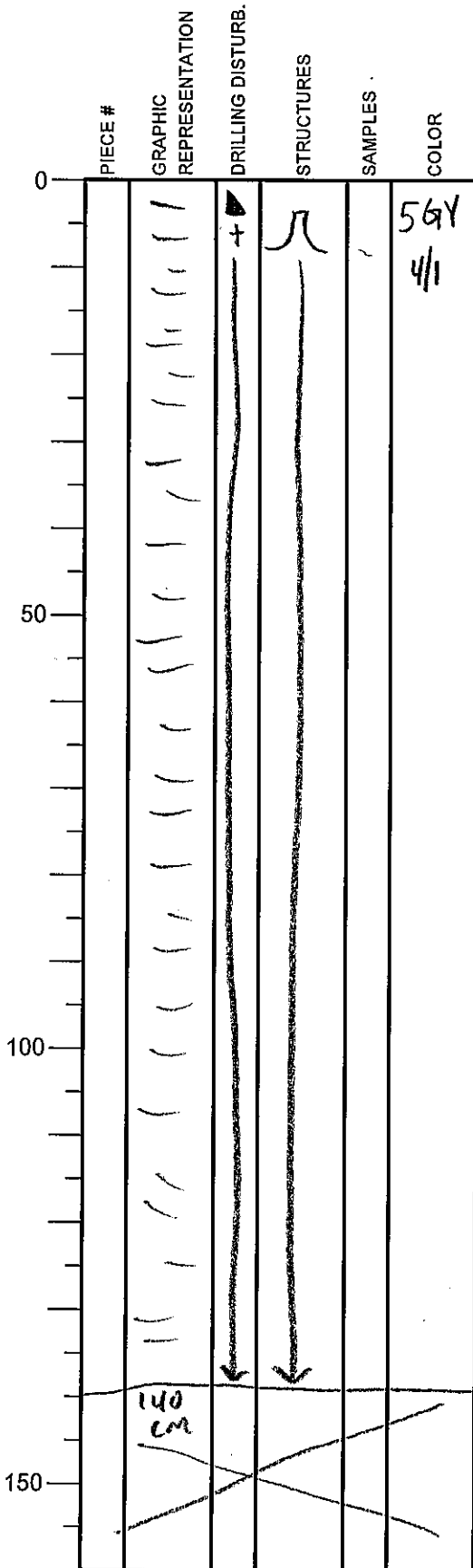
SECTION DESCRIPTION

OBSERVER: D. SAWYER

SILTY CLAY
 highly disturbed (drilling/coring)
Flow-in disturbance throughout

Integrated Ocean Drilling Program Visual Core Description

NO. 96
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 11
 SECTION: 6
 TOP DEPTH (m CSF):



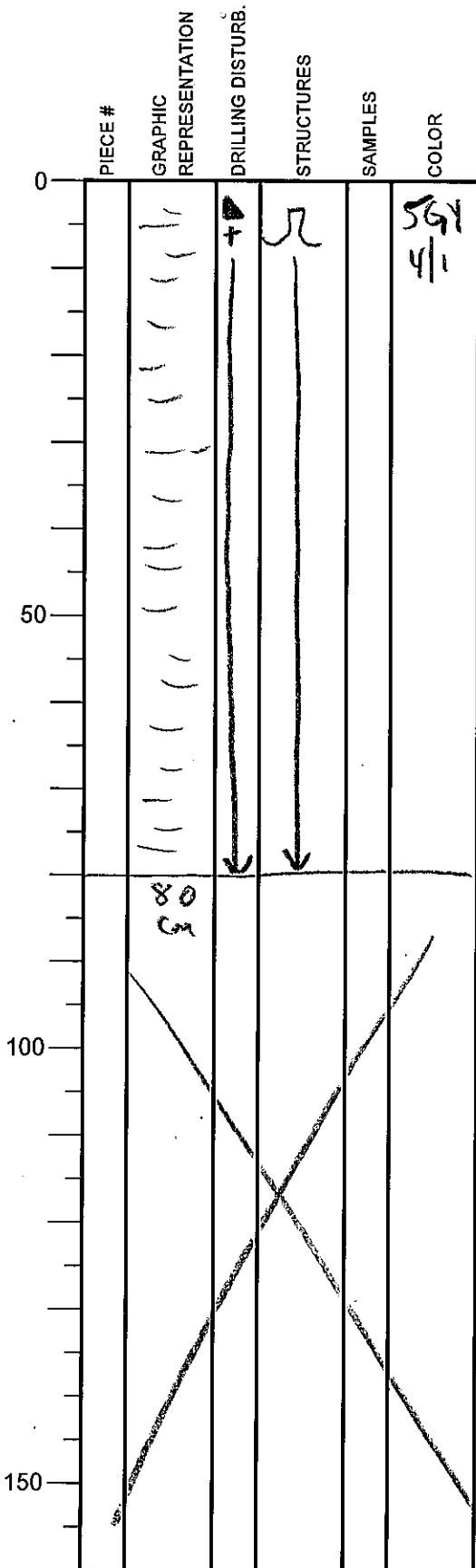
SECTION DESCRIPTION

SILTY CLAY

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 97
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 11
 SECTION: 7
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

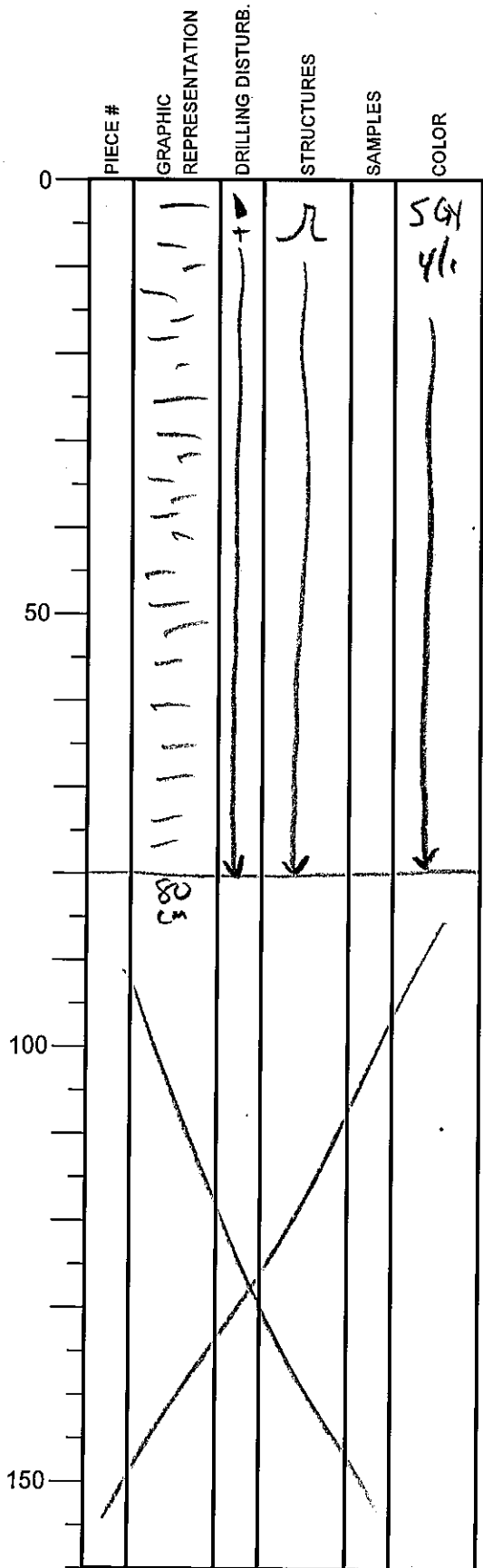
OBSERVER: D. SAWYER

SILTY CLAY
 heavily disturbed.
 Flow-in structures throughout.

