

Integrated Ocean Drilling Program

Visual Core Description

NO. **#1**
 DATE: 11/12/2016
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 00001H-01-AA
 SECTION: **1**
 TOP DEPTH (m CSF): 0

OBSERVER: T. ALVES

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		-		Gas voids		
50		SILTY CLY		Gas voids	* 4/1067	
100		[Dark smudge]				
150						

SECTION DESCRIPTION

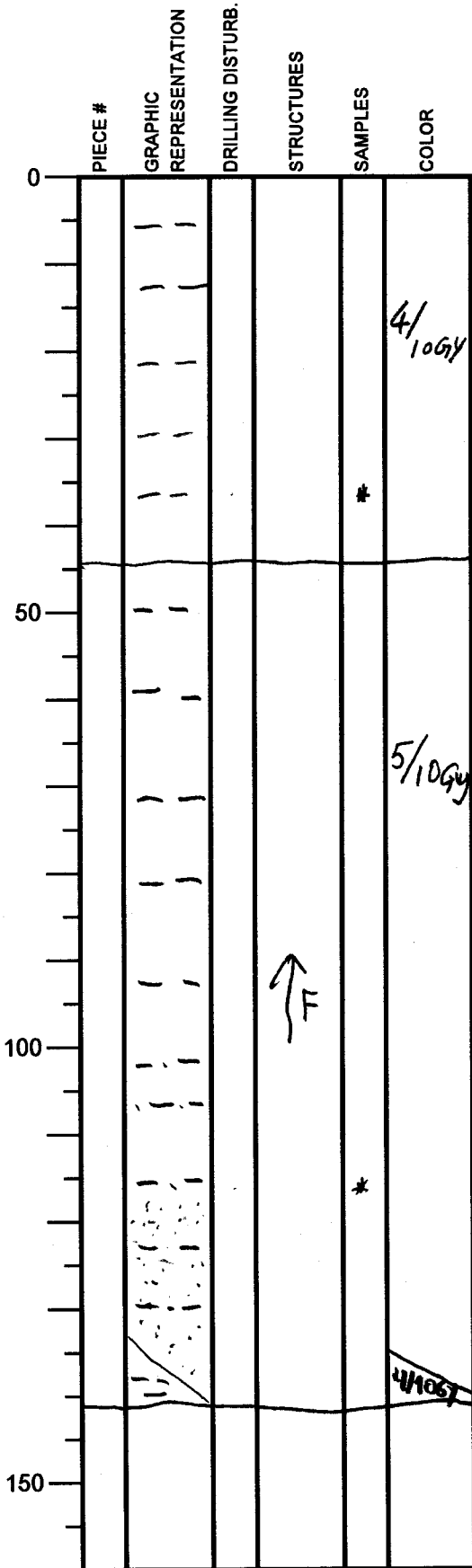
Silty clay with
 some sand/shell
 debris.
 Massive/homogeneous

* - 36 cm (Smear slide)

Integrated Ocean Drilling Program

Visual Core Description

SHEET NO. # **2**
 DATE: **14/12/2010**
 EXP.: **333**
 SITE/HOLE: **333-C0018A**
 CORE: **000 01H-03-AA**
 SECTION: **03-AA**
 TOP DEPTH (m CSF): **1.02m**



SECTION DESCRIPTION

OBSERVER: **S. Gao**

Silty-clay
 with wood fragments
 and shell debris.

Massive + homogeneous

35-36 cm

44.5 cm

Silty clay
 Sandy silt at
 the lower part, and
 silty clay at
 the top. The sand sized
 material is mainly shell fragments.

~~IRR~~

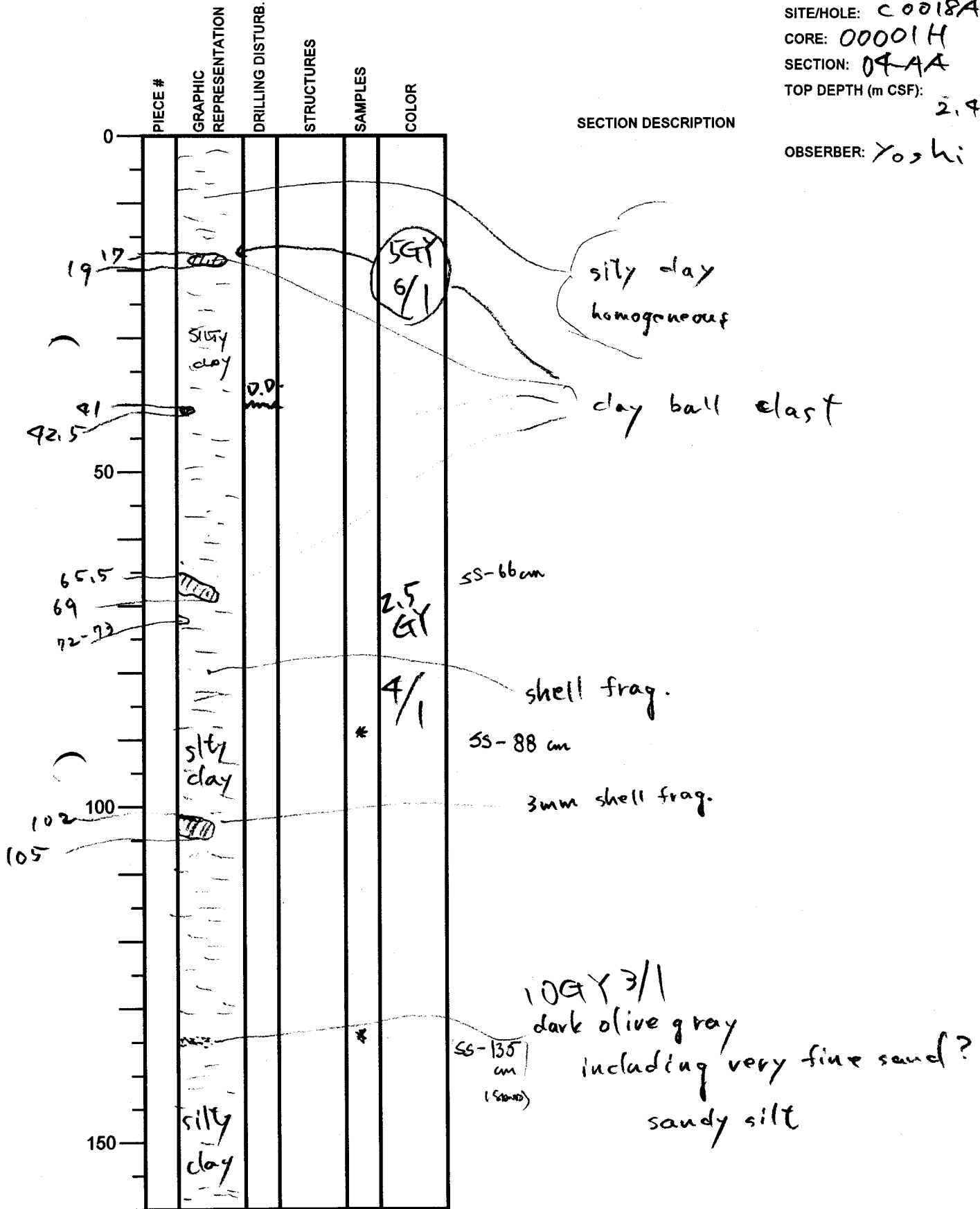
55 - 115.5

141 cm

Irregular, angular contact
 at the base. Below the contact
 is silty clay, color 4/10GY

Integrated Ocean Drilling Program Visual Core Description

NO. 3
 DATE: 12/21/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 00001H
 SECTION: 09AA
 TOP DEPTH (m CSF): 2.93 m
 OBSERVER: Yoshi



Integrated Ocean Drilling Program Visual Core Description

NO. #4
 DATE: 11/12/2010
 EXP.: 333
 SITE/HOLE: 333-COOL8A
 CORE: 14-05-AA
 SECTION: 5
 TOP DEPTH (m CSF): 3.84 m

OBSERVER: T. ALVES

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		SILTY CLAY		P	*	4/10GY
50		CLAY LENSE				5/10GY
67 m						
100						
150						

SECTION DESCRIPTION

SILTY CLAY, HOMOGENEOUS
 PLANT DEBRIS, 0.3 cm, AT 30 cm
 (SS-30 cm)
 CLAY LENSE, COLOUR 5/10GY.

Integrated Ocean Drilling Program

Visual Core Description

NO. 5
 DATE: 14/12/2010
 EXP.: 333
 SITE/HOLE: 333-0018A
 CORE: 1H-07AA
 SECTION: 7
 TOP DEPTH (m CSF): 4.50

OBSERVER: S. Gao

SECTION DESCRIPTION

silt clay, with
 hard mud clasts
 at around 30cm
 Homogeneous

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						
100					*	(SS - 112 cm)
150						

4/1064

Integrated Ocean Drilling Program

Visual Core Description

NO. 6
 DATE: 14/12/2010
 EXP.: 333
 SITE/HOLE: 333-C0018A
 CORE: 1H-CC-AA
 SECTION: C.C.
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						4/10GY
50						
100						
150						

SECTION DESCRIPTION

Silty clay;
 Homogeneous.

OBSERVER:

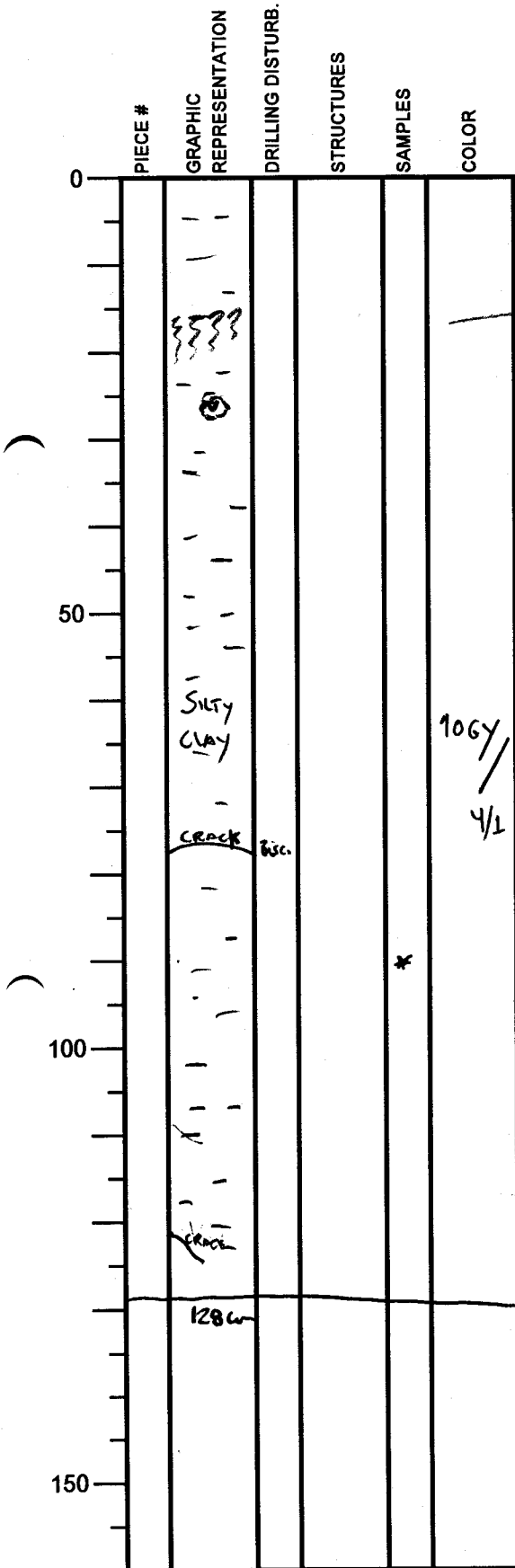
Integrated Ocean Drilling Program

Visual Core Description

NO. 7
 DATE: 11/17/2010
 EXP.: 333
 SITE/HOLE: 333-C0018A
 CORE: 00002H-01-AA
 SECTION: 01-AA
 TOP DEPTH (m CSF): 6660 m

SECTION DESCRIPTION

OBSERVER: T. ALVES



→ Dumped strata between 12cm - 27cm. water dredged.
 [Patch of volcanic sand pits, green (27 cm depth)] → 10G 5/1
 Homogeneous silty clay.
 Some sand-size shell debris, dispersed in the sediment.

10G 4/1

(SS = 90cm)

Integrated Ocean Drilling Program Visual Core Description

NO. 8
 DATE: 14/12/2010
 EXP.: 333
 SITE/HOLE: 333-C0018A
 CORE: 0002H-03-AA
 SECTION: 3
 TOP DEPTH (m CSF): 7.93

OBSERVER: S. Gao

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
50					
100				*	(SS = 98 cm)
150					

SECTION DESCRIPTION

Silty Clay, with
 "volcanic ash"
 occurring at 36.5
 98~99cm, a
 pebble at 75.2cm,
 and shell fragments
 at 29cm.

4/109Y

(SS = 98 cm)

Integrated Ocean Drilling Program Visual Core Description

NO. 10
 DATE: 4/12/2010
 EXP.: 333
 SITE/HOLE: 333-C0018A
 CORE: 0002H-05AA
 SECTION: 5
 TOP DEPTH (m CSF): 10.97

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		?				
50		??			*	4/10GY
100						
150						

SECTION DESCRIPTION

OBSERVER: S. Gao

Silty clay, with
 a pebble (7mm
 in diameter) and
 (55=38cm) volcanic ash at
 37-39 cm.

at 4-5cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 11
 DATE: 14/14/2010
 EXP.: 333
 SITE/HOLE: 333-0018A
 CORE: 002H-07AA
 SECTION: 7
 TOP DEPTH (m CSF): 11.73

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		??				
50		??				
100					*	
150					4/106Y	

SECTION DESCRIPTION

OBSERVER: S. Gao

Silty clay, with
 an angular pebble
 (4 mm in diameter)
 at 2.5 cm and
 volcanic ash at 13.5 cm,
 36-37 cm, and 128.5 cm

(SS = 89.5 cm)

Integrated Ocean Drilling Program

Visual Core Description

No. 12
 DATE: 11/12/2010
 EXP.: 333
 SITE/HOLE: 333-C0001BA
 CORE: C002H-08-AA
 SECTION: 8
 TOP DEPTH (m CSF): 13.150 m

OBSERVER: V. ALVES

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50		-				
100		-			1067/ 4/1	
150		-			*	
140.5 cm		-				

SECTION DESCRIPTION

Homogeneous, but laminated
 silty clay, with green/yellow
 patches / banding

(SS = 117 cm)
 Volcanic ash at 130 cm
 (patch)

Integrated Ocean Drilling Program Visual Core Description

NO. 13
 DATE: 11/12/2010
 EXP.: 333
 SITE/HOLE: 333 - Cood BA
 CORE: 00024 - 09 - AA
 SECTION: 9
 TOP DEPTH (m CSF): 14.555m

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
				*	106/ 4/1
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: T. ALVES

Silty clay w scattered
 sandy grains, mostly
 shell fragments.

(55 = 35cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 14
 DATE: 14/12/2006
 EXP.: 333
 SITE/HOLE: 333-CO⁹/18A
 CORE: COO 2H-11-AA
 SECTION: 11 27
 TOP DEPTH (m CSF): 15.34cm

OBSERVER: S. Gao

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
50	o o o 	 		log 4/1	
100	 	 		*	
150					

SECTION DESCRIPTION

silty clay, with
 shell fragments
 at 27, 36 and
 43.5cm.

(SS = 108 cm)

Integrated Ocean Drilling Program Visual Core Description

NO. 15
 DATE: 14/4/2010
 EXP.: 333
 SITE/HOLE: 333-00018A
 CORE: C0024-CC-AA
 SECTION: CC
 TOP DEPTH (m CSF): 16.467cm

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						4/10GY
100						
150						

SECTION DESCRIPTION

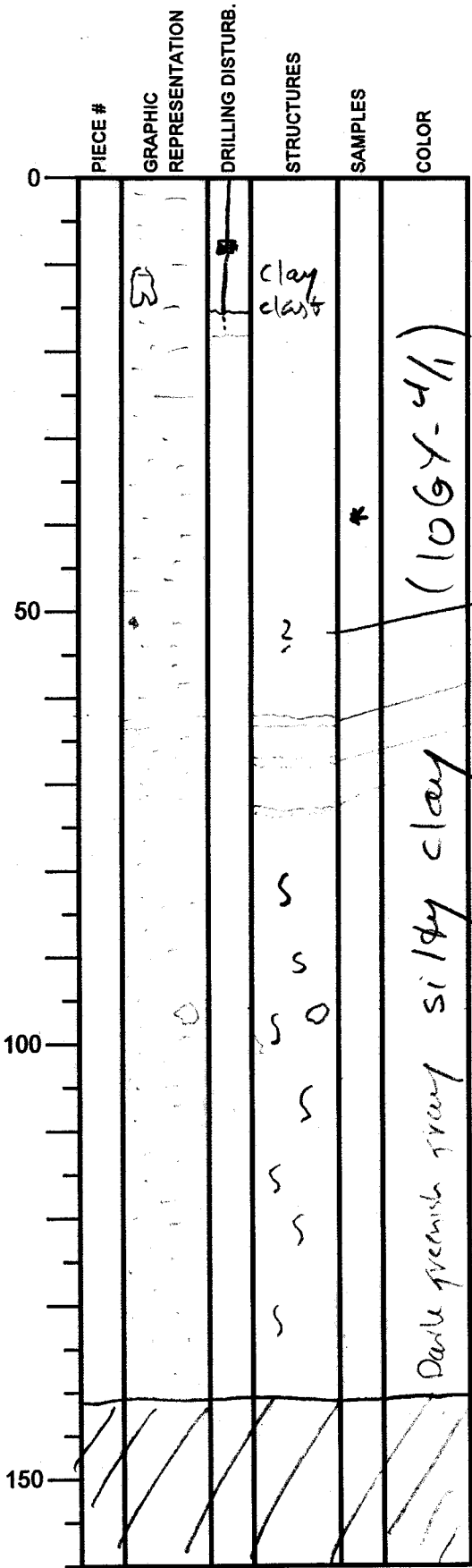
silty clay

OBSERVER: S. Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 16
 DATE: 11/2/2010
 EXP.: 333
 SITE/HOLE: 333
 CORE: 333-C00184
 SECTION: 000034-01-AA
 TOP DEPTH (m CSF): 16.15 cm



SECTION DESCRIPTION

OBSERVER: Jan L.