Integrated Ocean Drilling Program

Visual Core Description

NO. 98
 DATE: 20/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 11
 SECTION: 8
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

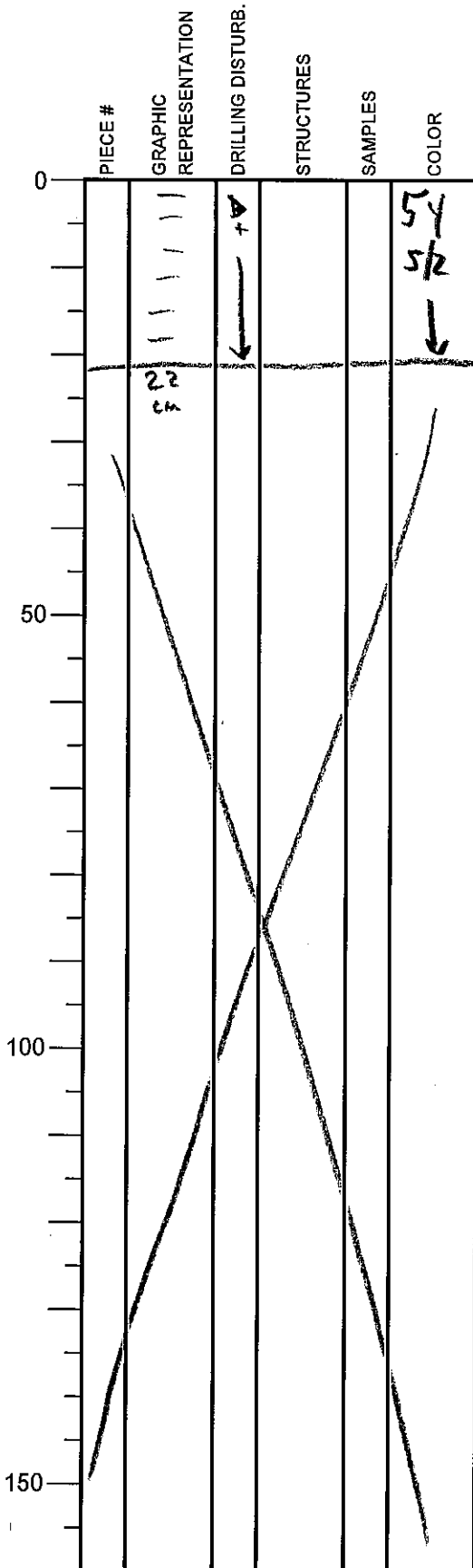
SILTY CLAY

heavily disturbed
 Flow-in Structures
 throughout

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 99
 DATE: 2^o/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 11
 SECTION: 9
 TOP DEPTH (m GSF):



SECTION DESCRIPTION

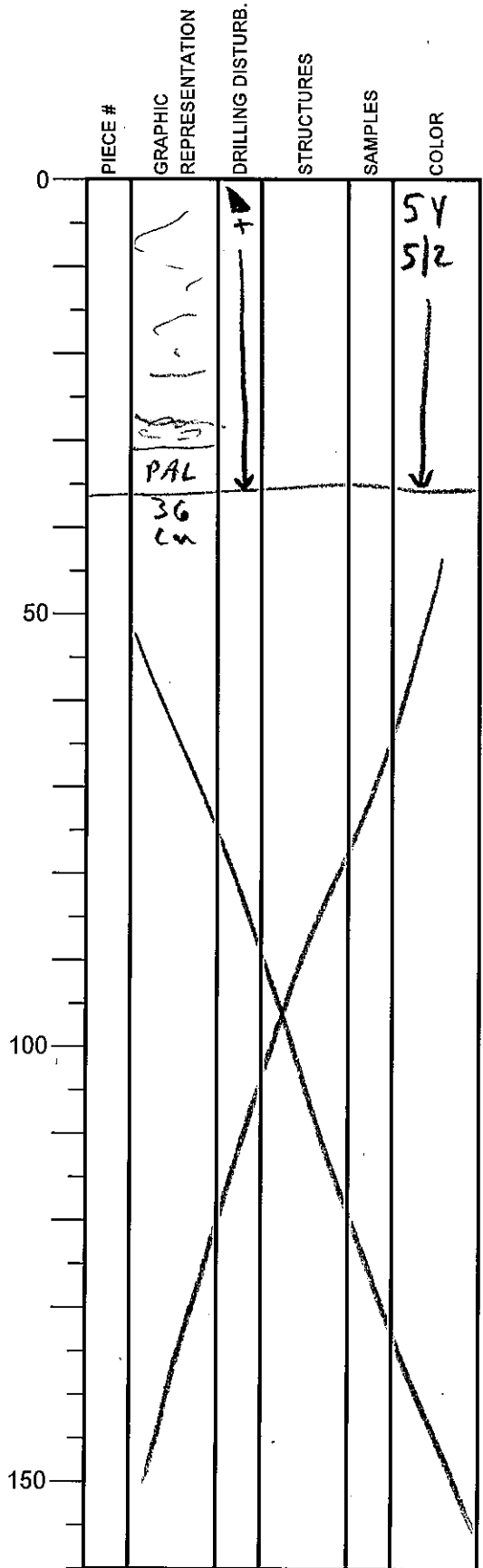
SILTY CLAY

heavily disturbed.

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 100
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 11
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY

 heavily disturbed

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 101
 DATE: 28/ 4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 12
 SECTION: 1
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		V010		••••		5G4 S/1
50		49 cm				
100						
150						

SECTION DESCRIPTION

SILTY CLAY

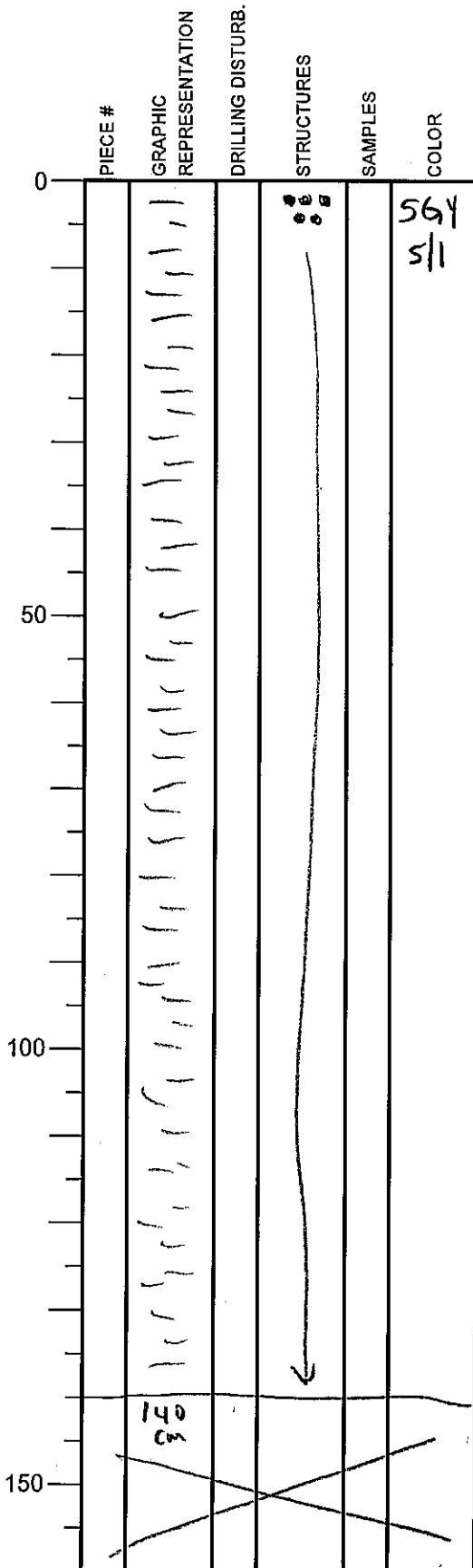
mottled

OBSERVER: D.SAWYER

Integrated Ocean Drilling Program Visual Core Description

No. 102
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 12
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

SILTY CLAY
 mottled throughout

Integrated Ocean Drilling Program Visual Core Description

NO. 103
 DATE: 2/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 12
 SECTION: 4
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		1.5				5G4 5/1
		VOID				
		VOID				
50						
100		90 cm				
150						

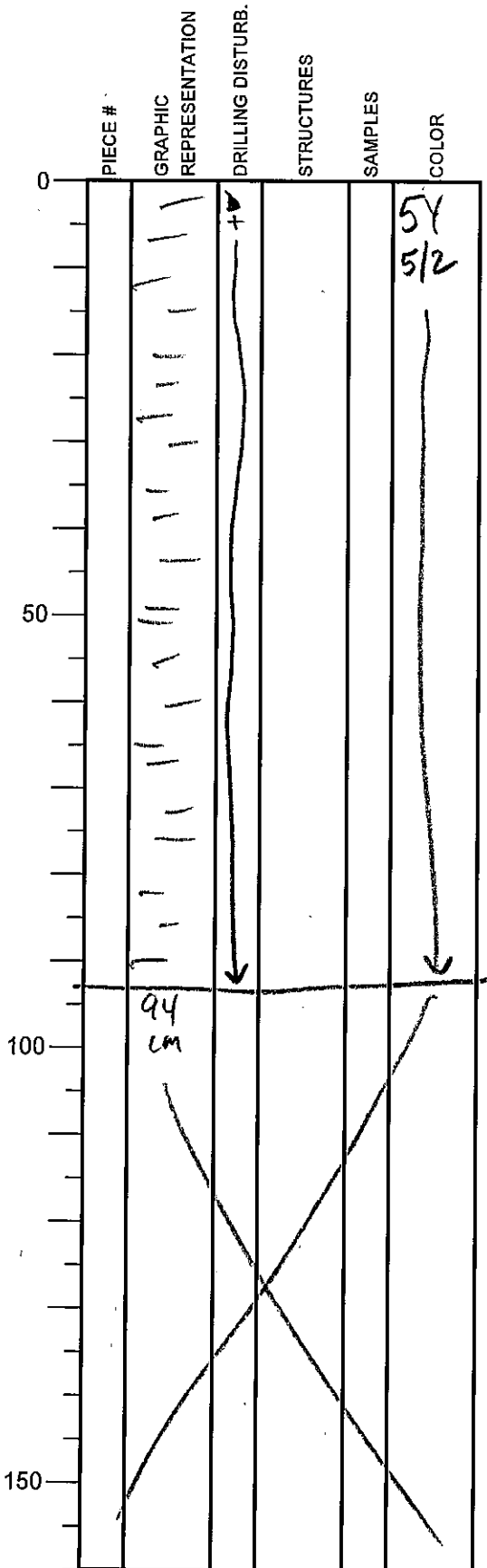
SECTION DESCRIPTION

SILTY CLAY

62-84 cm: disturbed layer, potentially coarser (higher sand fraction).

Integrated Ocean Drilling Program Visual Core Description

NO. 104
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 12
 SECTION: 5
 TOP DEPTH (m CSF):



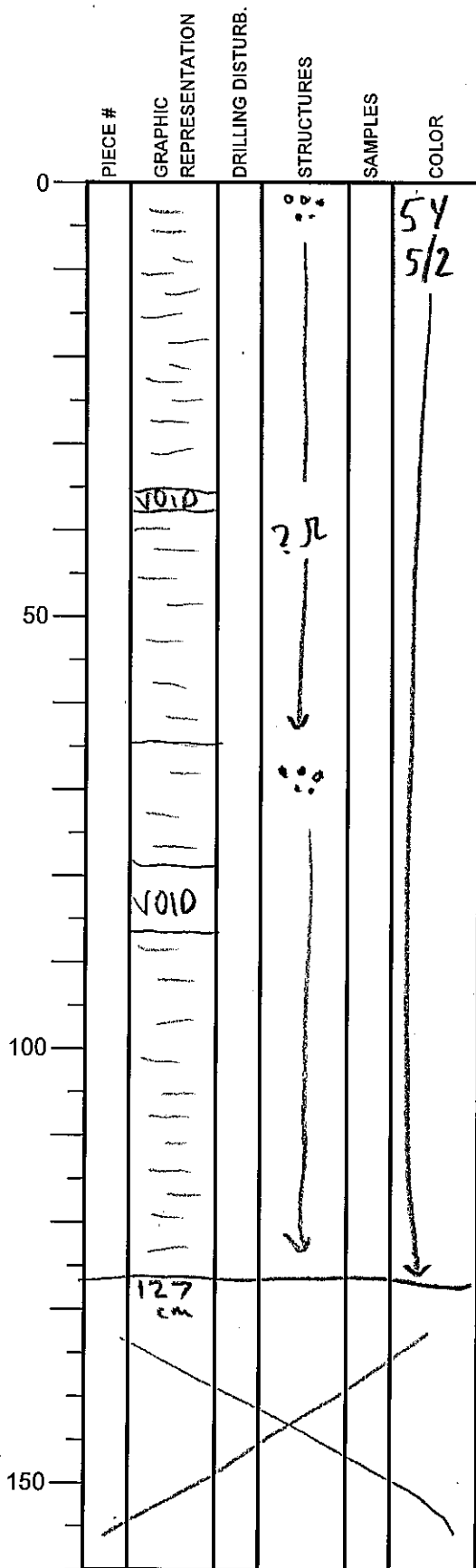
SECTION DESCRIPTION

SILTY CLAY
 highly disturbed

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

No. 105
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 12
 SECTION: 6
 TOP DEPTH (m GSF):



SECTION DESCRIPTION

OBSERVER: D. SAWYER

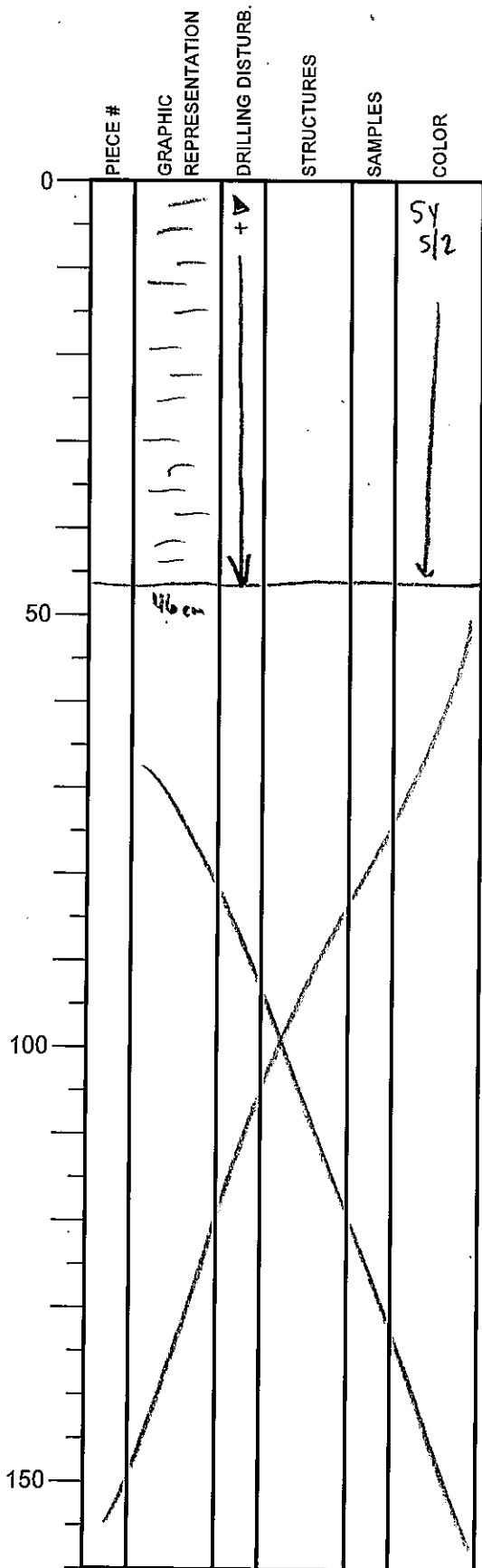
SILTY CLAY

39-64: potential flow in structure.