Drilling disturbance, moderate

(SS = 30 cm)

Outsized clast at 52 cm

Greenish gray layers (fauc) (10GY-5/1)

Slightly bioturbated in lower part

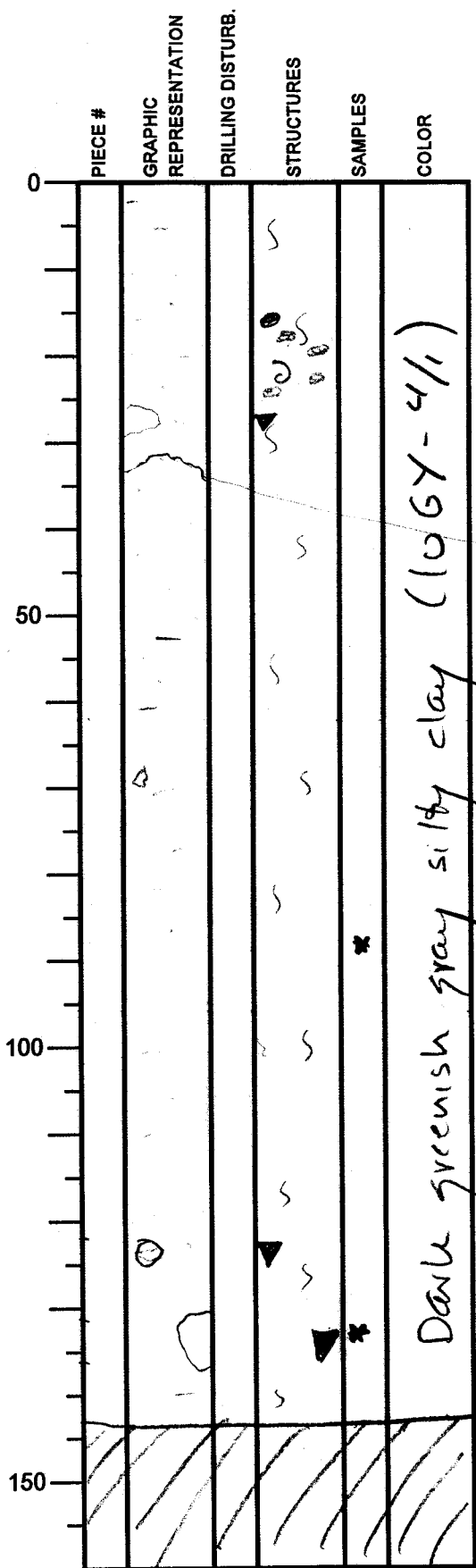
Patch of volcanic material at ~98 cm

Dark grayish green silty clay with some faint greenish gray layers, slight bioturbation in the lower part and a outsized clast. Upper 15-16 cm disturbed due to drilling.

EOC = 141 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 17
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 00003H
 SECTION: 02-AA
 TOP DEPTH (m CSF): 17.56



EOC = 141 cm

SECTION DESCRIPTION

OBSERVER: *Jal*

Slightly mottled throughout
 23 cm: fragment of shell / sponge spiculae

15-20 cm: Mottled

Slightly smoother core surface
 from this depth and downcore

Outsized clast at 70 cm

(SS = 89 cm)

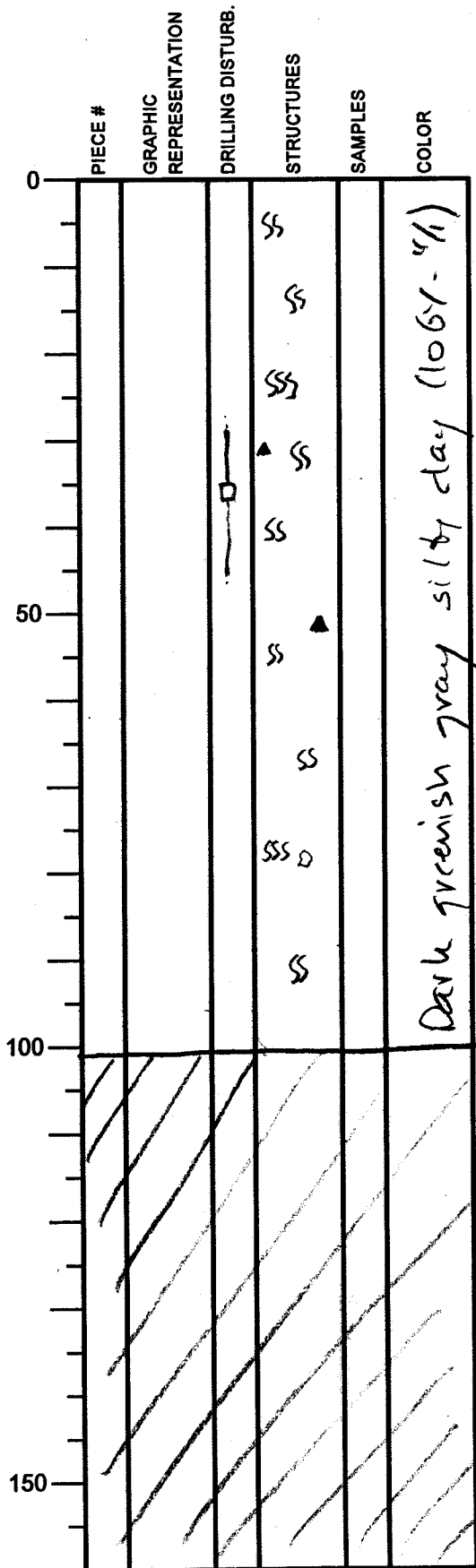
Clay clasts at 26-29 cm,
 (SS = 135) 122-125, 131-136 cm

Dark greenish gray silty clay,
 slightly mottled throughout,
 contains some mottling in the upper
 part, clay clasts in the upper
 and lower part

Integrated Ocean Drilling Program

Visual Core Description

NO. 18
 DATE: 5/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 00003H
 SECTION: 03-AA
 TOP DEPTH (m CSF): 18.995



SECTION DESCRIPTION

OBSERVER: Jan L.

Slightly to moderately bioturbated throughout

Outsized clast at 79cm

Dark greenish gray silty clay, slightly to moderately bioturbated throughout. Contains a few clay clasts.

EOC = 101 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 19
 DATE: 5/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 00003H
 SECTION: 01-AA
 TOP DEPTH (m CSF): 20.005

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				SS		6/1
				▲		10/11
				SS		5/1
			■	▲	*	
50				SS		Dark greenish gray silty clay
				SS		(10GY - 11/1)
				SS		
				SS		
100				SS		
				SS		
150				SS		

SECTION DESCRIPTION

OBSERVER: *J. C.*

Brownish
 clay
 (SS = 33 um)

Brown gray (upper 28cm) dark
 greenish gray silty clay,
 slightly bioturbated throughout
 contains a few clay clasts

EOC = 100 cm

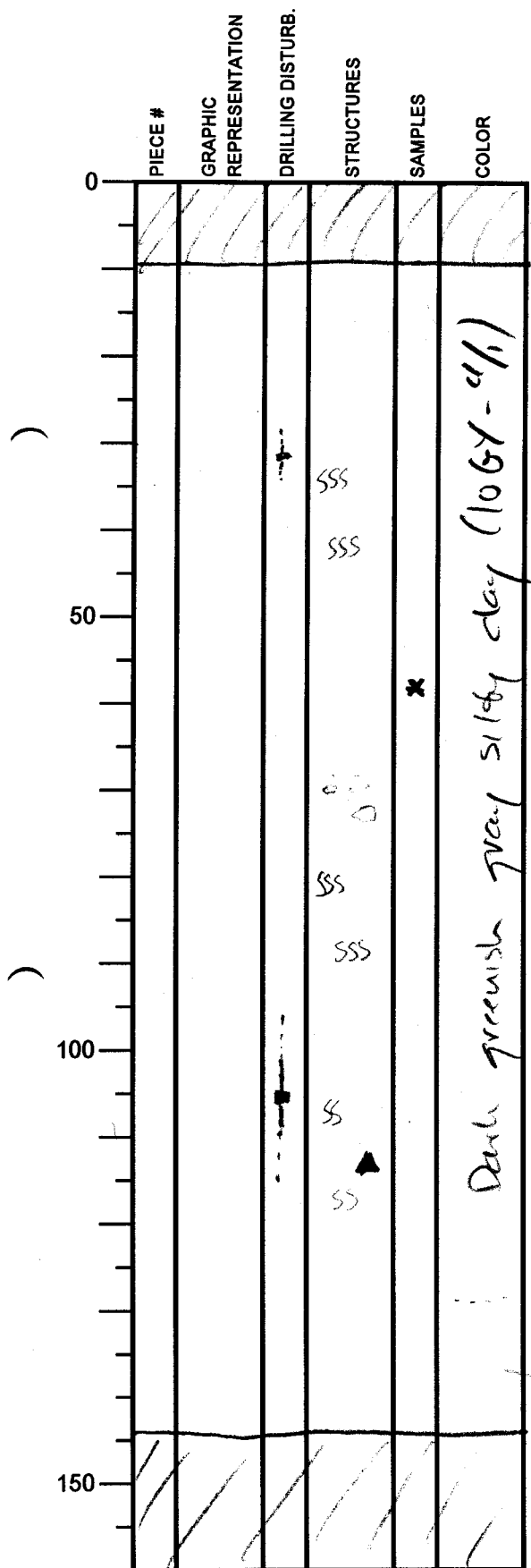
Integrated Ocean Drilling Program

Visual Core Description

NO. 20
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 00003H
 SECTION: 06-AA
 TOP DEPTH (m CSF): 21.24

SECTION DESCRIPTION

OBSERVER: J. L.



Dark greenish gray silty clay (10GY-4/1)
 brownish gray in the lower 12 cm (10YR-6/1)

Moderately bioturbated
 ~ 30-45 cm +
 ~ 75-90 cm

(SS: 57um)

Patches of volcanic material at
 ~ 80-92 cm

Slight bioturbation

Dark greenish gray silty clay,
 brownish gray in the lower most
 part, intervals of slight -
 moderate bioturbation and
 intervals comprising patches of
 volcanic material

EOC = 144.3 cm

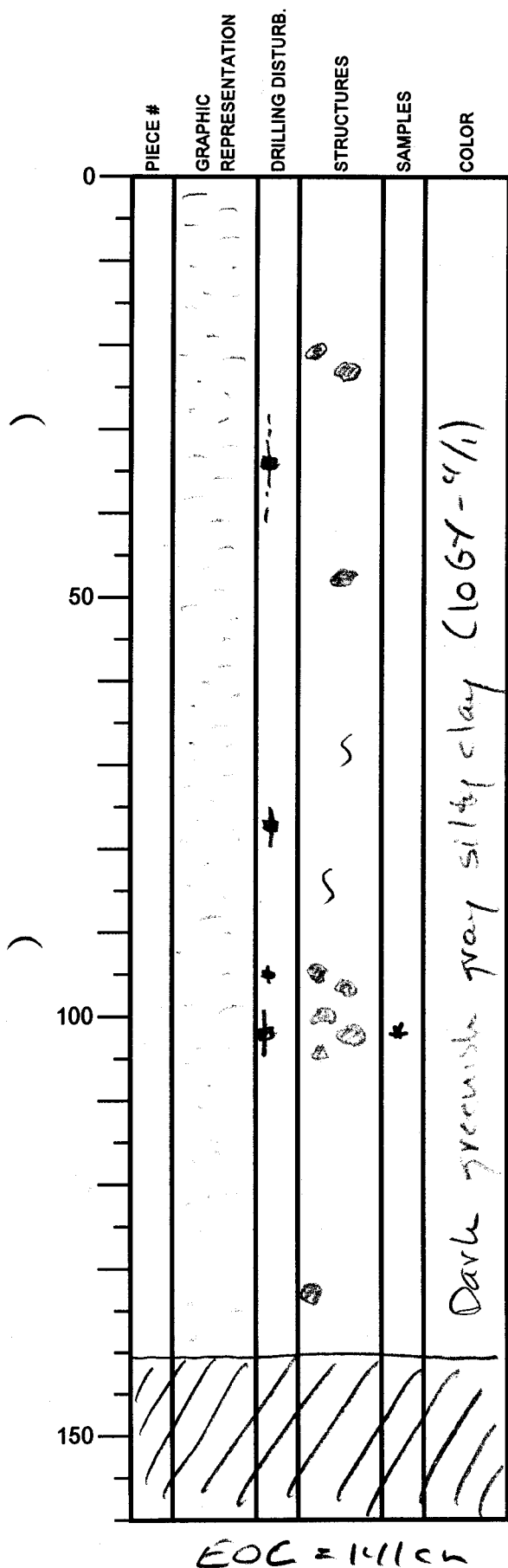
Integrated Ocean Drilling Program

Visual Core Description

No. 21
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 0003H
 SECTION: 07-AA
 TOP DEPTH (m CSF): 22.68 m

SECTION DESCRIPTION

OBSERVER: JAL



Color mottling: 20-21 cm

Slight bioturbation

Color mottling 94-107 cm
(SS = 102 um)

Dark greenish gray silty clay with some intervals of color mottling and slight bioturbation

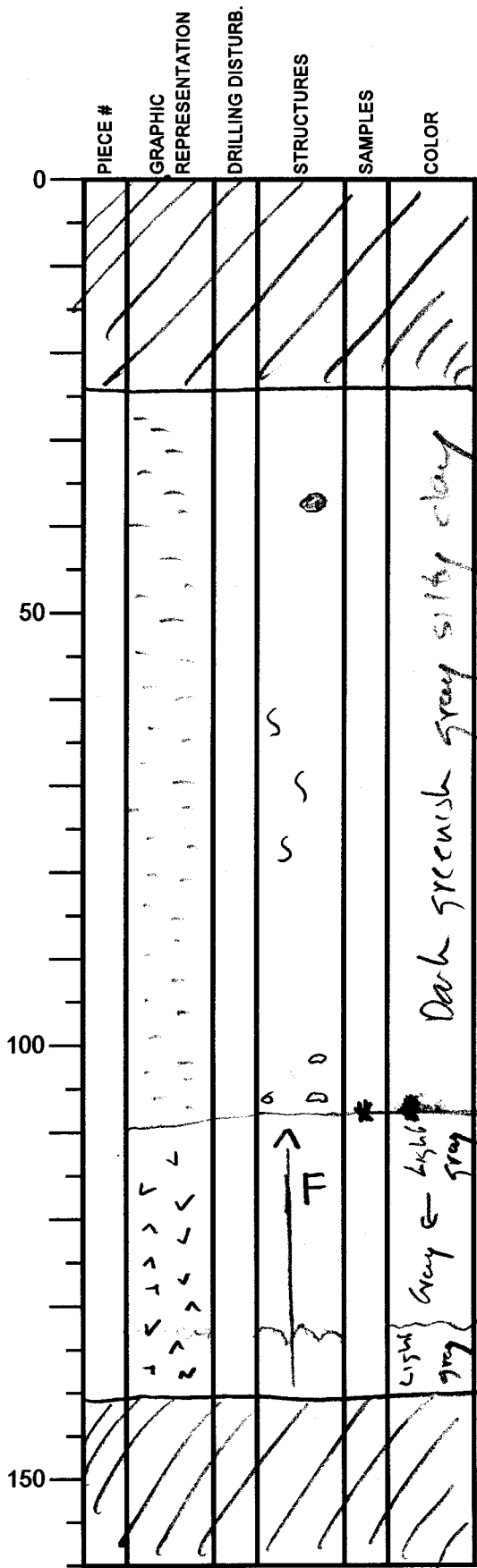
Integrated Ocean Drilling Program

Visual Core Description

NO. 22
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: C0012A
 CORE: 00003H
 SECTION: 08-AA
 TOP DEPTH (m CSF): 291.12

SECTION DESCRIPTION

OBSERVER: *J. L.*



Color mottling

Slight bioturbation
 ~ 60-80 cm

106Y-4/1

(SS = 108 um)

Patches of volcanic material

Thinning-upward light gray - gray ash layer

Sharp but irregular boundary

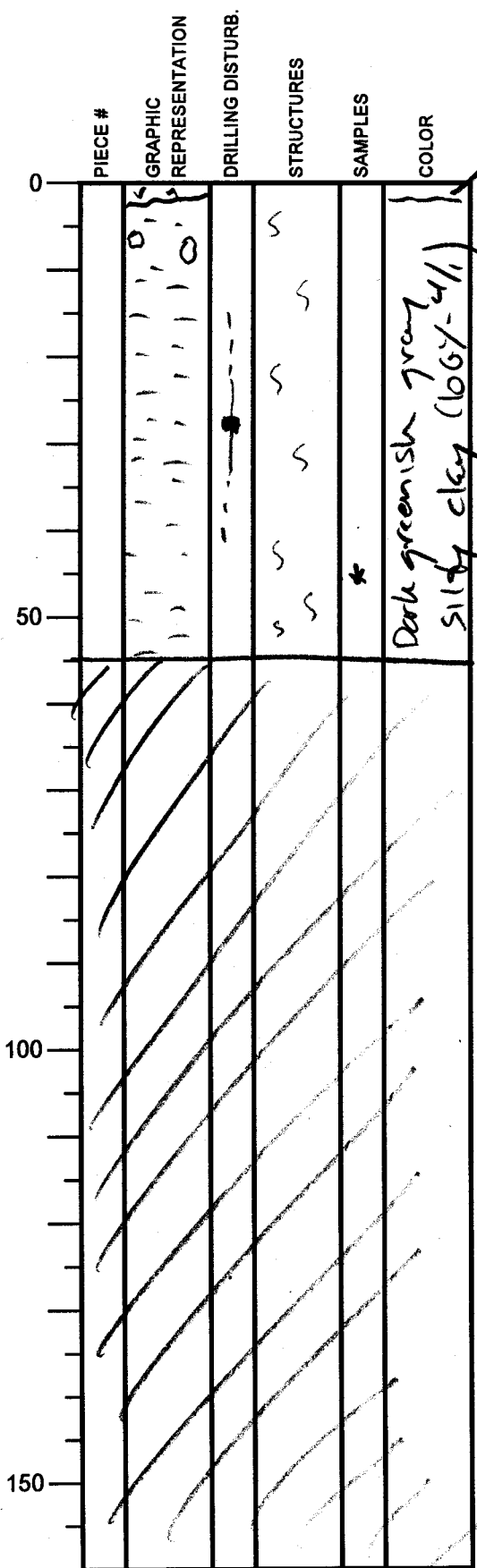
Dark greenish gray silty clay, slightly bioturbated overlying an upward thinning light gray - gray ash layer

EOC = 140.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 23
 DATE: 5/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 0000314
 SECTION: 09-AA
 TOP DEPTH (m CSF): 25.99m



same as above
SECTION DESCRIPTION

Sharp, irregular lower boundary of one ash layer
 clast of ash in the upper part of the underlying silty clay
 OBSERVER: JAL

Slight bioturbation throughout
 (SS = 44cm)

Lowermost part of ash layer above dark greenish gray silty clay, slightly bioturbated
 Some clast of ash in the upper part of the silty clay

EOC = 55 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 24
 DATE: 5/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 00003#
 SECTION: CC
 TOP DEPTH (m CSF): 26.05

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

SECTION DESCRIPTION

OBSERVER: *Jan L*

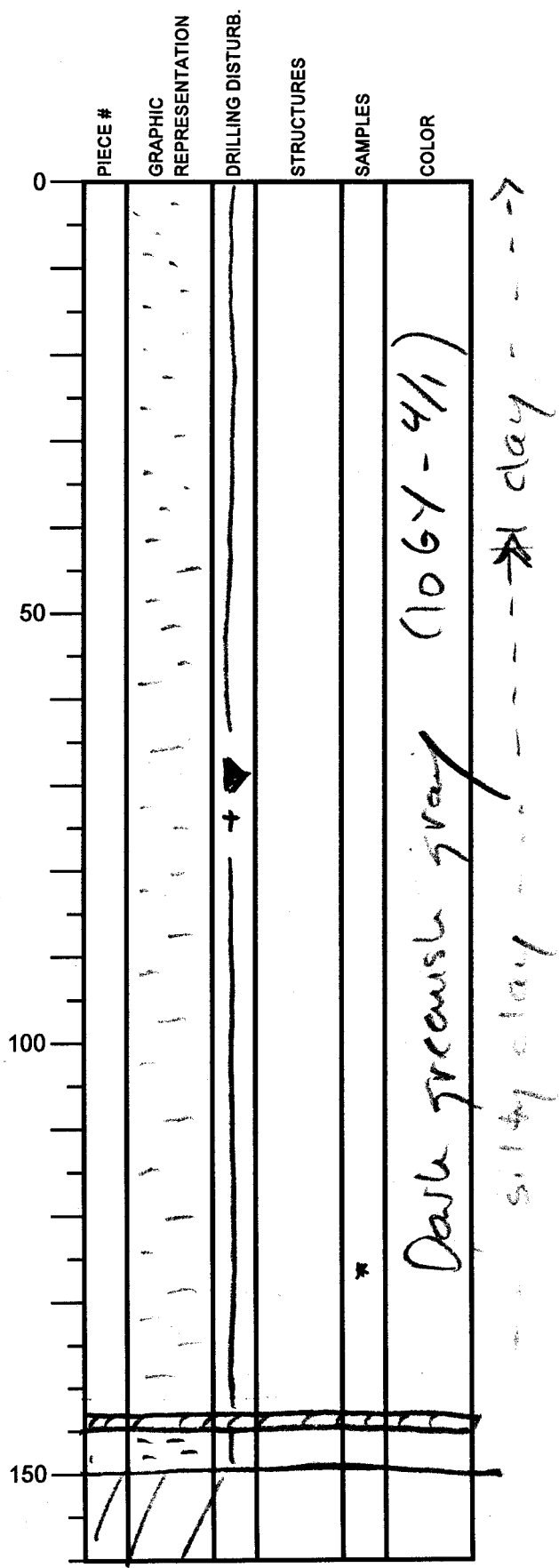
*Dark greenish gray
 silty clay
 heavily disturbed
 C.C. sample*

**Integrated Ocean Drilling Program
Visual Core Description**

NO. 25
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: C0012A
 CORE: 00004H
 SECTION: 01-AA
 TOP DEPTH (m CSF): 25.65m

SECTION DESCRIPTION

OBSERVER: Jan L.



Dark greenish gray silty clay overlain by clay with higher water content from 0 - 38 cm core depth. The whole section is heavily disturbed during sampling.

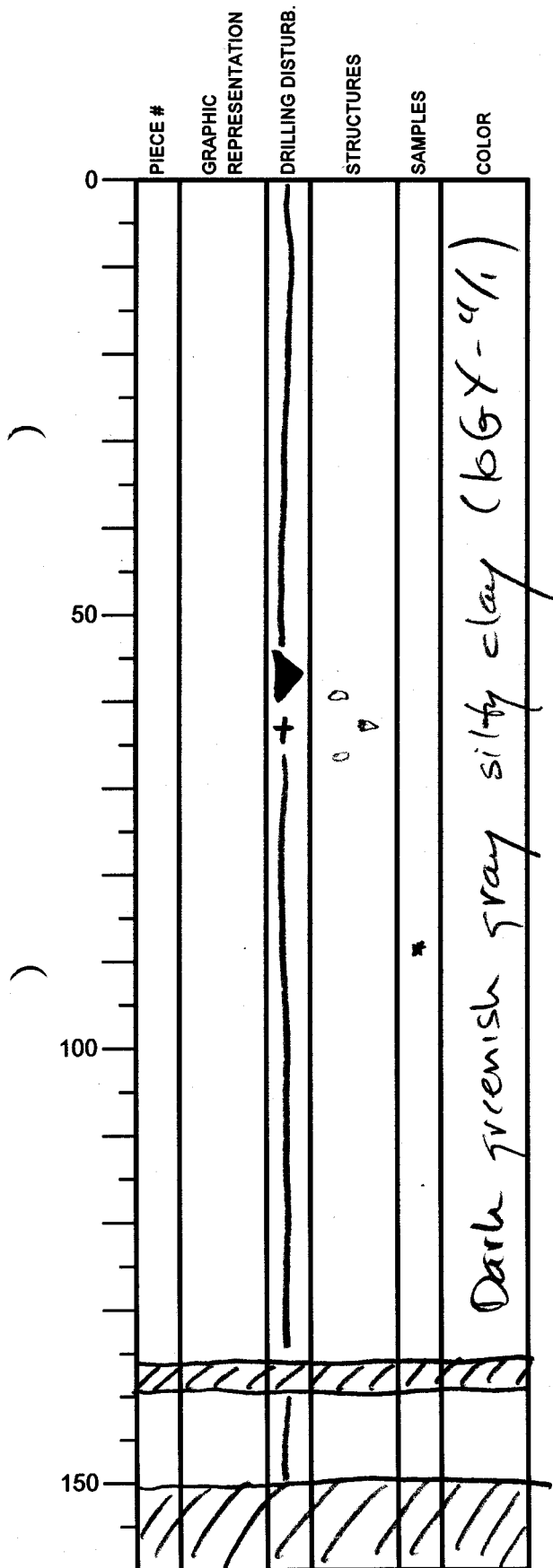
(SS = 124 cm)

EOC = 141.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 26
 DATE: 15/11/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 000041+
 SECTION: 02-AA
 TOP DEPTH (m CSF): 27.15



SECTION DESCRIPTION

OBSERVER: J. L.

Patches of volcanic material
59-67 cm

SS = 86cm

Dark greenish gray silty clay, the whole section is heavily disturbed due to sampling

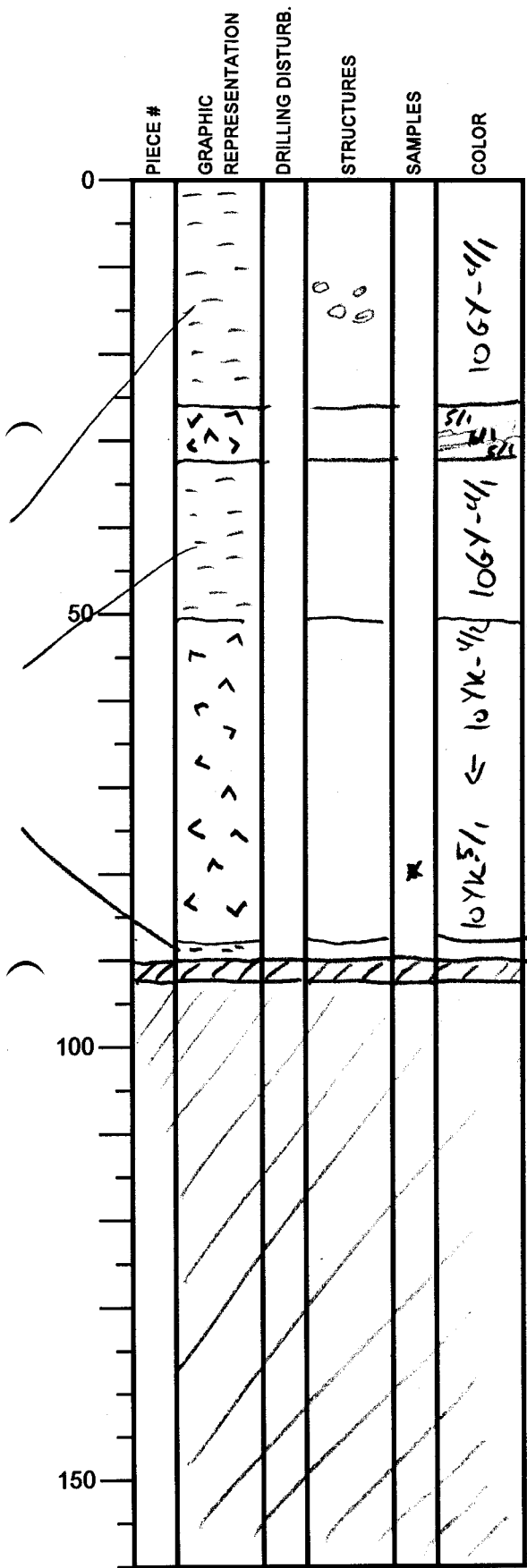
Integrated Ocean Drilling Program

Visual Core Description

NO. 27
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: C0012A
 CORE: 00004H
 SECTION: 03-AA
 TOP DEPTH (m CSF): 28.65

SECTION DESCRIPTION

OBSERVER: *Jr L*



Patches of volcanic material
 ~ 11-16 cm

7.5GY-5/1 → 6/1 Greenish gray ash

Color:
 106Y-4/1: Dark greenish gray

10YK-4/2: Grayish yellow brown ash

Ash

10YK-5/1: Brownish gray ash
 (SS=77 m)

EOC = 92 cm depth

Integrated Ocean Drilling Program

Visual Core Description

NO. 28
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 00004H
 SECTION: 05-AA
 TOP DEPTH (m CSF): 29.78 m

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						
100					*	(SS = 105 cm)
150						

SECTION DESCRIPTION

Silty clay
 Homogeneous

5/7.5G

OBSERVER: S. G20

Integrated Ocean Drilling Program

Visual Core Description

NO. 29
 DATE: 15/2/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 0004H
 SECTION: 06-AA
 TOP DEPTH (m CSF): 31.25 m

SECTION DESCRIPTION

OBSERVER: S. Gao

Silty clay, with
 volcanic ash
 occurring at 53,
 61.5, 68, 72
 and 119 cm.

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

5/
7.5G1

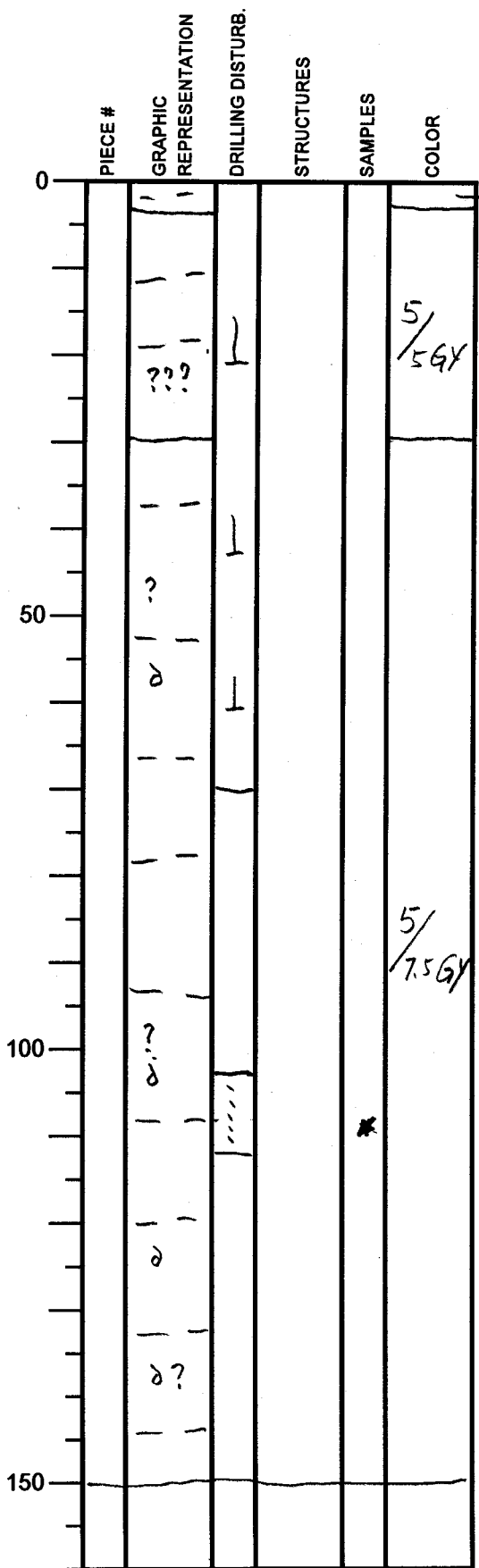
(SS = 97 cm)

Integrated Ocean Drilling Program Visual Core Description

NO. 30
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: C0012A
 CORE: 00004H
 SECTION: 07-AA
 TOP DEPTH (m CSF): 32.78 m

SECTION DESCRIPTION

OBSERVER: S. Gao



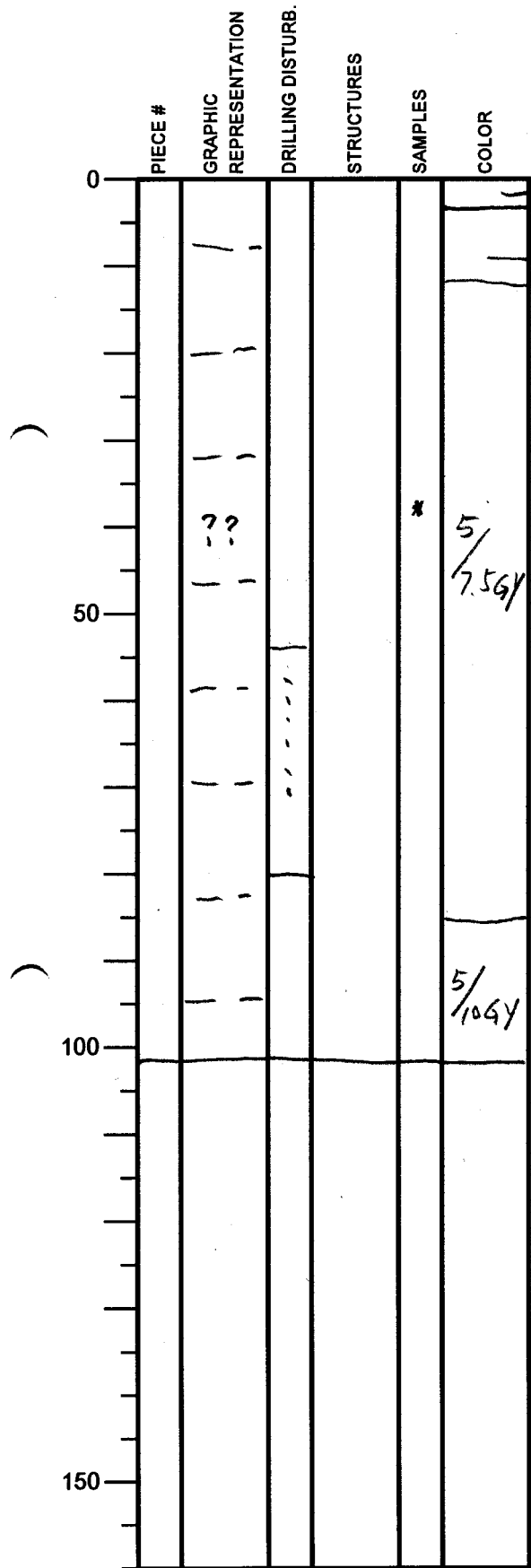
Silty clay, with
 volcanic ash (light-colored)
 at 21.5 ~ 23.5 cm
 and shell fragments
 at 68, 105, 125 and
 137 cm; dark colored
 volcanic ash at 47,
 98 and 125 cm.