Integrated Ocean Drilling Program Visual Core Description

NO. 106
 DATE: 08/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 12
 SECTION: CC
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



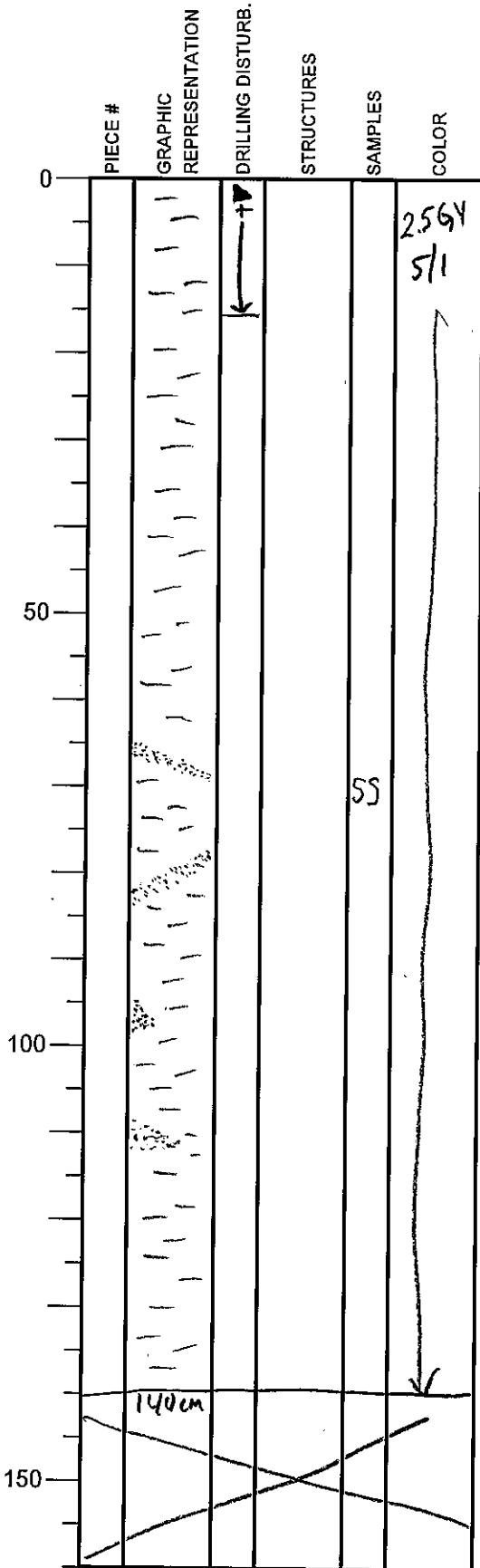
SECTION DESCRIPTION

SILTY CLAY

highly disturbed

Integrated Ocean Drilling Program Visual Core Description

NO. 107
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 13
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: D. SAWYER

SILTY CLAY w/ thin interbedded sands

0-15cm: highly disturbed.

mottled/homogeneous

66-69cm: dipping sand layer
 70cm: shear slide
 78-83cm: dipping sand layer (opposite dip direction relative to above sand).

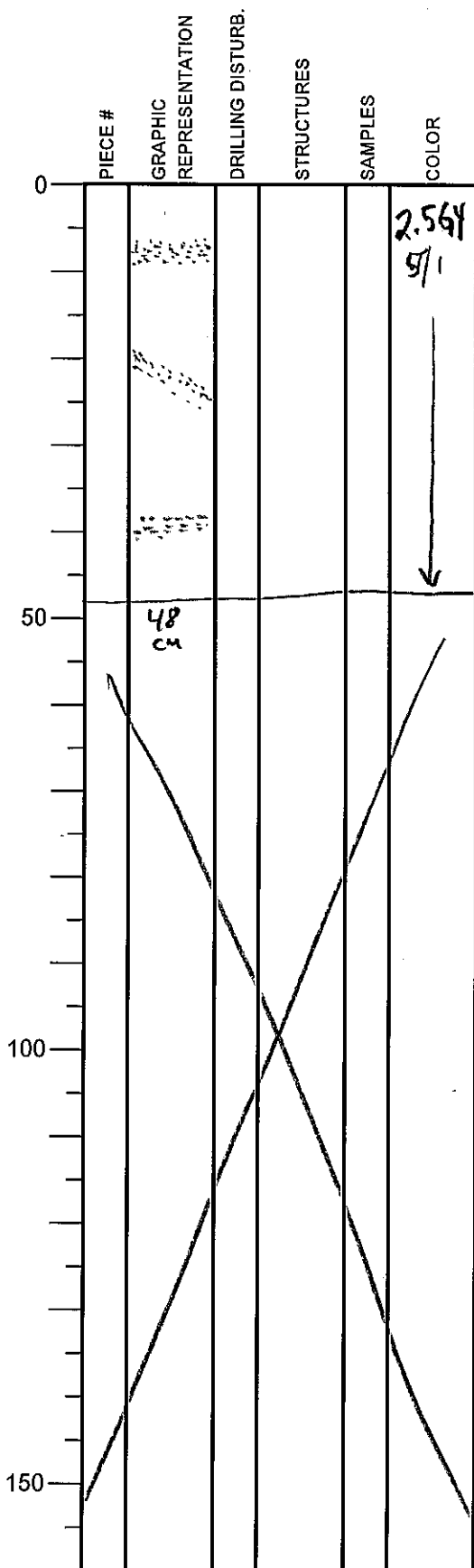
95-97cm: dispersed sand.

109-111cm: dispersed sand.

Integrated Ocean Drilling Program

Visual Core Description

NO. 108
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C00213
 CORE: 13
 SECTION: 2
 TOP DEPTH (m CSF):



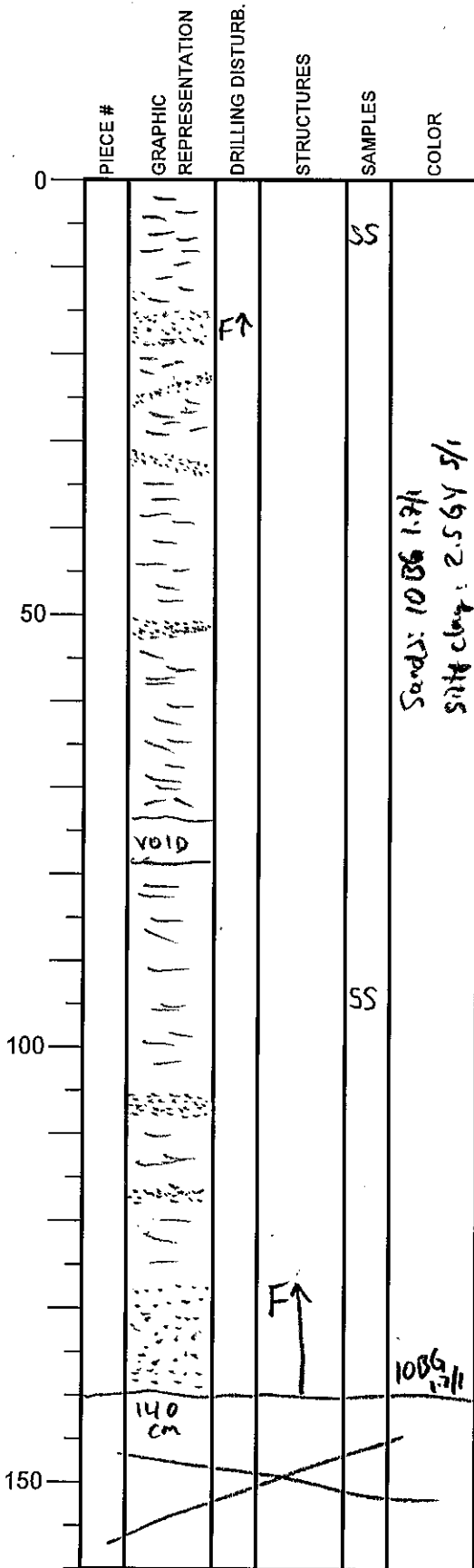
SECTION DESCRIPTION

OBSERVER: D. SAWYER

SILTY CLAY, thin sand layers interbedded
 7-8cm: thin sand.
 19-24: dipping thin sand.
 38-40cm thin sand.

Integrated Ocean Drilling Program Visual Core Description

No. 109
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 13
 SECTION: 4
 TOP DEPTH (m CSF):