(SS = 105 cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 31
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 00004H
 SECTION: 08-AA
 TOP DEPTH (m CSF): 34.28m



SECTION DESCRIPTION

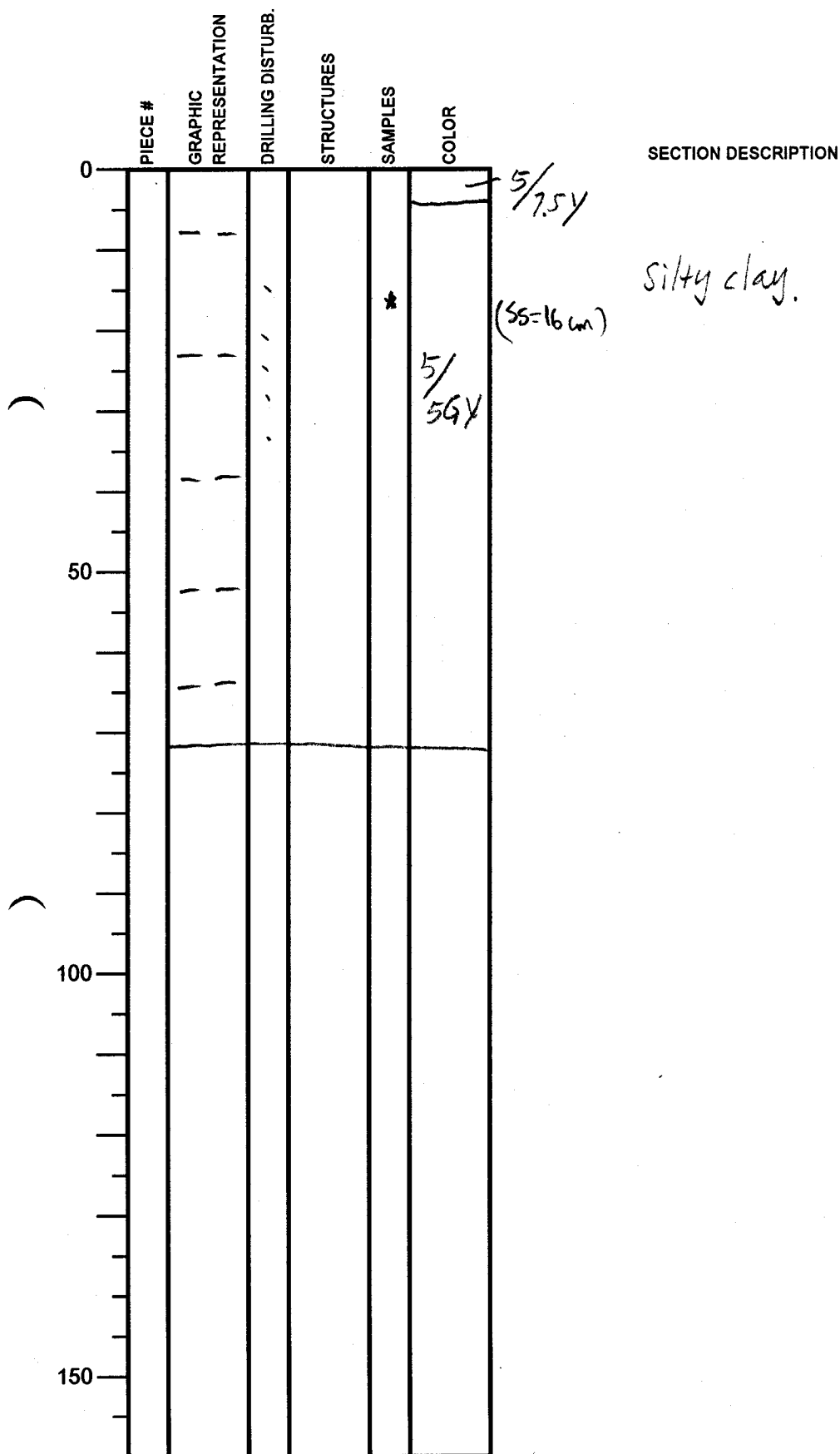
OBSERVER: S. Gao

Silty clay, with
 a volcanic ash
 layer at 38.5-
 41 cm. Slightly
 disturbed during
 drilling for the
 54 m 82 cm section.

Integrated Ocean Drilling Program

Visual Core Description

NO. 32
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 00004H
 SECTION: CC-AA
 TOP DEPTH (m CSF): 35.28 m



OBSERVER: S. Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 33
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: 333-018A
 CORE: SH-01-AA
 SECTION: 01
 TOP DEPTH (m CSF): 36.16 m

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						10Y 4/1
100					*	10Y 4/1
150						

SECTION DESCRIPTION

OBSERVER: T. AWES

*Silty clay. more
 clay than in previous
 sections no sandy
 material. Homogeneous*

(SS = 100 cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 34
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: 333-C0018A
 CORE: 5H
 SECTION: 02-AA
 TOP DEPTH (m CSF):

OBSERVER: S. Gao

SECTION DESCRIPTION

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
				*	4/10g
50					5/10g
100					
150					

19.5 - 42.0 cm
 Silty clay, interlayered with volcanic ash; the ash layers are thicker in the bottom than in the upper part

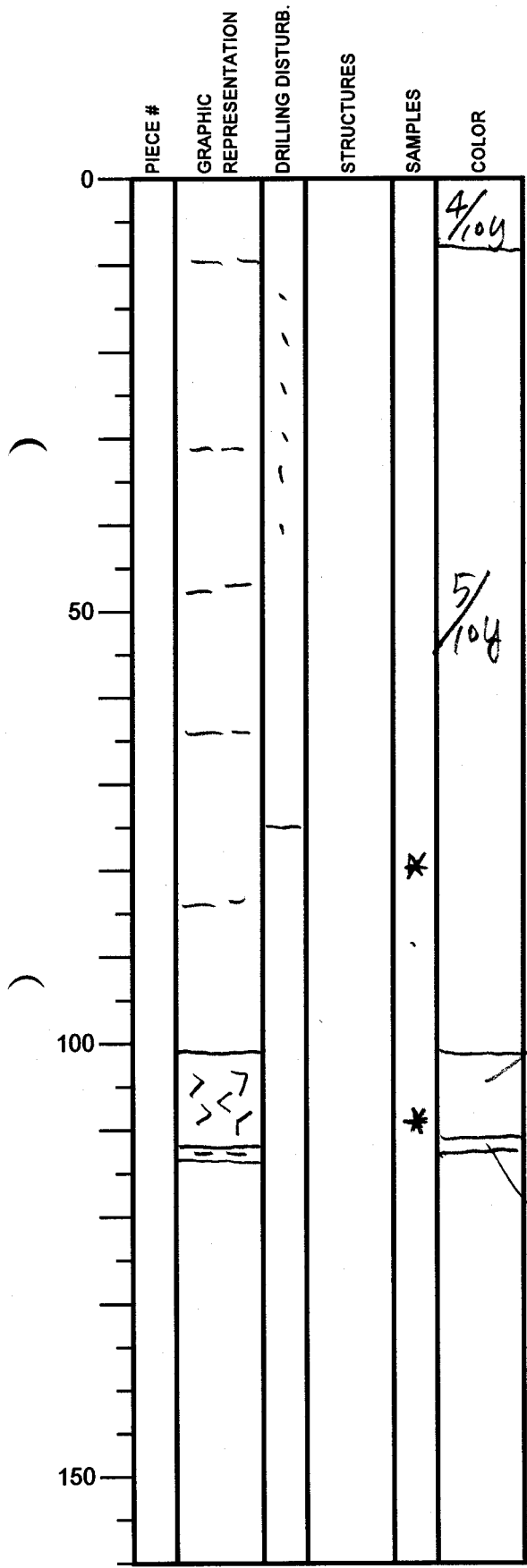
← SS (33.5cm)

silty clay, apparently layered.

Integrated Ocean Drilling Program

Visual Core Description

NO. 35
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: 333-C0010A
 CORE: 5H
 SECTION: Q3-AA
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

Silty Clay.

40-102 cm,
Silty clay.

SS (78.5 cm)

3/7.54
102-112 cm, volcanic ash layer.

SS (108.5 cm)

5/104

OBSERVER: S. Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 36
 DATE: 15/14/2010
 EXP.: 333
 SITE/HOLE: 333-0018A
 CORE: 5H
 SECTION: 05-AA
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						5/ 7.5y
25		>><<			* 4/ 7.5y	
50			- - -			
75						
100						5/ 10y
125						
150					k	

SECTION DESCRIPTION

OBSERVER: S. Gao

silty clay.

- SS (29.5cm) volcanic ash,

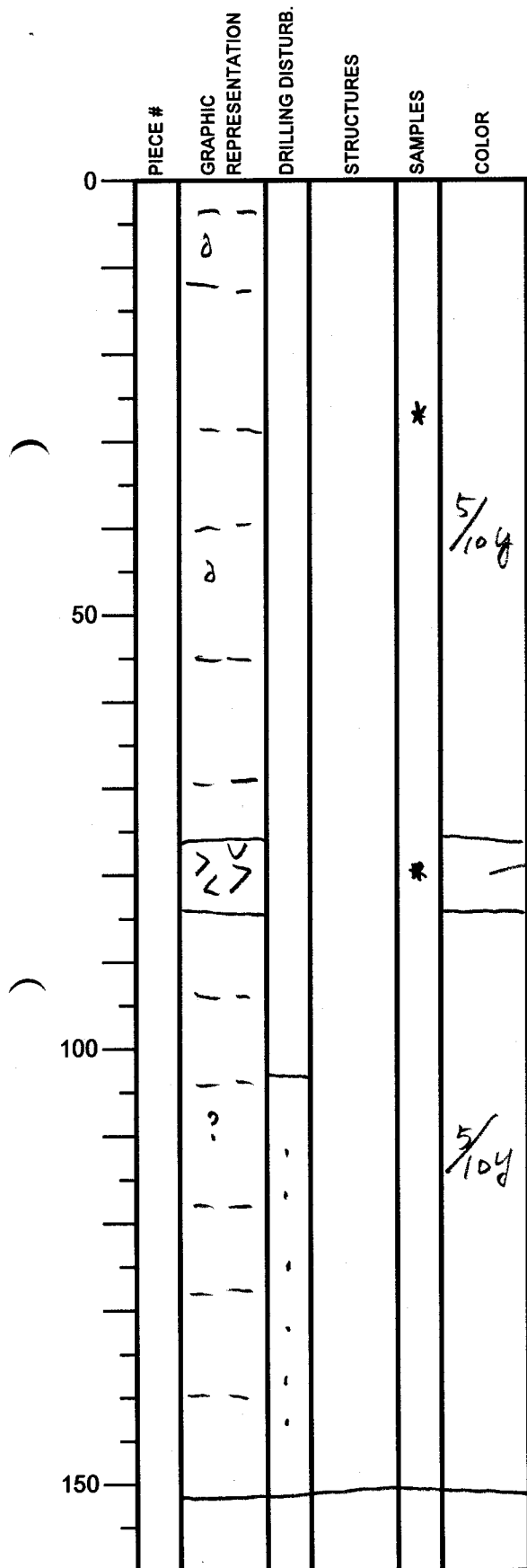
34 - 139.5 cm,
silty clay.

- SS (131cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 37
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: 333-CO018A
 CORE: 5H
 SECTION: 06-AA
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: S. Gao

Silty clay, with shell fragments at 9 and 45 cm

(SS = 27cm)

(SS = 82cm)

7/7.5g Pumice?

Silty clay, with volcanic ash at 109 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 38
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: 333-C0018A
 CORE: 5H
 SECTION: 07-AA
 TOP DEPTH (m CSF):

OBSERVER: S. Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
						5/108
						5/58
50						
					*	5/58
100						
150						

SECTION DESCRIPTION

Silty clay

Silty clay, with 'pumice' clasts.

(SS=63cm)
 Silty clay, with volcanic ash clasts at 60-63, 74-76, 108 and 110.5-112 cm, and pumice materials being present at 67-74 and 76-80 cm.

Integrated Ocean Drilling Program

Visual Core Description

NO. 39
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: 333-C0018A
 CORE: 5H
 SECTION: 08-AA
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: S. Gao

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					5/ 7.5g
50	 ? ? ? ? ? ? ? ?				5/ 7.5g
100	 X			*	
150					

0-50cm, silty clay with patches of different colors (distorted bed) ranging between 4~6 (7.5g-10g); a pumice clast at 30-32cm.

silty clay, with volcanic ash at 56, 61, 67, 75, 84 cm, and pumice particles at 101-104 cm. The sediment is layered.

SS = 116cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 40
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: 333-C0018A
 CORE: 5H
 SECTION: CC-AA.
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
	??				4/10g
	X				5/10g
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: S. Gao

silty clay, with brown layers at 11 and 13 cm, and a light-color layer at 14 cm.

Integrated Ocean Drilling Program Visual Core Description

NO. 42
 DATE: 5/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: CH-01-AA
 SECTION: 1
 TOP DEPTH (m CSF): 44.9m

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		X	disturbed			
10						106/4/1
20						
30						
40						
50						
60						
70						
80						
90						
100						
110						
120						
130						
140						
150						

SECTION DESCRIPTION

OBSERVER: T. ALVES

Silty clay,
 some dark green bands

(SS = 54 cm)

Banding (dark to light green/grey)

141 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 42
 DATE: 15 / 12 / 2010
 EXP.: 333
 SITE/HOLE: COO1BA
 CORE: 6H-02-AA
 SECTION: 2
 TOP DEPTH (m CSF): 46.6 m

OBSERVER: T. ALVES

SECTION DESCRIPTION

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
50			Banding	*	
100				106y 4/2	
150	141 cm				

Silty clay, banded

(SS = 60 cm)

Banding, angular

Integrated Ocean Drilling Program

Visual Core Description

NO. 43
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 6H-03-AA
 SECTION: 3
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: 47.46 m

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					106Y 4/1
	(Hand-drawn wavy lines representing bedding)			* 106Y 6/1	
50				* 106Y 4/1	
100					
150	109 cm				

Volcaniclastic sand, banded, Two beds -
Sharp base Gradual top. Normal grading.
 (fining upwards)
 SS = 23 cm
 SS = 32 cm } Bottom of
 Turbidite events.

Silty clay

Integrated Ocean Drilling Program

Visual Core Description

NO. 44
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: 6008A
 CORE: 6H-05-A
 SECTION: 5
 TOP DEPTH (m CSF): 48.87m

SECTION DESCRIPTION

OBSERVER:

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

Silty mud Banded on Top

log
4/2 (SS = 60 cm)

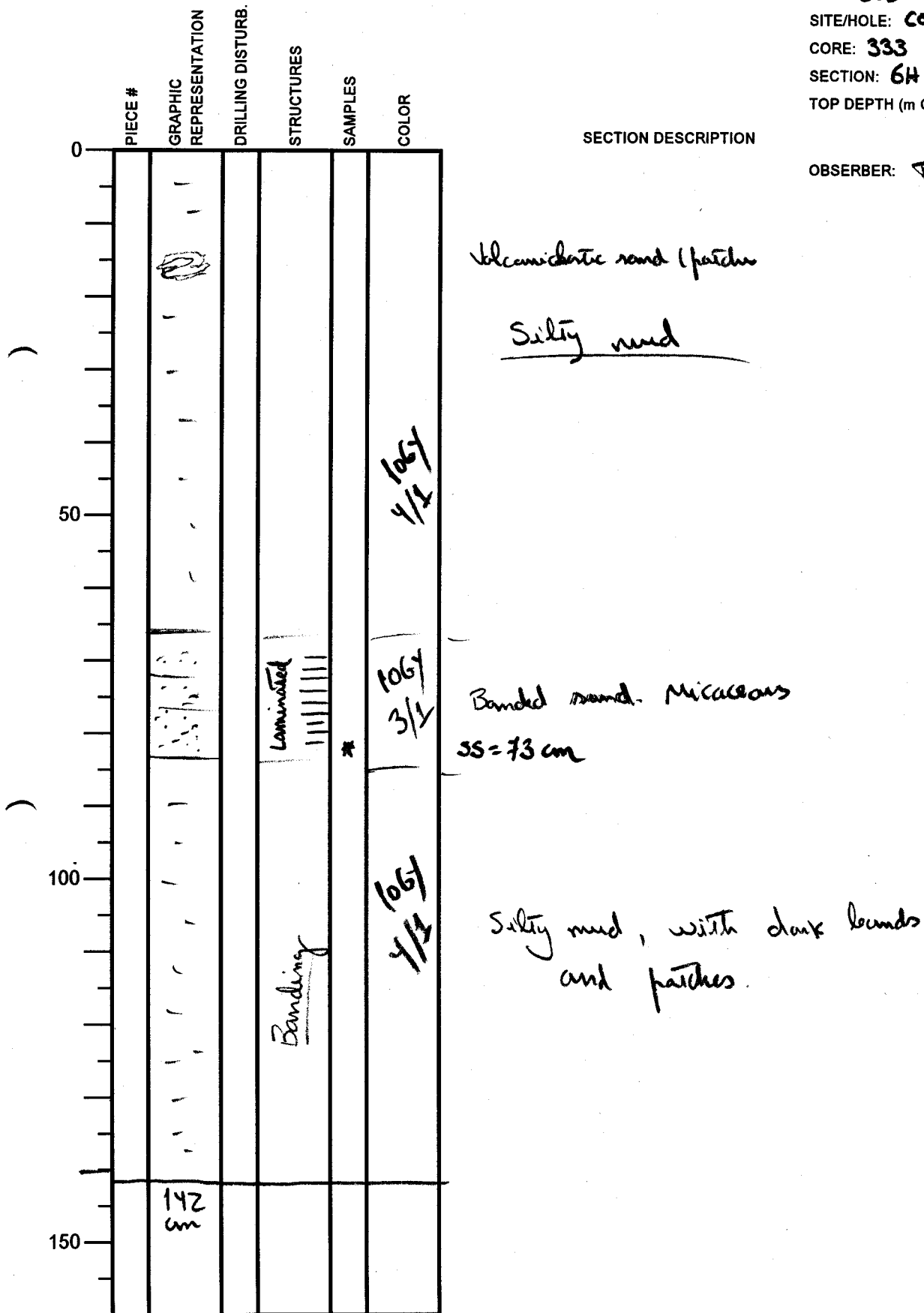
116 m

Integrated Ocean Drilling Program

Visual Core Description

NO. 45
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: COO16A
 CORE: 333
 SECTION: 6H-06-AA
 TOP DEPTH (m CSF): 50.27m

OBSERVER: J. shes



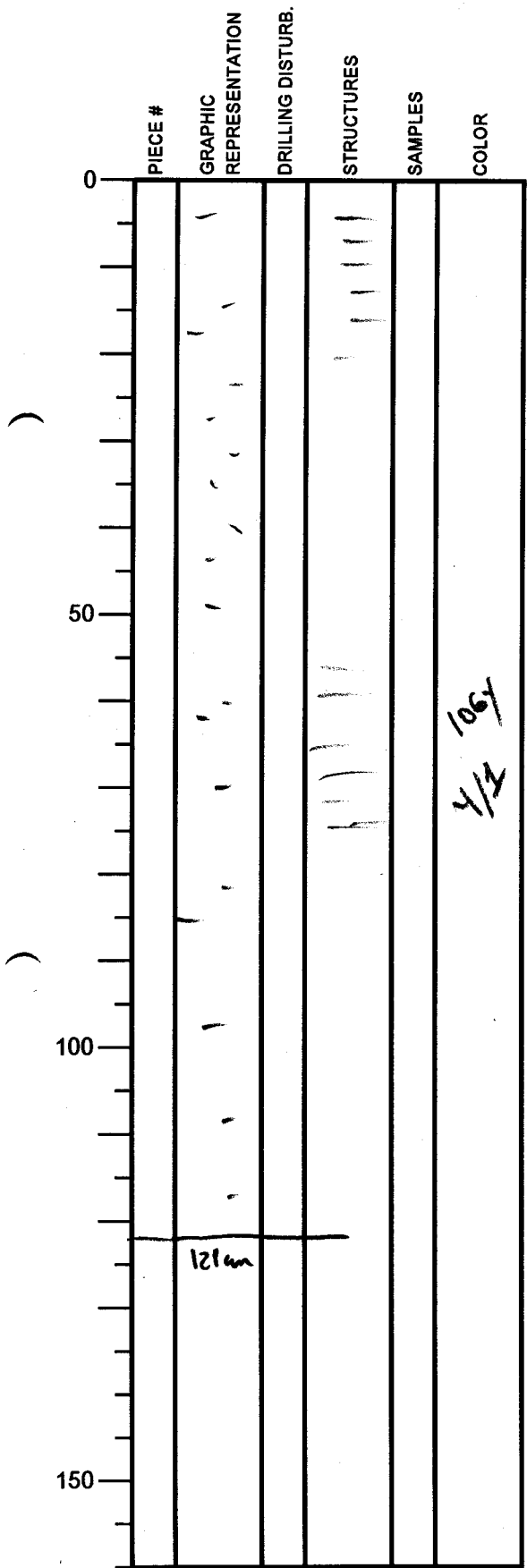
Integrated Ocean Drilling Program

Visual Core Description

NO. 46
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 6N-07AA
 SECTION: 7
 TOP DEPTH (m CSF): 51.7 m

SECTION DESCRIPTION

OBSERVER: T. MUES



Silty mud, with some
 dark patches and banding.
 Parallel banding

106y
 4/2

Integrated Ocean Drilling Program Visual Core Description

NO. 47
 DATE: 15/12/2010
 EXP.: 333
 SITE/HOLE: Cool8A
 CORE: 6A-08-AA
 SECTION: 8
 TOP DEPTH (m CSF): 53.11 m

SECTION DESCRIPTION

OBSERVER: T. ALVES

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50					1067 412	
100					*	(SS = 76 cm)
150						

Silty clay, some lamination

Integrated Ocean Drilling Program

Visual Core Description

NO. 48
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: CH-03-AA
 SECTION: 3
 TOP DEPTH (m CSF): 54.12 m

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		-				1067 4/1
		-				1077/2
		-			*	787 18/1
		-				1067 4/1
50		-				
		-				
		-				
		-				
100		-				
		-				
		-				
150		-				

SECTION DESCRIPTION

OBSERVER: J. AUES

Sand - Parallel
 laminated - Possibly volcanoclastic.
 SS = 17 cm (base of sand)

Integrated Ocean Drilling Program Visual Core Description

NO. 49
DATE: 12/12/2010
EXP.: 333
SITE/HOLE: COOLBA
CORE: GH-CC-AA
SECTION: CC
TOP DEPTH (m CSF): 54.72 m

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

SECTION DESCRIPTION

OBSERVER: *T. Jones*

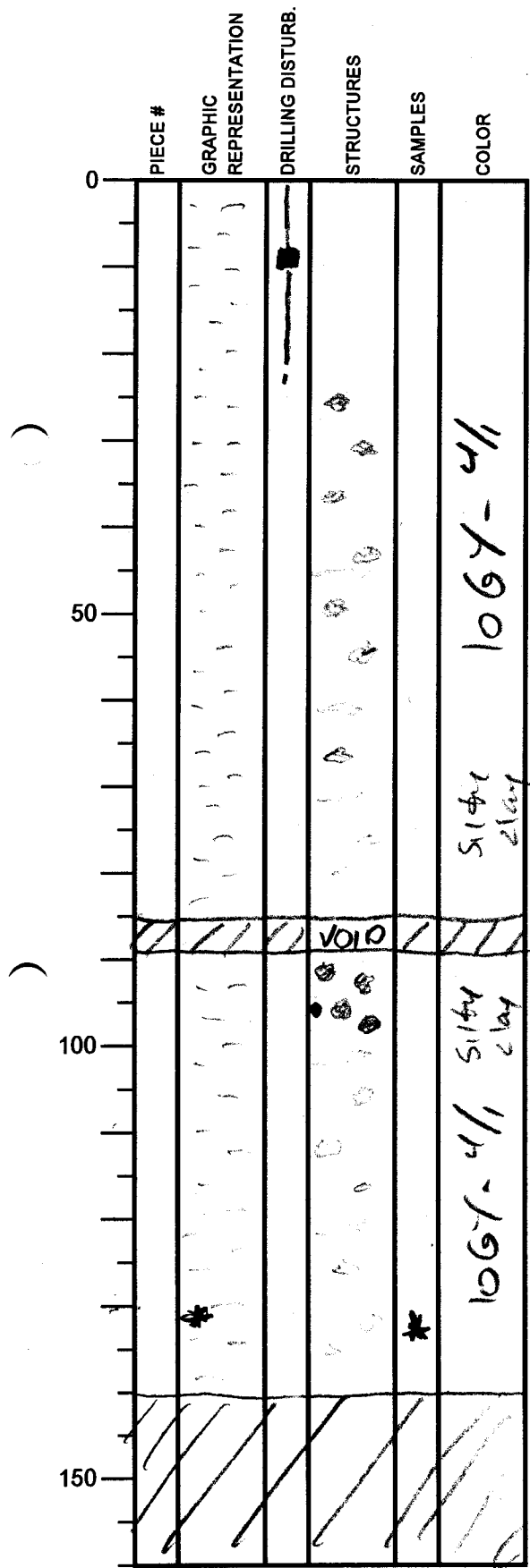
*Sandy mud. Pebble
at 41 cm*

*106y
4/2*

Pebble

Integrated Ocean Drilling Program
Visual Core Description

NO. 50
 DATE: 6/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 7H-01-AA
 SECTION: 01
 TOP DEPTH (m CSF): 59.15
 (CSF-A)
 OBSERVER: J.L.



SECTION DESCRIPTION

Color mottling; patches and thin layers, sometimes horizontal across the core, sometimes more irregular and discontinuous
 => bioturbation structures

Volcanic sand 1m above and below the void
 Patches of volcanic material
 oversized clast at ~107 cm
 Color mottling as above;
 Bioturbation

* Smear slide at 131 cm

Dark greenish gray (silty) clay, moderately bioturbated throughout, top ~ 21 cm disturbed by drilling

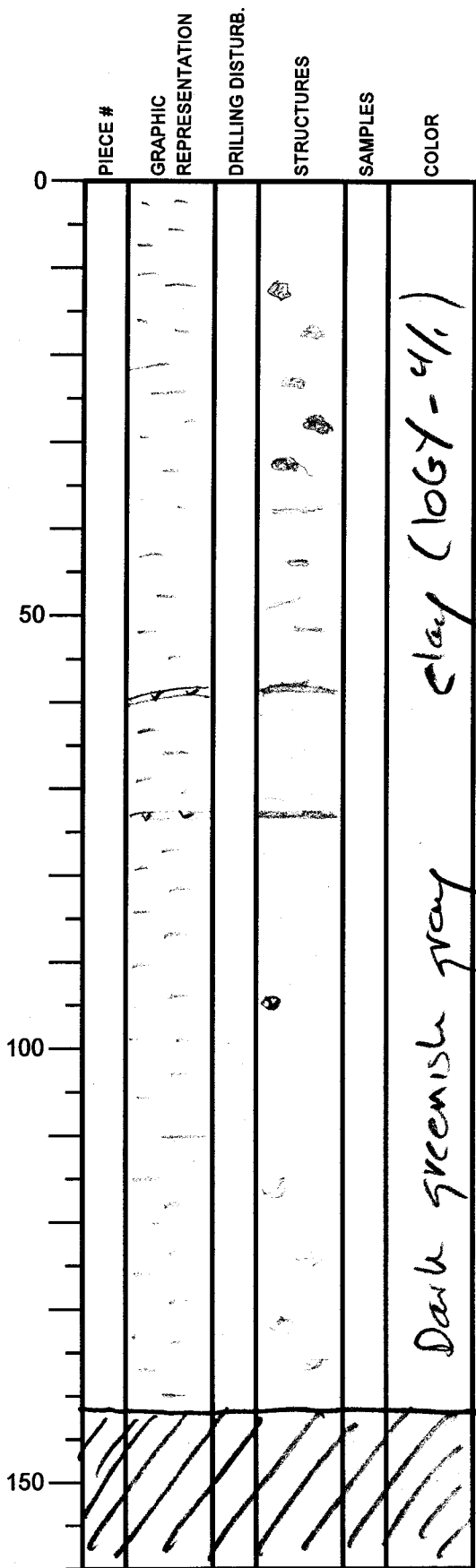
EOC = 146 cm

Integrated Ocean Drilling Program
Visual Core Description

NO. **51**
 DATE: **16/12/2010**
 EXP.: **333**
 SITE/HOLE: **C0018A**
 CORE: **7H**
 SECTION: **02-AA**
 TOP DEPTH (m CSF):
5555 (CSF-A)

OBSERVER: **J.L.**

SECTION DESCRIPTION



EOC = 141.5 cm

Color mottling throughout; patches and thin layers, some times horizontal and continuous across the core, sometimes more irregular and discontinuous

⇒ Bioturbation

Two 2-3 cm thick ash layers at 38 and 73 cm

Oversized clast at 95 cm

Dark greenish gray clay, moderately bioturbated throughout. Two thin ash layers, at 38 and 73 cm, irregularly

Integrated Ocean Drilling Program
Visual Core Description

NO. 52
 DATE: 6/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 7H
 SECTION: 03-AA
 TOP DEPTH (m CSF): 56.97 (CSF-a)
 OBSERVER: JAL

Asked for
 photographs to show
 all the
 details

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
					10GY-1/1
50					
100					
150					

SECTION DESCRIPTION

color mottling

grayish olive: 5Y-6/2

light gray 5Y-7/1

Ash layers

dark reddish brown: 2.5Y-7/2

light gray: 5Y-8/1

Patches of volcanic material 53-56cm

Color mottling:

Dark greenish gray clay, moderately disturbed, separated by at least three ash layers of varying color, one later disturbed. Patches of the lower ash in the upper part of lower dark greenish gray clay

EOC = 96.5cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 53
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 7H
 SECTION: S-AA
 TOP DEPTH (m CSF): 58.18 CSF-A

OBSERVER: JAL

SECTION DESCRIPTION

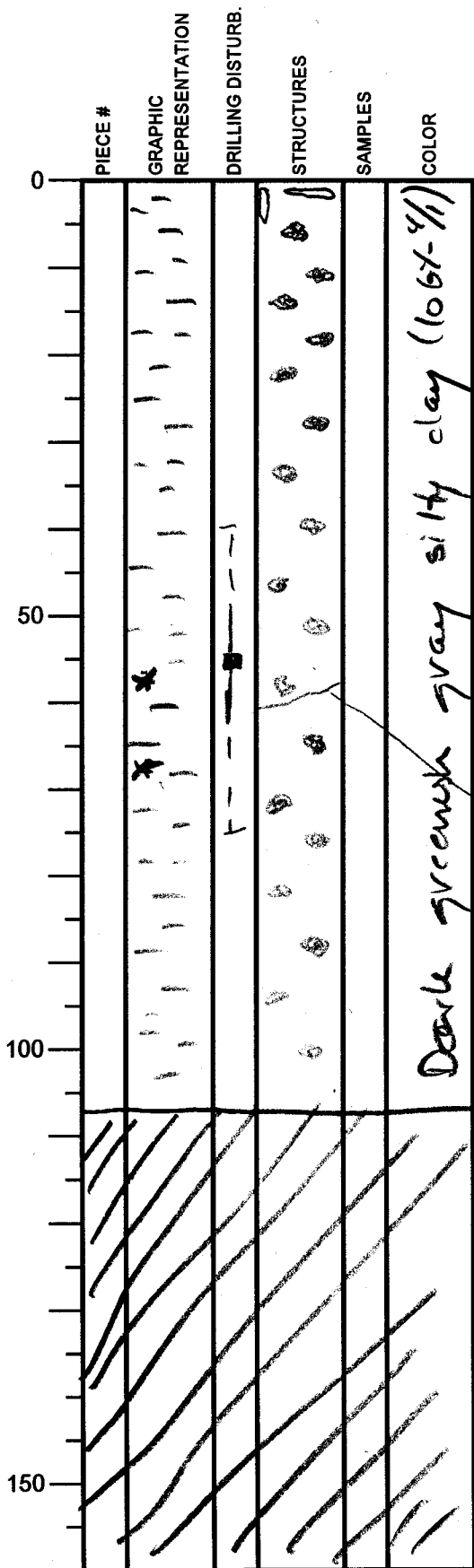
Patches of ash in the uppermost part
 Slightly less green in the upper 10-15 cm
 Color mottling throughout
 patches and thin "layers" of slightly darker color, sometimes horizontal and continuous across the core, sometimes more irregular, dipping, and/or discontinuous
 ⇒ Bioturbated
 Faint change in color, slightly darker below (no change in sd. density at this level)

Dark greenish gray silty clay, moderately bioturbated

Two smear slides, a b

- 57 cm

- 67 cm



EOC = 108.5 cm

Integrated Ocean Drilling Program
Visual Core Description

NO. 54
DATE: 6/10/2010
EXP.: 833
SITE/HOLE: 184
CORE: 7H
SECTION: 7
TOP DEPTH (m CSF):

59.48 CBFA

OBSERVER:

Jac L.

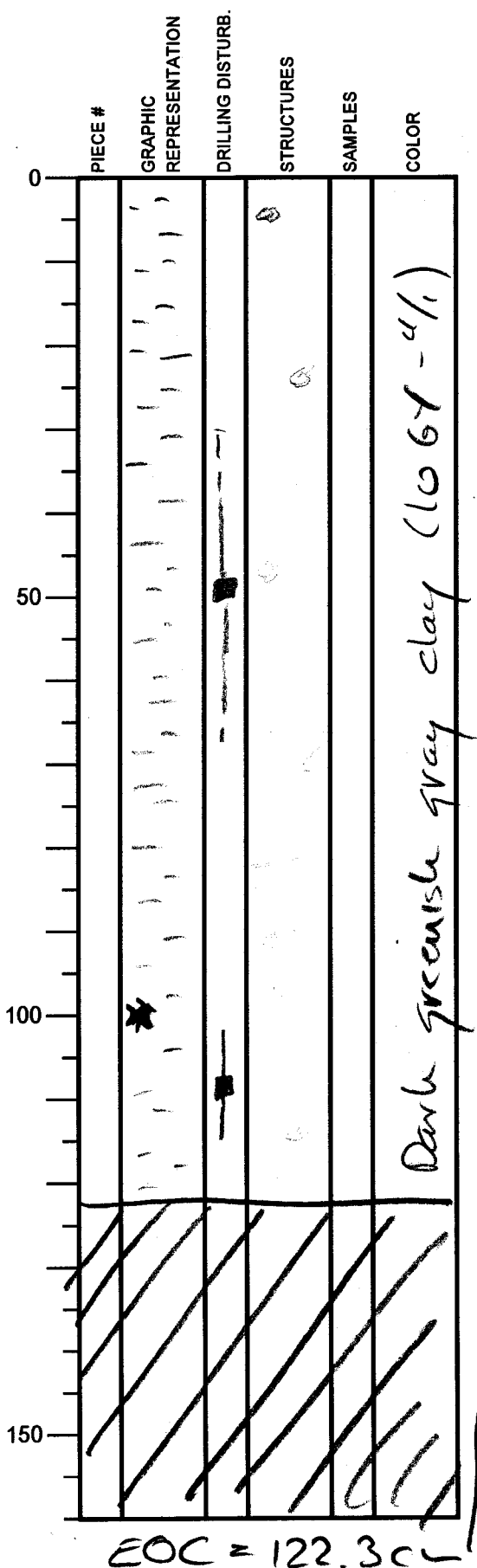
SECTION DESCRIPTION

Faint color mottling
throughout

Smear slide at 100 cm

Dark greenish gray clay
slightly bioturbated

Note: separating slightly and
moderately bioturbated is
likely biased by the smoothness
of the section surface



Integrated Ocean Drilling Program
Visual Core Description

NO. **55**
 DATE: **16/12/2010**
 EXP.: **333**
 SITE/HOLE: **18A**
 CORE: **7H**
 SECTION: **8**
 TOP DEPTH (m CSF):
60.91 CSFA
 OBSERVER:
JL

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
					1067-4/1
50					
100					
150					

SECTION DESCRIPTION

Faint color mottling throughout

Dark greenish gray clay in the lower part and silty clay towards the top. May be biased by the fact that surface was not cleaned after cutting and before description

EOC = 38.2cm

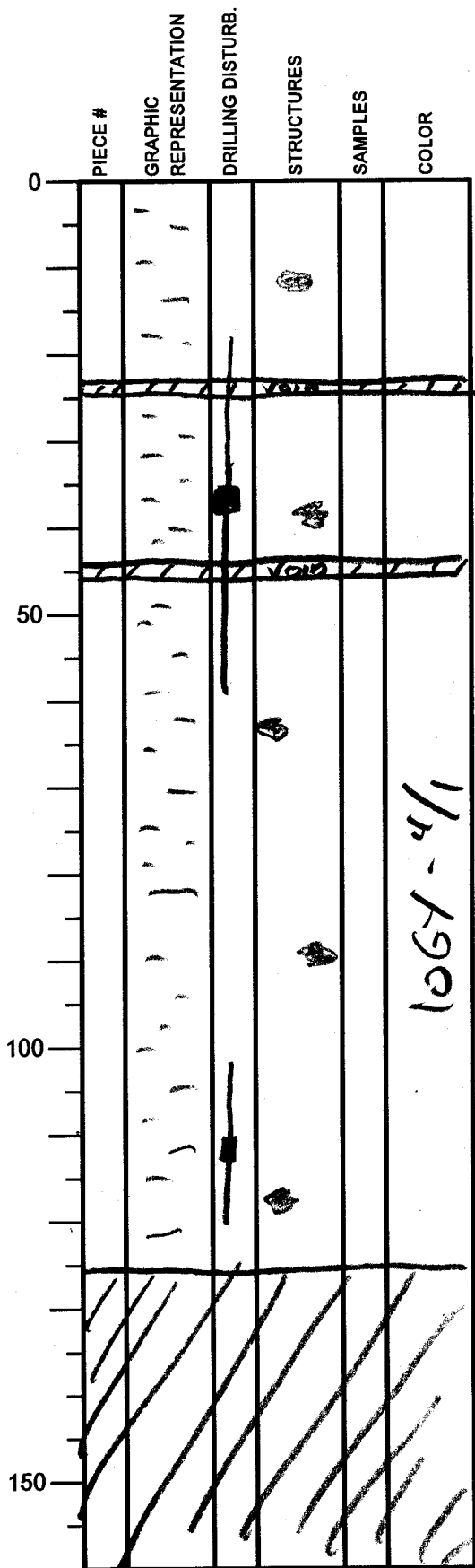
Integrated Ocean Drilling Program

Visual Core Description

NO. **56**
 DATE: **6/12/2010**
 EXP.: **333**
 SITE/HOLE: **18A**
 CORE: **7H**
 SECTION: **9**
 TOP DEPTH (m CSF): **61.1m**