SECTION-DESCRIPTION
SILTY CLAY, interbedded sand

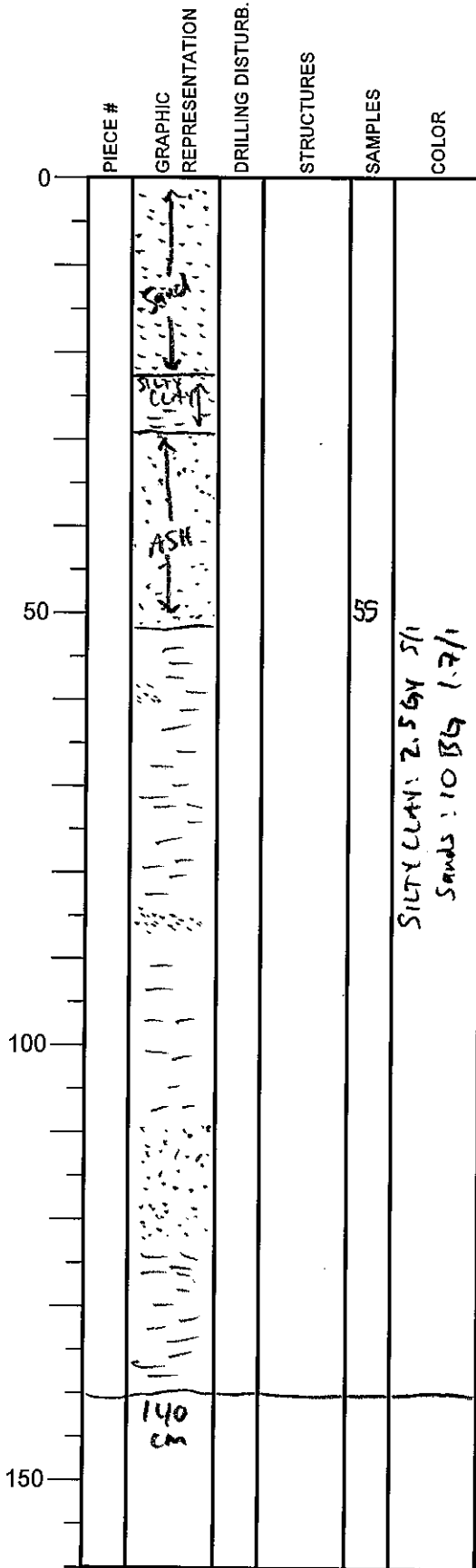
OBSERVER: D. SAWYER

7cm: smear slide
 5-8cm: thin sand. sharp base, gradational top.
 26-24cm: thin sand
 33-34cm: thin, dipping sand
 51-53cm: thin sand
 94cm: smear slide
 106-108cm: thin sand.
 116: thin, dark sand.
 127-140cm: sand, fining upward. gradational top.

Integrated Ocean Drilling Program

Visual Core Description

NO. 110
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 13
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: D. SAWYER

SILTY CLAY intersbedded sand

0-22cm: sand. (med). sharp base.

ash washed out b/t 30-47cm.

48cm: Smear Slide

58cm: dispersed sand.

86-87cm: dispersed ash

110-122cm: dispersed coarse layer sand or ash

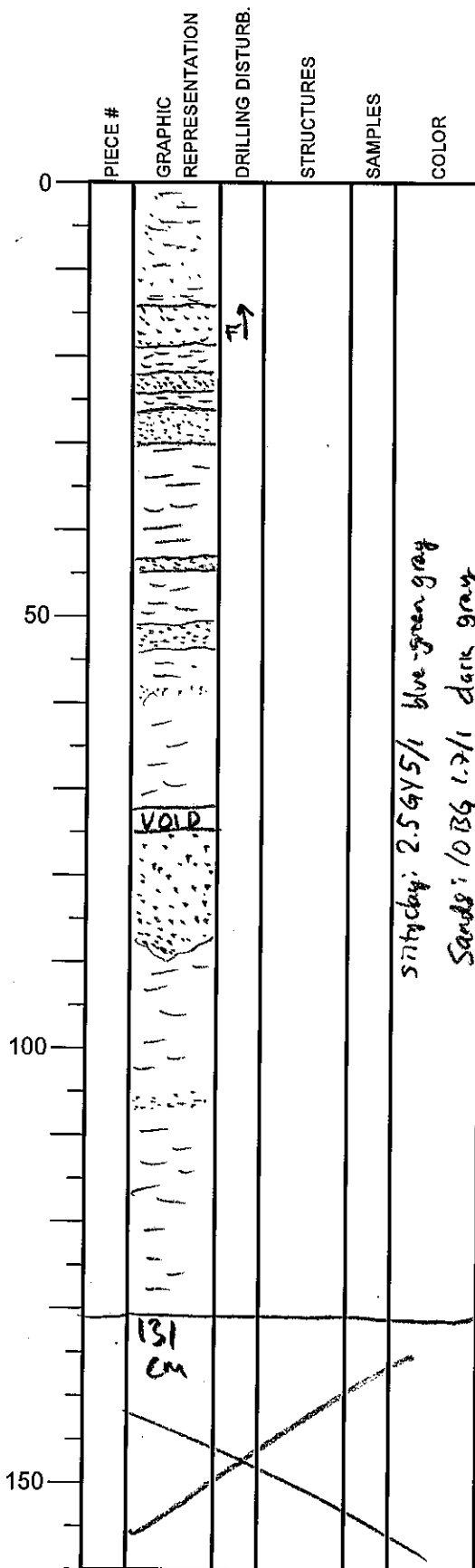
SILTY CLAY: 2.56% S/I
 SANDS: 10.15% S/I

140
cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 111
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 13
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: D. SAWYER

Interbedded silty clay, sand

Sands becoming thicker (~3cm → 12cm)

0-12cm: dispersed sand.

13-18cm: Sand

23-24cm: Sand

26-30cm: Sand

44cm: sand

52-54 cm: Sand

58 cm: dispersed sand.

Sand w/
 75-89cm: irregular base (erosional?)

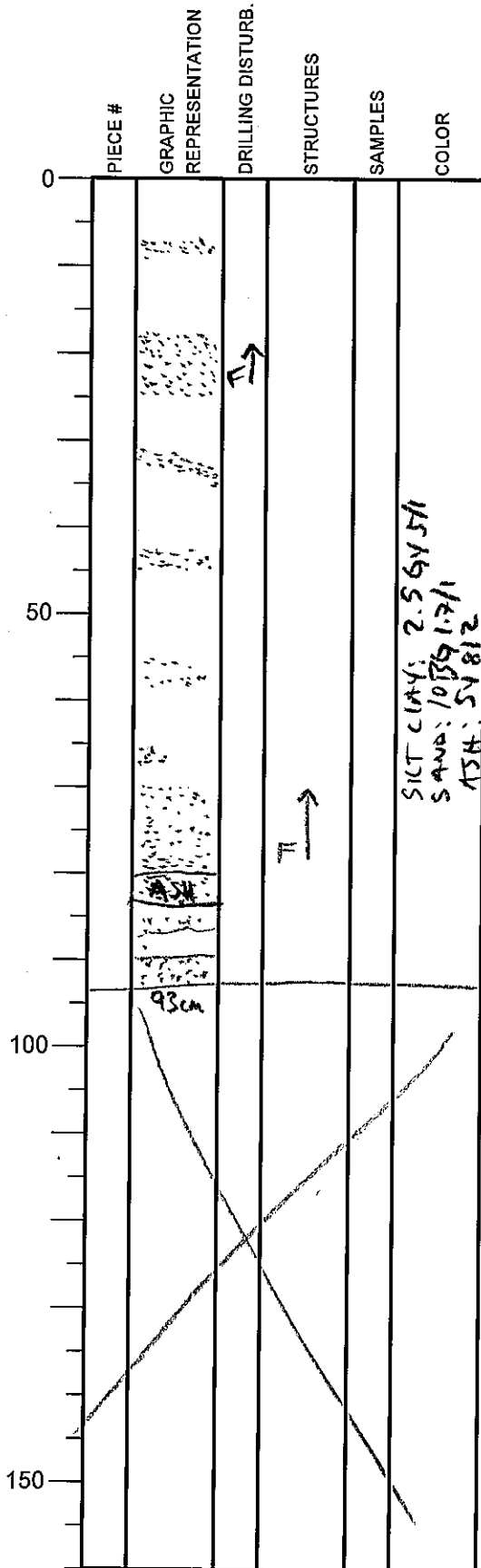
116cm: ash/sand

silty clay: 2.5 GY 5/1 blue-green gray
 Sands: 10 BG 1.7/1 dark gray

Integrated Ocean Drilling Program

Visual Core Description

NO. 112
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 13
 SECTION: 7
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: D. SAWYER

SILTY CLAY INTERBEDDED W/ SAND

7-8cm: sand

18-24cm: fining upward sand

31-34cm: dipping sand

42-44cm: ash

55-59cm: dispersed ash

66-69cm: dispersed sand

70-78cm: Sand, fining up, sharp base. Ash at base.