SECTION DESCRIPTION

OBSERVER: **CSFA**
Jal

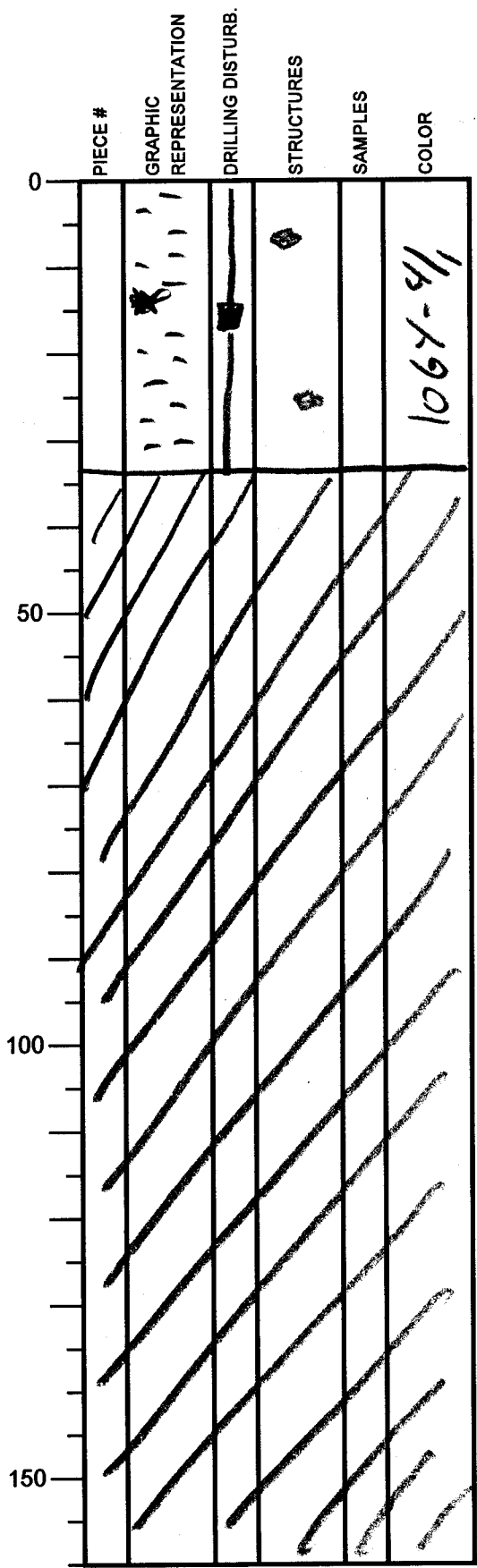


Dark greenish gray
 clay, faint
 bioturbation throughout

Integrated Ocean Drilling Program

Visual Core Description

NO. **57**
 DATE: **16/12/2010**
 EXP.: **333**
 SITE/HOLE: **18A**
 CORE: **7H**
 SECTION: **10**
 TOP DEPTH (m CSF): **62.64**



SECTION DESCRIPTION

OBSERVER: **CSFA**
JL

Dark greenish gray clay,
 faint bioturbation
 throughout

Smear slide at 14cm

EOC = 33.5 cm

Integrated Ocean Drilling Program

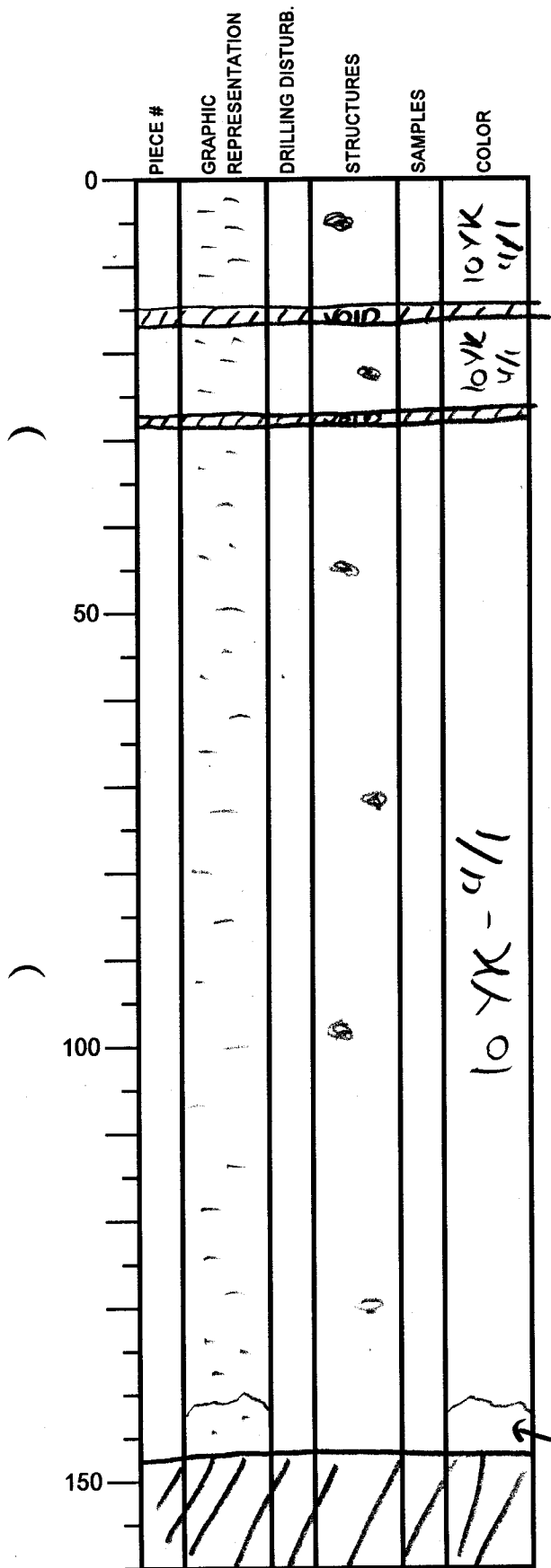
Visual Core Description

NO. 58
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 2H
 SECTION: 11
 TOP DEPTH (m CSF): 62.94
 CSF-A

OBSERVER:

Jan L.

SECTION DESCRIPTION



Dark greenish gray clay
 faint bioturbation
 throughout (same as
 above) - lower ~6cm
 gray clay, homogeneous

10Y-5/1
 Gray clay

EOC = 148.5cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 59
 DATE: 6/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 746
 SECTION: CC
 TOP DEPTH (m CSF): 64.415m

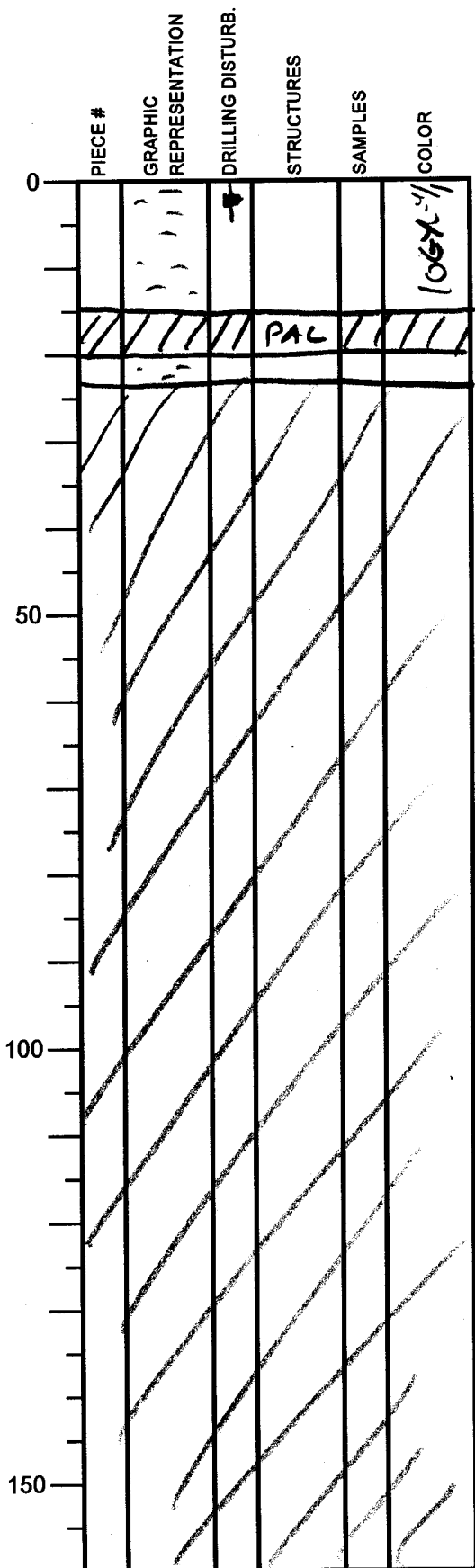
CSF-A

OBSERVER:

J. L.

SECTION DESCRIPTION

Dark greenish
gray clay



EOC = 23 cm

Integrated Ocean Drilling Program

Visual Core Description

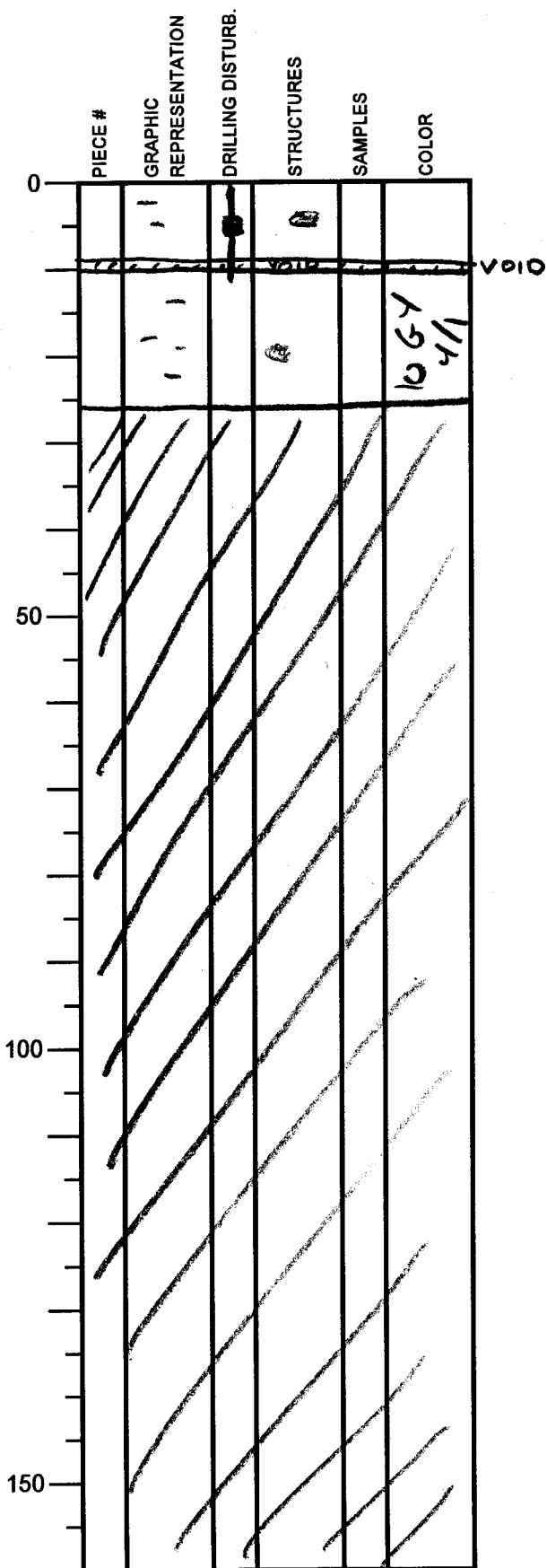
NO. 60
 DATE: 16/12/20 10
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 8H
 SECTION: 01
 TOP DEPTH (m CSF): 63.65

CSF-A

OBSERVER:

JAN L.

SECTION DESCRIPTION



Dark greenish gray
silty clay

Faint color mottling, +
slightly bioturbated

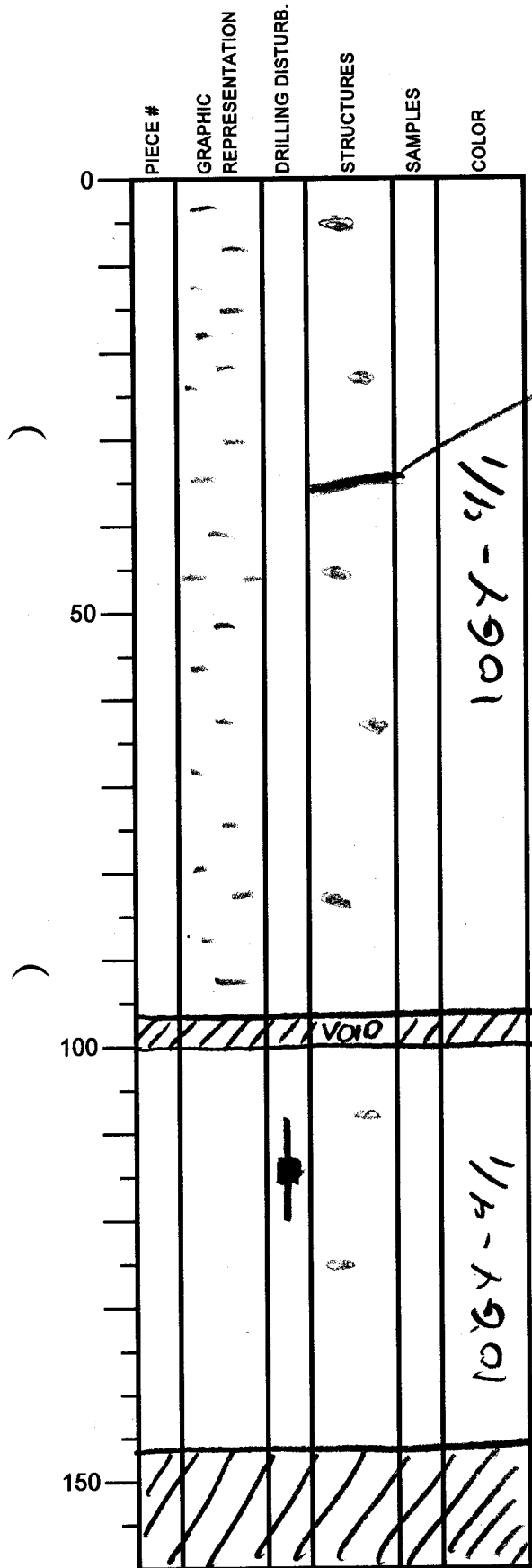
EOC = 25.5m

Integrated Ocean Drilling Program

Visual Core Description

NO. 61
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 8M
 SECTION: 02
 TOP DEPTH (m CSF): 63.905 CSF-A
 OBSERVER:

J. L.



SECTION DESCRIPTION

Black band

Dark greenish gray silty clay (same as above)

Thin, black band at 36 cm
 Faint color mottling & slightly bioturbated

EOC = 146.5 cm

Integrated Ocean Drilling Program

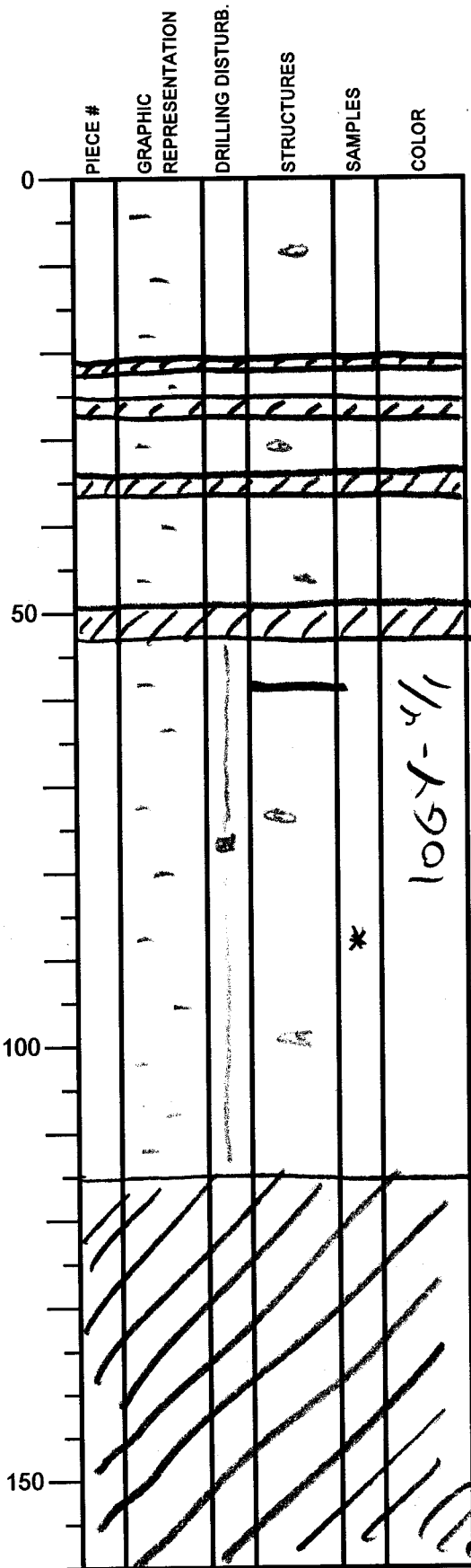
Visual Core Description

NO. 62
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 8H
 SECTION: 03
 TOP DEPTH (m CSF): 65.37 CSF-A

OBSERVER:

Jan L.

SECTION DESCRIPTION



VOID

VOID

VOID

VOID

Black band

LOG X-4/1

(SS = 86 cm)

Dark greenish gray silty clay (same as above)

Faint color mottling throughout → slightly bioturbated

EOC = 115 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 63
 DATE: 6/12/2010
 EXP.: 333
 SITE/HOLE: 184
 CORE: 8H
 SECTION: 0-1
 TOP DEPTH (m CSF): 66.525 (SF-2)
 OBSERVER: JAL

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					106Y-4/1
			▲	*	
			▲		
			▲		
			▲		
50	/ / / / /		VOID		
			U	*	107K-4/1
			U		
			VOID		
			U		106Y-4/1
100			U		
			U		
150					

SECTION DESCRIPTION

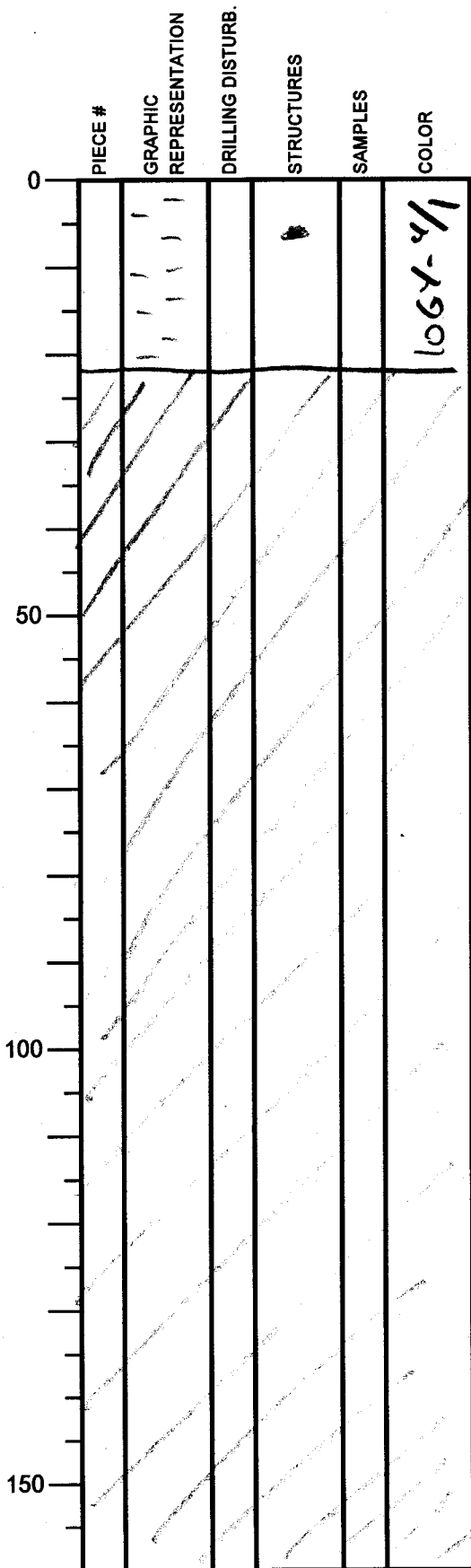
Dark greenish gray
 (SS = 20 cm)
 Mudstone clasts
 gradually
 Brownish gray
 Recumbent folds (?)
 * SS = 70 cm
 Dark greenish gray
 Mottled
 Base of MTD at 75 cm,
 brownish gray - gradually
 dark greenish gray towards
 the top where it comprises
 clay clasts
 Lower part of the section:
 Dark greenish gray, slightly
 bioturbated silty clay

Holes - transport deposit

EOC = 112.5 cm

Integrated Ocean Drilling Program
Visual Core Description

NO. 64
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 84
 SECTION: 05
 TOP DEPTH (m CSF): 67.68 m CSF-A
 OBSERVER: Jan L.



SECTION DESCRIPTION

Dark greenish gray
 silty clay (same as
 above)

Faint color mottling =
 slightly bioturbated

EOC = 22 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 65
 DATE: 6/2/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 8H
 SECTION: 07
 TOP DEPTH (m CSF): -A

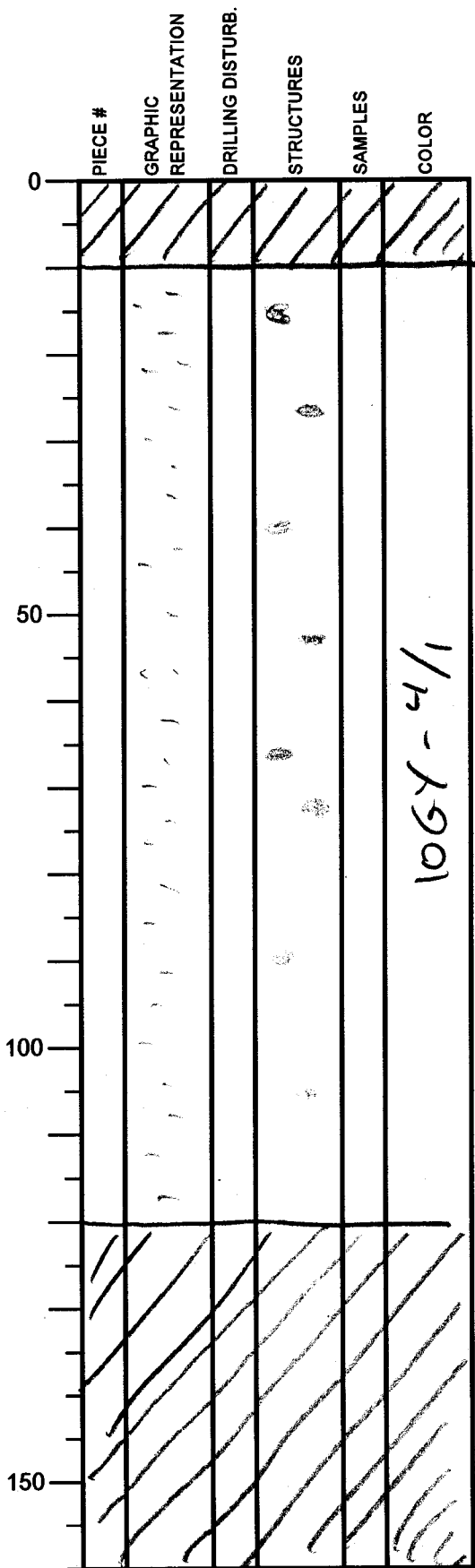
68.12m

OBSERVER:

Jal.

SECTION DESCRIPTION

Dark greenish gray clay
 Fair color mottling &
 slightly disturbed
 throughout



EOC = 120 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 66
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 8H
 SECTION: 08
 TOP DEPTH (m CSF): -
 69.32 m
 OBSERVER: S. Gao

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

SECTION DESCRIPTION

Silty clay, with
 dark brown volcanic
 ash particles
 throughout the
 core (e.g. at
 23, 51.5, 69, 82,
 85, 113, 120, 128 and
 136 cm.

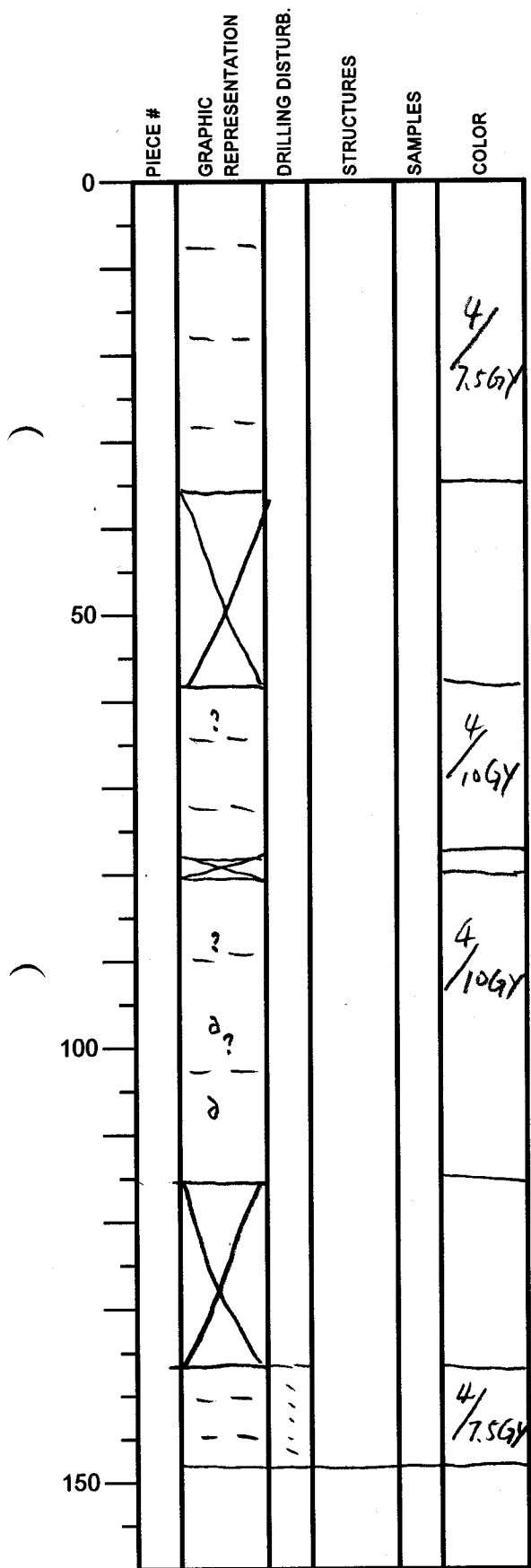
4/106g

EOC = 146 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 67
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: 333-0018A
 CORE: 8H
 SECTION: 09-AA
 TOP DEPTH (m CSF): 70.8m



SECTION DESCRIPTION

Silty clay, with
 volcanic ash
 at 64, 88, 100,
 107 cm, and shell
 fragments at
 97 and 108 cm.

OBSERVER: S. Gao

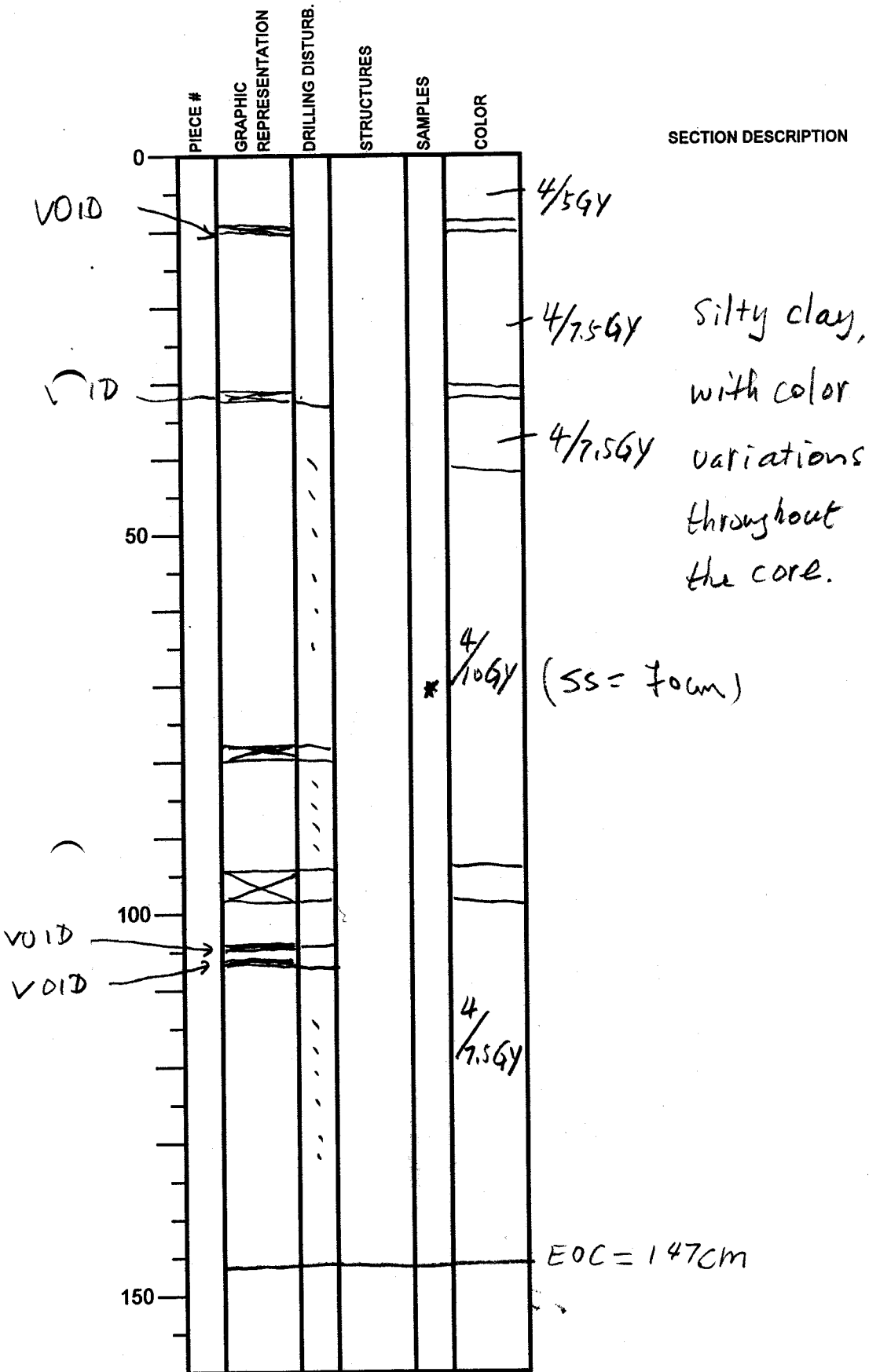
EOC = 148 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 68
DATE: 10/21/2010
EXP.: 333
SITE/HOLE: C0018A
CORE: 84
SECTION: 10-AA
TOP DEPTH (m CSF): 72.3 m

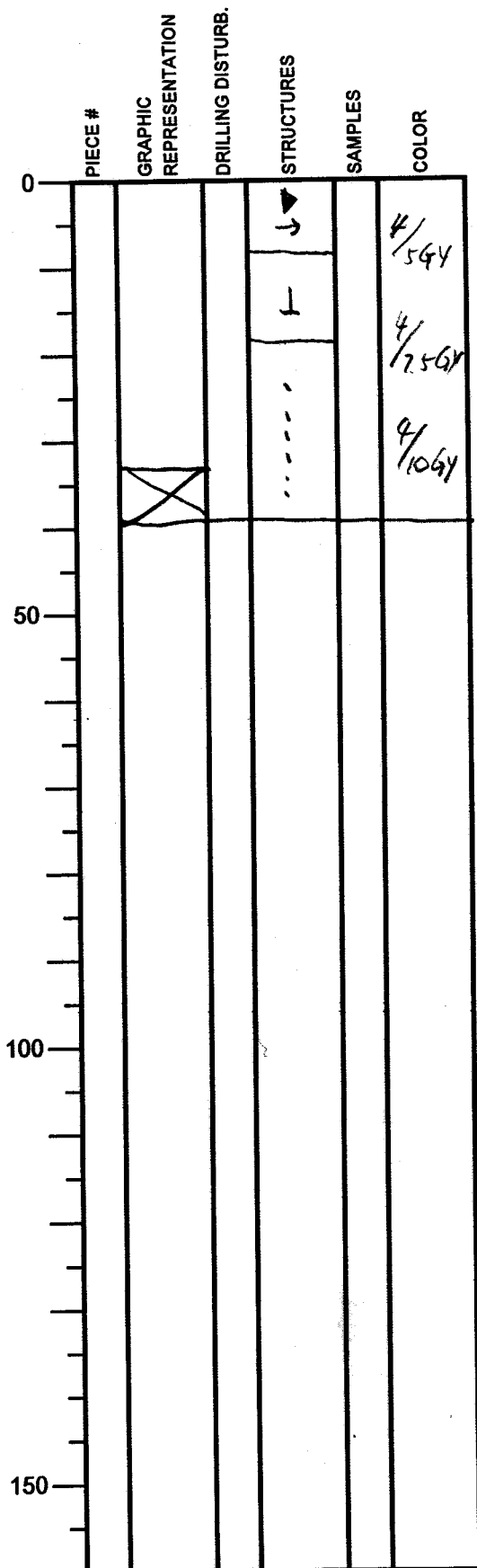
OBSERVER: S. Gas



Integrated Ocean Drilling Program

Visual Core Description

NO. 69
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 8H
 SECTION: CC-AA
 TOP DEPTH (m CSF): 13.36m



SECTION DESCRIPTION

OBSERVER: S. Gao

silty clay, with
 color changes more or
 less continuously from
 4/56Y to 4/106Y

Integrated Ocean Drilling Program Visual Core Description

NO. 70
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 9H
 SECTION: 01-AA
 TOP DEPTH (m CSF): 73.16 m

OBSERVER: S. Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50			▲ →			4/ 10Gx
100			- - -			
150						

SECTION DESCRIPTION

Silty clay

EOC = 104 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 71
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: C001PA
 CORE: 9H
 SECTION: 02-AA
 TOP DEPTH (m CSF): 74.2

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50			▲ →			
100						4 / 1061
150						

SECTION DESCRIPTION

*Silty clay,
 heavily disturbed
 by drilling throughout
 the core.*

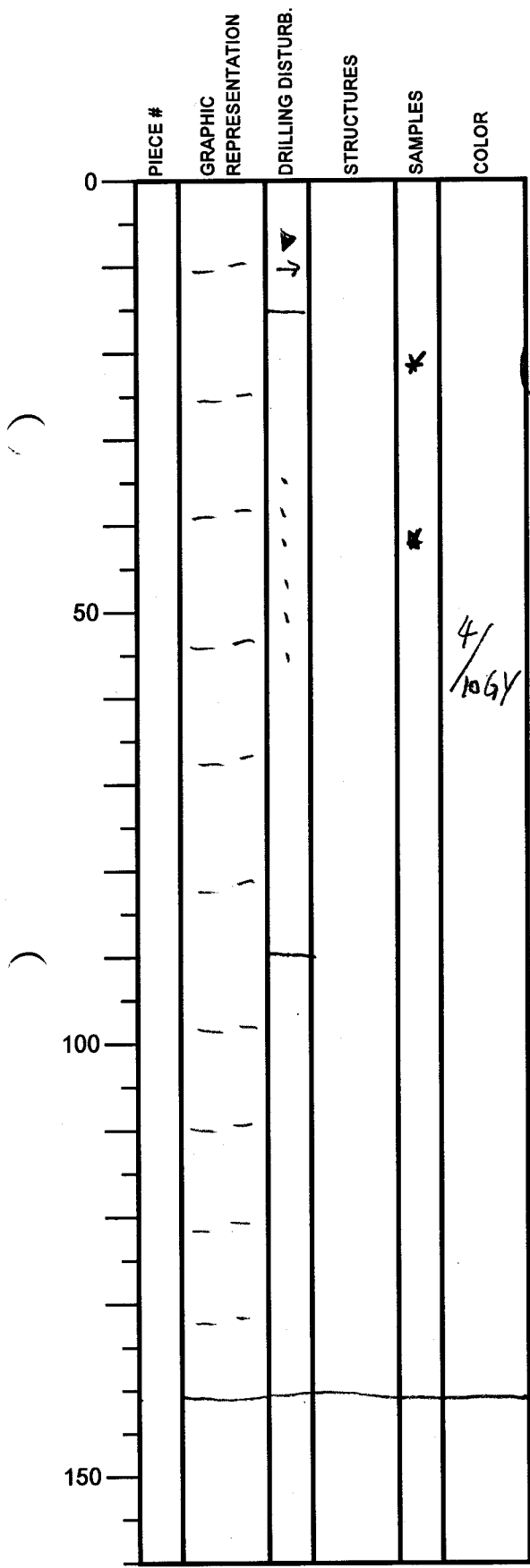
OBSERVER: S. Gao

EOC = 150cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 72
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: C0010A
 CORE: 9H
 SECTION: 03-AA
 TOP DEPTH (m CSF): 75.7



SECTION DESCRIPTION

OBSERVER: S. Gas

silty clay, with
 a mud clast (?)
 3 cm in diameter
 at 39-42 cm.
 Increased clay
 content.