80-82cm: ash

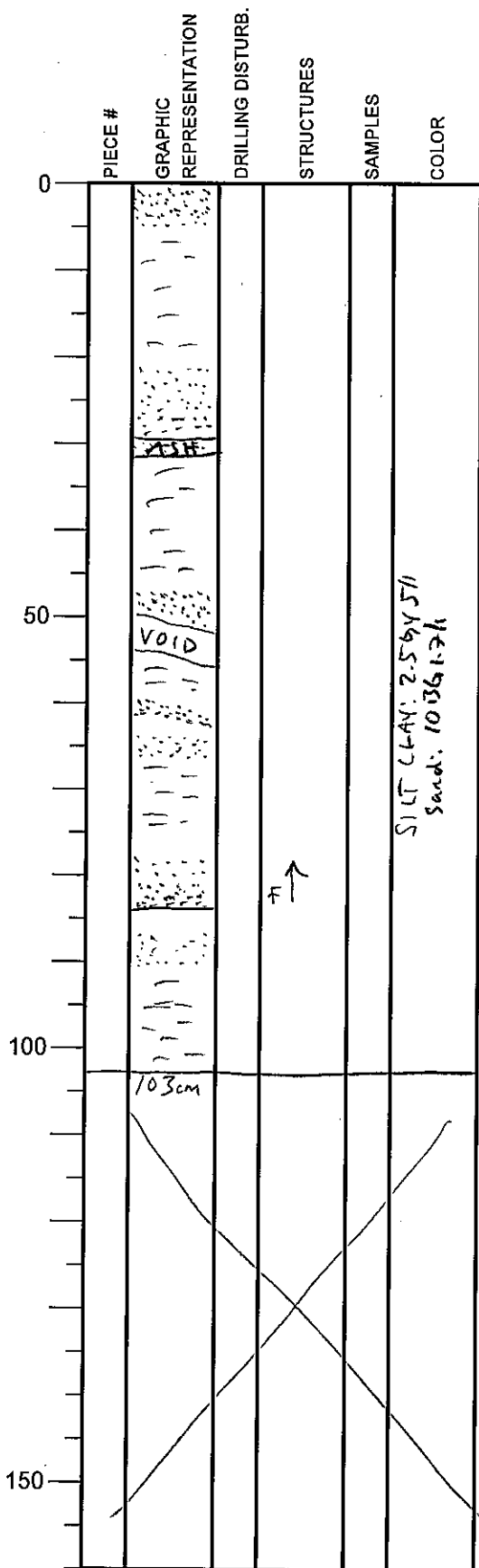
83cm: dispersed sand

84-93cm: sand

Integrated Ocean Drilling Program

Visual Core Description

NO. 113
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 13
 SECTION: 8
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: D. SAWYER

Interbedded Silty clay and Sand

0-5cm: Sand

38-39 cm: Sand.
 39cm: ash

48cm-50cm: Sand.

60-63cm: Sand.
 63-66cm: dispersed Sand.



79-84cm: Fining up Sand w/ ^{fine-grained} pyrite at base. Sharp base.

88-92cm: dispersed Sand.

Integrated Ocean Drilling Program Visual Core Description

No. 114
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 13
 SECTION: CC
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						
100						
150						

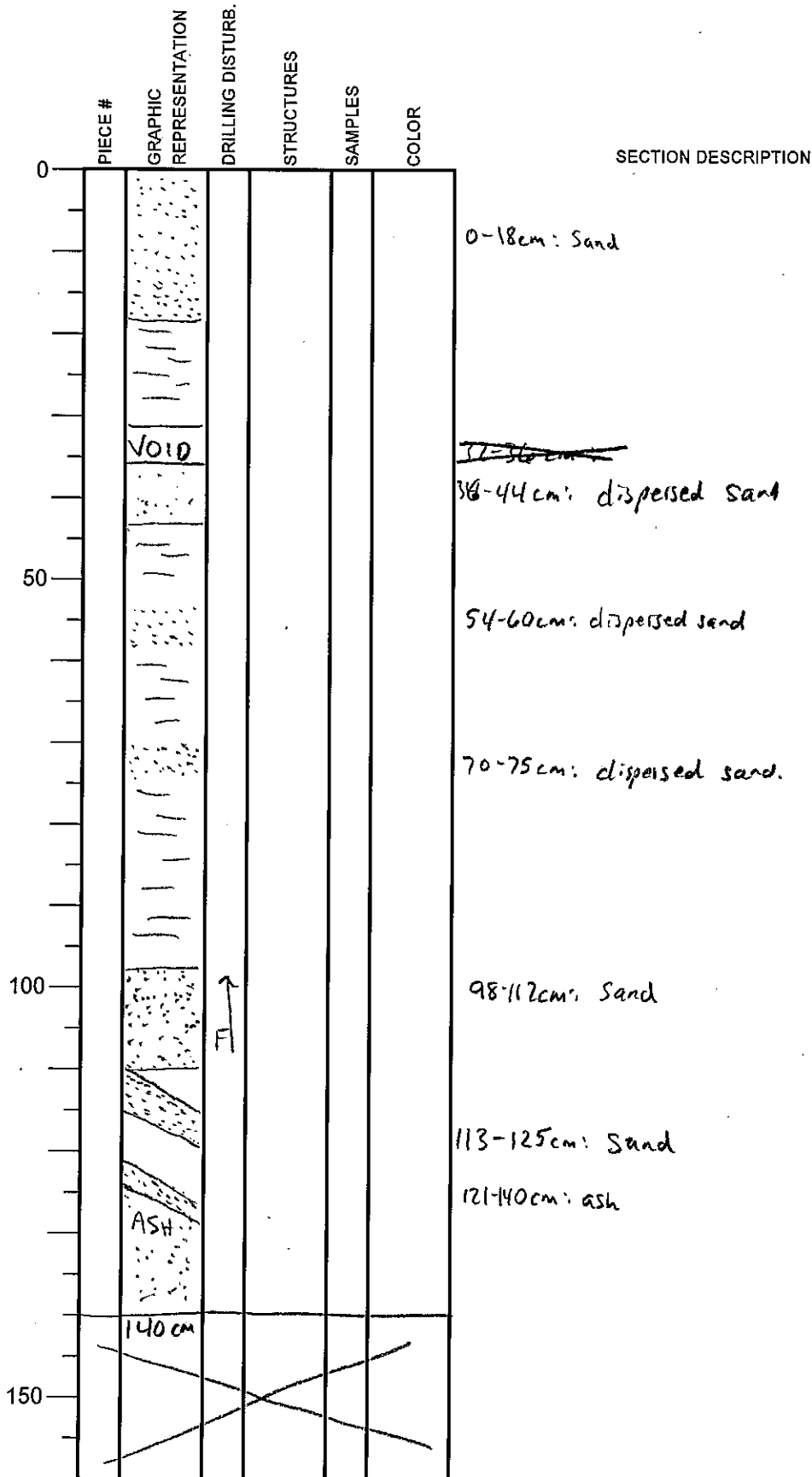
SECTION DESCRIPTION

SILTY CLAY
 highly disturbed

Integrated Ocean Drilling Program Visual Core Description

NO. 115
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 14
 SECTION: 1
 TOP DEPTH (m CSF):

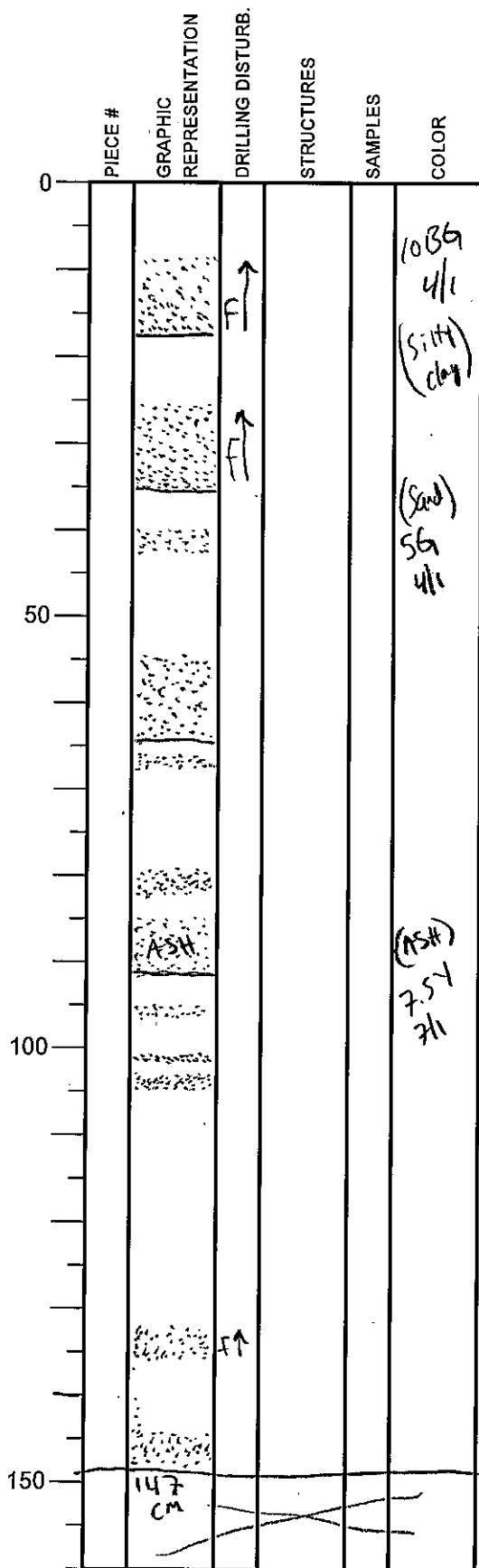
OBSERVER: D. SAWYER



Integrated Ocean Drilling Program

Visual Core Description

NO. 116
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 14
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY INTERBEDDED w/ fine sand OBSERVER: D. SAWYER

1036
 4/1
 (silt)
 clay
 9-18cm Sand, f. upward.

27-35cm sand. sharp base, Finng up.

(Sand)
 56
 4/1
 41-43cm sand.

55-64cm sand. Finng upward, sharp base.

67-68cm, dispersed sand

81-83cm

(ASH)
 7.5
 7/1
 84-92cm ash.

96cm: dispersed sand

101cm: thin sand

103-105cm: sand

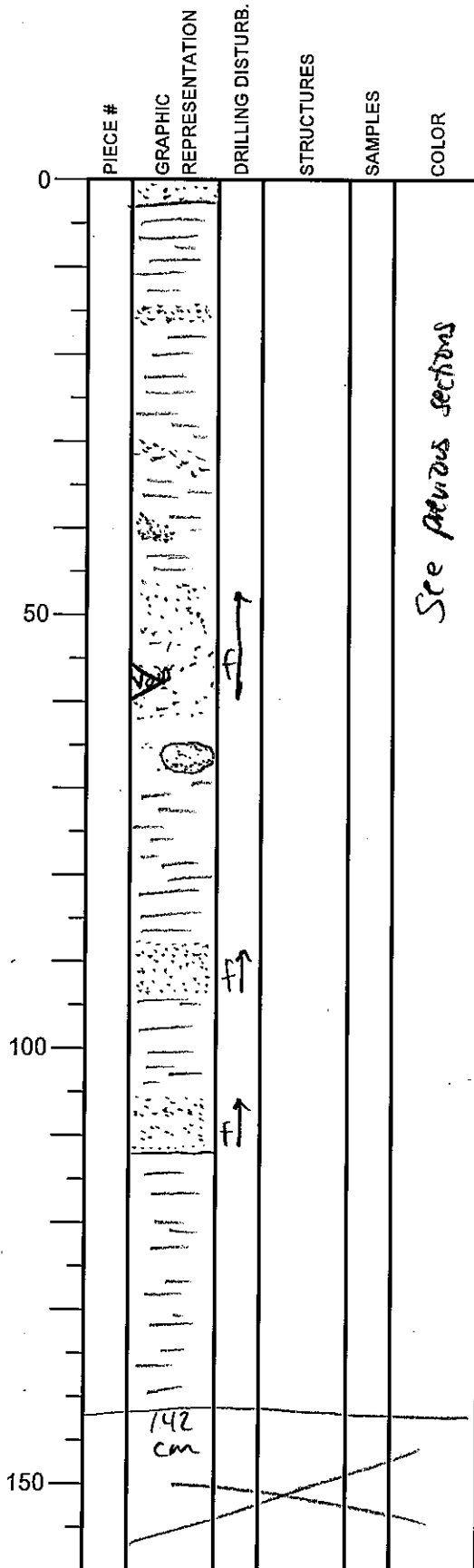
133-136cm: Finng upward sand

144-147cm: SAND.

Integrated Ocean Drilling Program

Visual Core Description

NO. 117
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 14
 SECTION: 4
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

0-1 cm sand
 15-17cm: sand
 31-34cm sand
 39-41cm: sand
 48-64cm sand
 66-69cm: sand, isolated patch.
 88-94cm: sand, fining upward.
 105-113cm: fining upward sand. sharp base

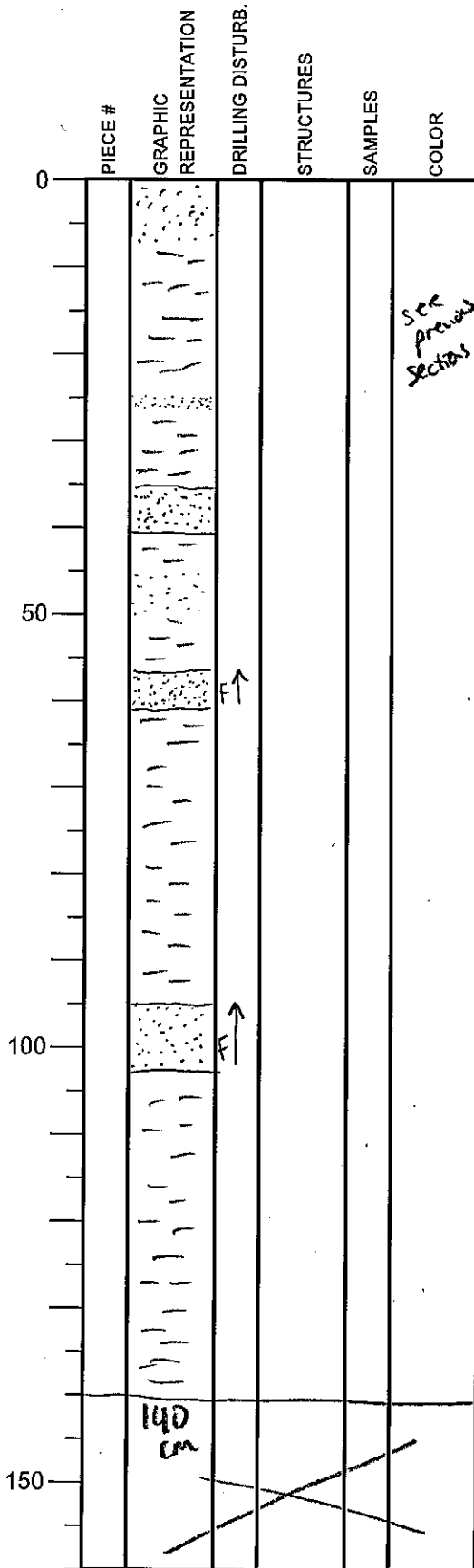
SILTY LAY
INTERBEDDED w/ SAND

OBSERVER: D. SAWYER

Integrated Ocean Drilling Program Visual Core Description

NO. 118
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 14
 SECTION: 5
 TOP DEPTH (m CSF):

OBSERVER: D. SAWYER



SECTION DESCRIPTION

0-7cm : dispersed sand.

SEE
PREVIOUS
SECTION

26-27cm : dispersed sand.

SILTY CLAY
INTERBEDDED
w/ SAND

36-41cm : Fine sand, Fining up, sharp base.

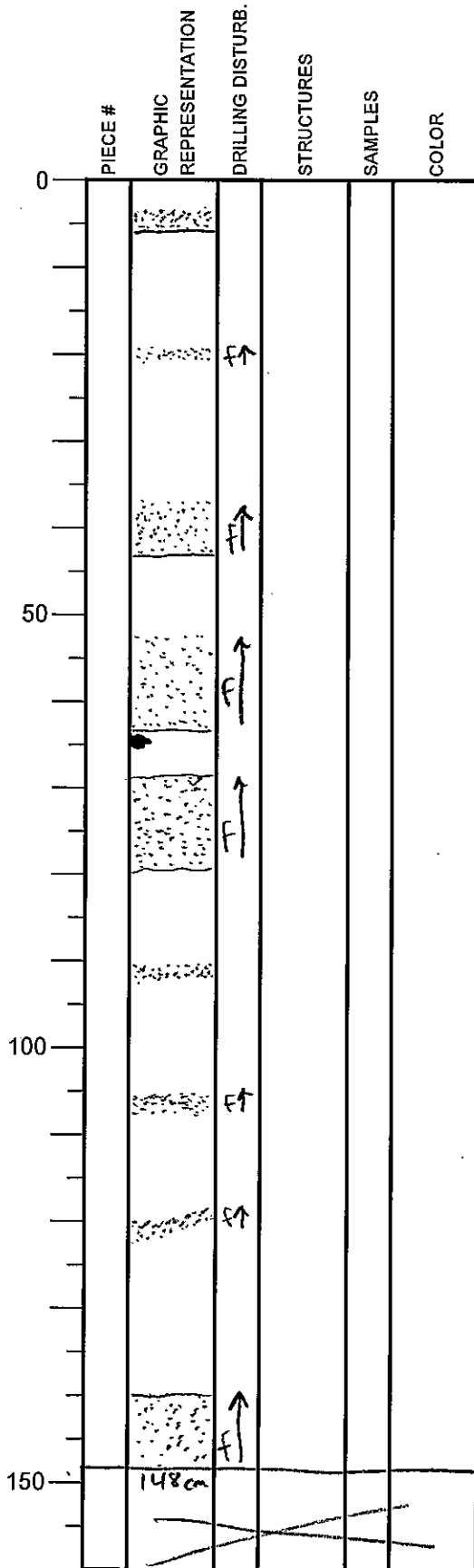
46-51cm : dispersed sand or ash

58-61cm Sand, Fining up, sharp base.

96-103cm Sand, Fining up

Integrated Ocean Drilling Program Visual Core Description

NO. 119
 DATE: 24 / 20 13
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 14
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: D. SAWYER.

4-6cm: Sand, fining up.

SILTY CLAY
INTERBEDDED w/ SAND

19-21cm: Sand, fining up.

38-43cm: Sand, Fining up.

52-63cm: Sand, fining up.

64: isolated indurated clast mud.

69-79cm: Sand, fining up.

91-93cm: ^{Fine} Sand

106-108cm: ^{Fine} Sand w/ Mica @ base. fining up.

121-123cm: dipping sand, fining up. mica @ base.

140-148cm: Sand, fining up.

Integrated Ocean Drilling Program

Visual Core Description

NO. 120
 DATE: 28/4/2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 14
 SECTION: 7
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						0-1cm sand
		VOID	↑			
		ASH	↑		SS	
50		53 cm				
100						
150						

SECTION DESCRIPTION

SILTY CLAY
INTERBEDDED w/ SAND + ASH

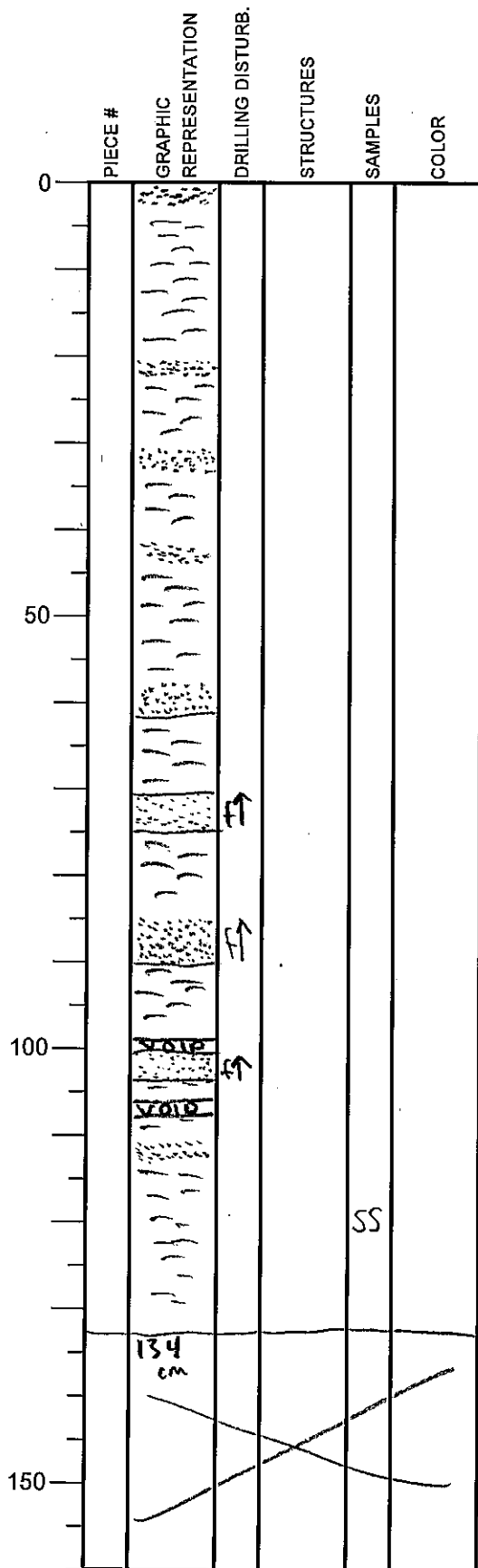
OBSERVER: D. SAWYER

21-25cm: Sand, fining up.

38-45cm: ASH, fining up. coarse ^{sand-size} particles
 42cm: smear slide.

Integrated Ocean Drilling Program Visual Core Description

No. 121
 DATE: 29/4/2013
 EXP.: 338
 SITE/HOLE: C0021 B
 CORE: 14
 SECTION: 8
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: D. SAWYER

0-2cm Sand. SILTY CLAY INTERBEDDED w/ SAND

21-23 cm: dispersed sand.

31-33cm: Sand, fining upward.

42-44: ASH

59-62cm: Sand, fining up. Sharp base.

71-75cm: sand, fining upward, Sharp base.

85-90cm: Sand, fining upward. Sharp base.

101-104cm: sand, fining up

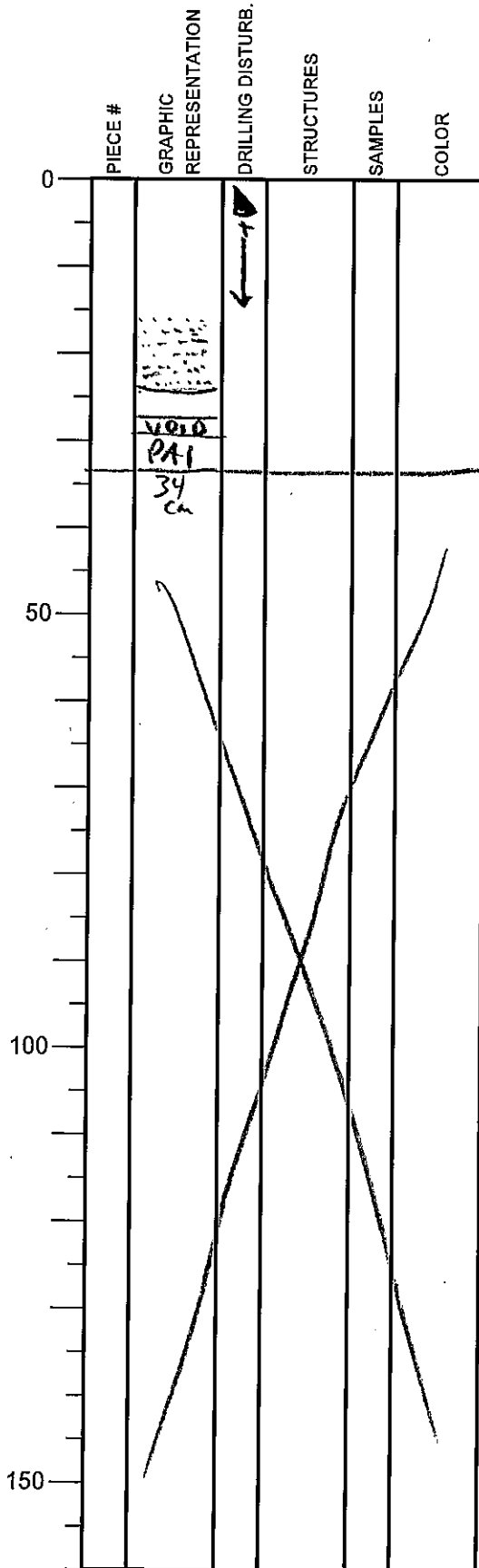
112-113cm: sand.

120cm: Smear slide.

Integrated Ocean Drilling Program

Visual Core Description

NO. 122
 DATE: 28 / 4 / 2013
 EXP.: 338
 SITE/HOLE: C0021B
 CORE: 14
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SILTY CLAY, interbedded w/ sand,

OBSERVER: D. SAWYER

16-25cm: sand, convex base, fine up