SS =
 (20um)

 SS =
 (41um)

4/106Y

EOC = 141 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 73
 DATE: 16/12/2010
 EXP.: 383
 SITE/HOLE: C0018A
 CORE: 9H
 SECTION: 04-AA
 TOP DEPTH (m CSF): 77.2

OBSERVER: S. Gao

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

SECTION DESCRIPTION

Silty clay, with a volcanic ash layer at 120-125 cm (there is a sharp boundary between the ash layer and the underlying clay). Volcanic ashes in the 128-133 cm range.

4/106Y

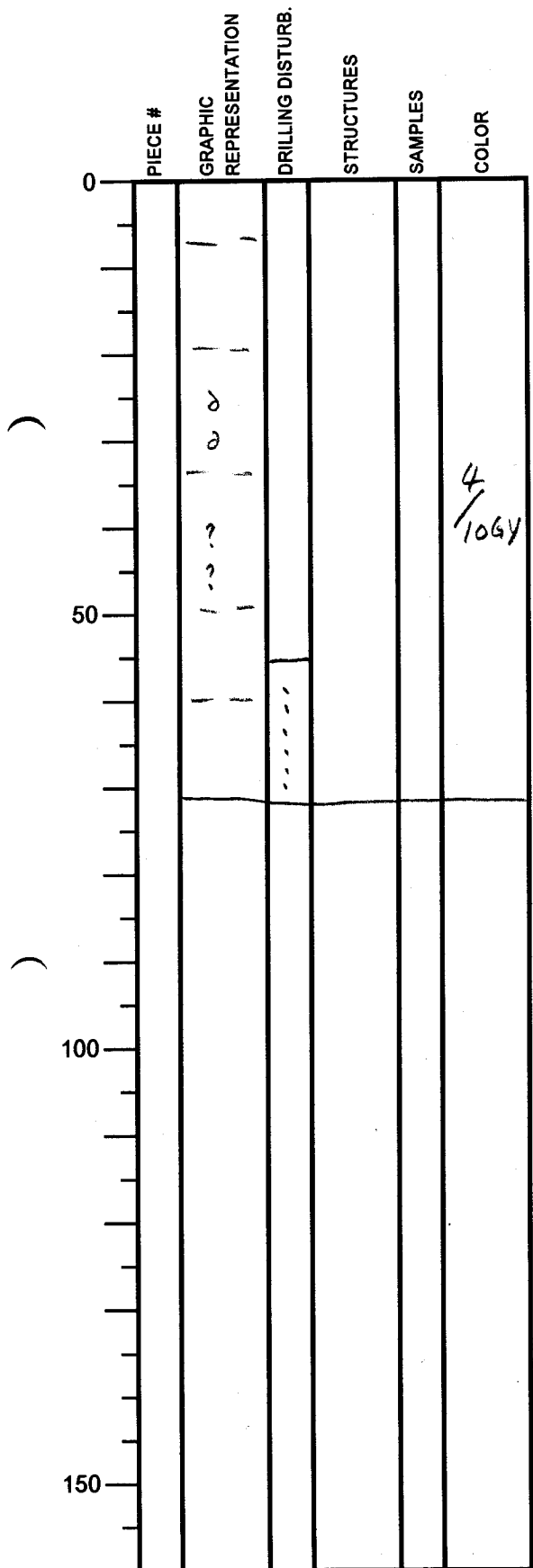
xx (SS = 119 cm)

EOC = 140.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 74
 DATE: 10/21/2010
 EXP.: 333
 SITE/HOLE: 0008A
 CORE: 9H
 SECTION: 05-AA
 TOP DEPTH (m CSF): 78.5m



SECTION DESCRIPTION

OBSERVER: S. Gao

silty clay, with
 volcanic ash and
 shell fragments being
 scattered (e.g. at
 26, 31, 41 and 45 cm).

EOC = 72cm

Integrated Ocean Drilling Program

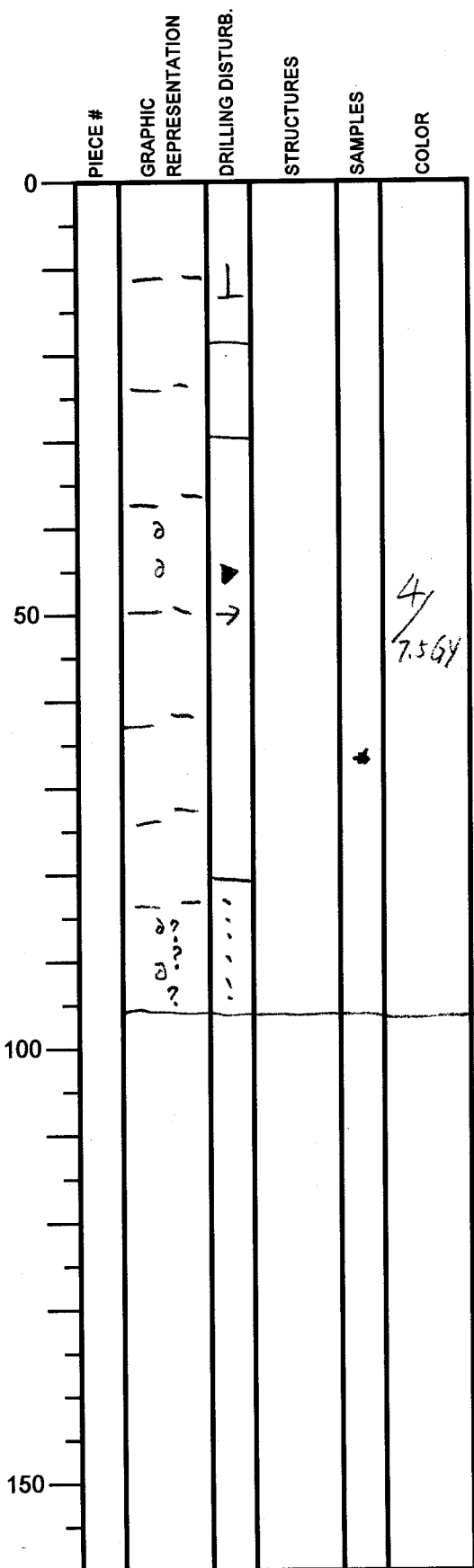
Visual Core Description

NO. 75
 DATE: 16/12/2010
 EXP.: 322
 SITE/HOLE: C0010A
 CORE: 9H
 SECTION: 06-AA
 TOP DEPTH (m CSF): 79.25m

SECTION DESCRIPTION

OBSERVER: S. Gao

Silty clay,
 shell fragments at
 40.5, 45, 87 and
 92 cm; Volcanic
 ash at 85, 87
 and 89-90 cm.



(SS=65 um)

EOC=95cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 76
 DATE: 10/12/2010
 EXP.: 333
 SITE/HOLE: CO-18A
 CORE: 9H
 SECTION: CC-AA
 TOP DEPTH (m CSF): 80.19m

OBSERVER: S. Gao

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
		▼			
		→			
					4 / 7.56m
50					
100					
150					

SECTION DESCRIPTION

Silty clay, with a shell fragment a 35.5cm.

EOC = 37.5

Integrated Ocean Drilling Program

Visual Core Description

NO. 76
 DATE: 11/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 10H-01-AA
 SECTION: 01
 TOP DEPTH (m CSF): 80.16m

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50		52cm				
100						
150						

SECTION DESCRIPTION

OBSERVER: T. ALVES

] Gas-escape voids (10 cm)

 Silty mud, homogeneous

 Mottled, dense patch (Volcanic ash)

log 4/1

Integrated Ocean Drilling Program Visual Core Description

NO. 77
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: cool8a
 CORE: 10N-02-AA
 SECTION: 02
 TOP DEPTH (m CSF): 80.7m

OBSERVER: T. Miles

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				IND CONCT		
50						10Gy 4/2
100		(2)		Pebbles *		
150		140cm				

SECTION DESCRIPTION

Pebbles → 10Gy 5/1

Notified silty clay, homogeneous

Pebbles → 10Gy 3/1 volcaniclastic

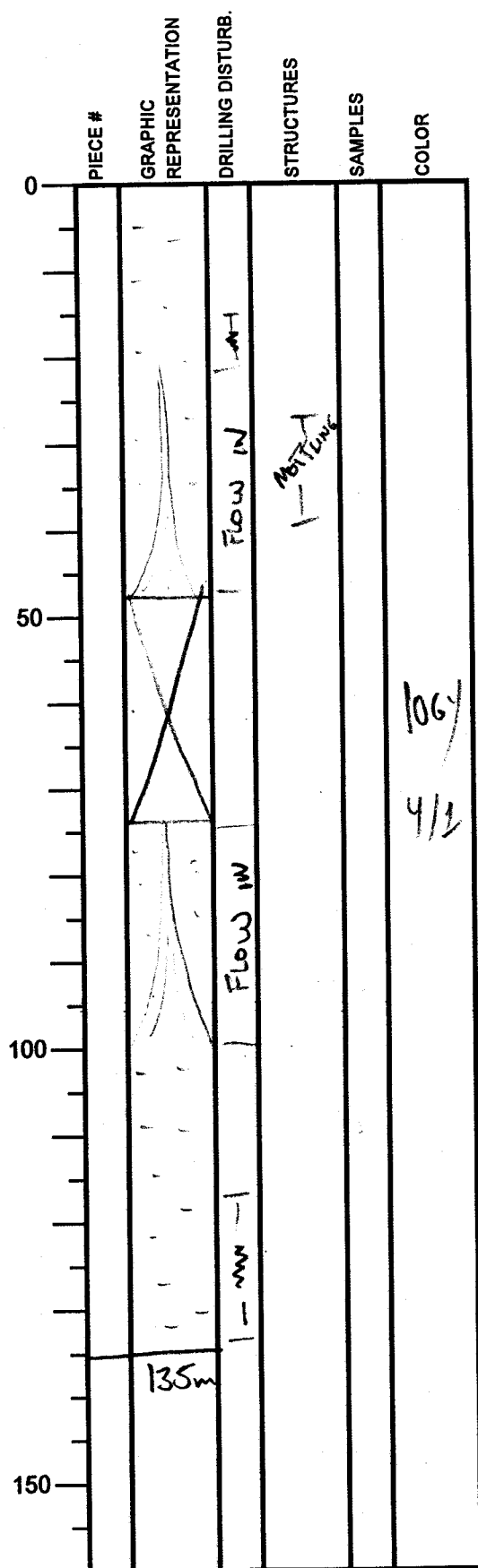
→ Possibly volcaniclastic sand (washed)
 (SS = 128 cm)

Integrated Ocean Drilling Program Visual Core Description

NO. 78
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 10W-03-AA
 SECTION: 03
 TOP DEPTH (m CSF): 82.10 m

OBSERVER: J. AWRS

SECTION DESCRIPTION

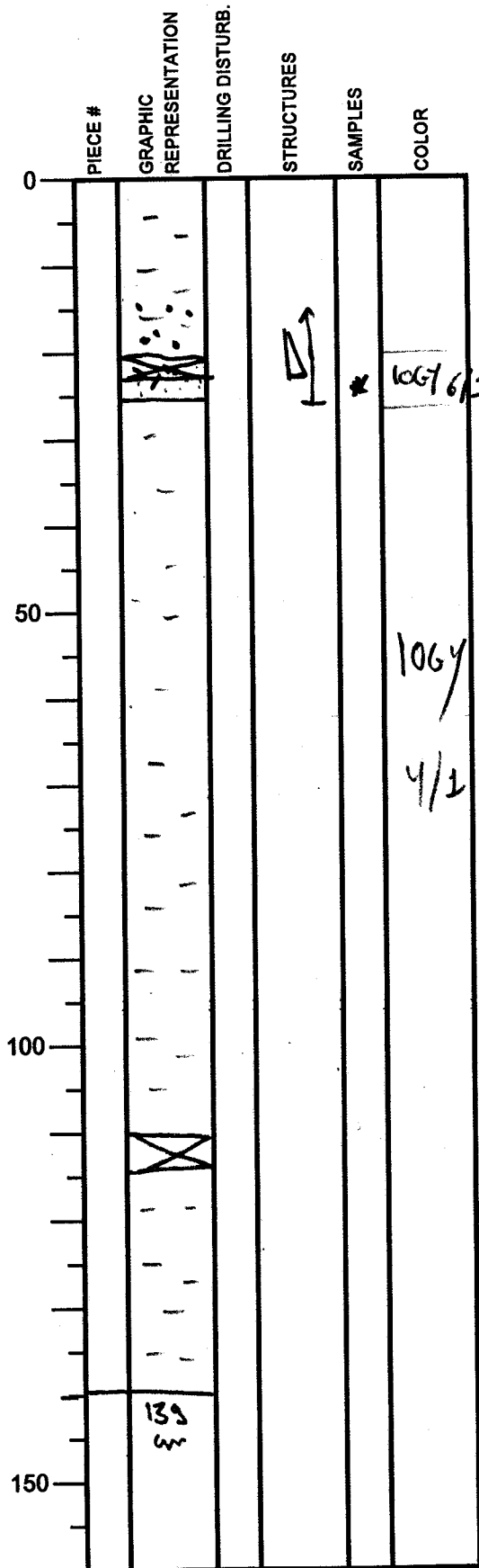


Silty clay, homogeneous

Integrated Ocean Drilling Program Visual Core Description

NO. 79
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: CoolBA
 CORE: 10H-05-AA
 SECTION: 05
 TOP DEPTH (m CSF): 83.8 m

OBSERVER: T. AWES



SECTION DESCRIPTION

(SS = 24 um)

Volcanic ash. Fine-grained
 Normal grading.
 bed might have been
 occupied by
 more ash.

Silty clay. Homogeneous

Integrated Ocean Drilling Program Visual Core Description

NO. **80**
 DATE: **16/12/2010**
 EXP.: **333**
 SITE/HOLE: **COO18A**
 CORE: **COO18A**
 SECTION: **10H-06-AA (06)**
 TOP DEPTH (m CSF): **85.2 m**

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						106Y 4/1
100						
150						

SECTION DESCRIPTION

OBSERVER: **T. Plus**

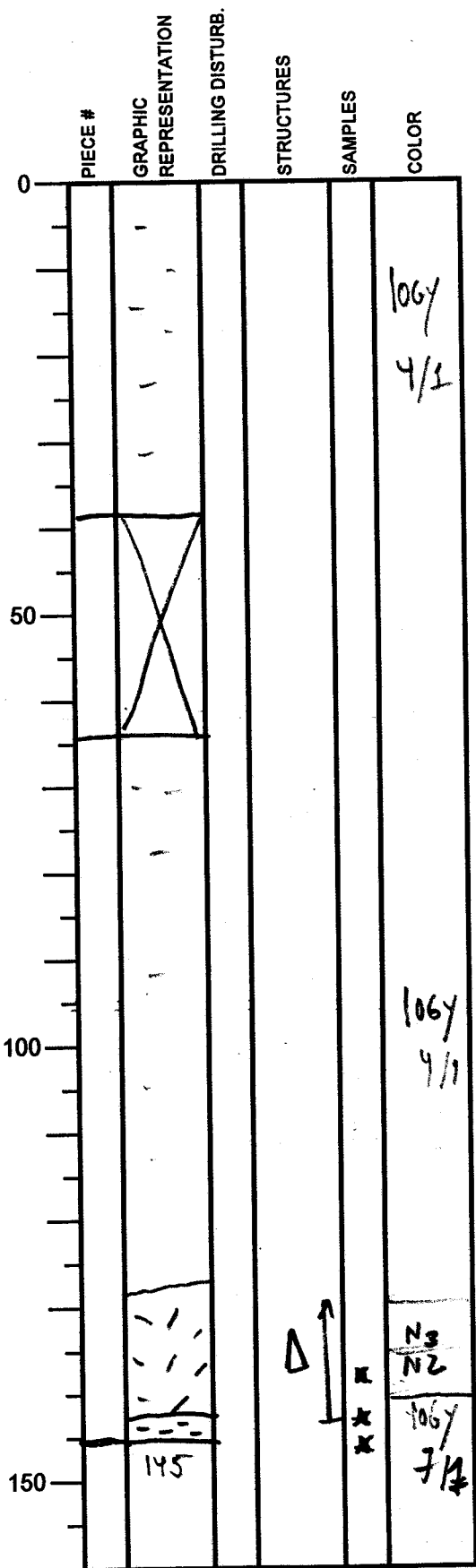
Silty clay, Homogeneous
matrix

Integrated Ocean Drilling Program Visual Core Description

NO. 81
 DATE: 6/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 10H-07-AA
 SECTION: 7
 TOP DEPTH (m CSF): 86.6 m

SECTION DESCRIPTION

OBSERVER: T. ALVES



Screen Sides:

- 138 cm → Dark grey upper horizon
- 139.5 cm → light grey
- 143.5 cm → lower background with at base

Silty clay, laminae

Volcanic ash. Normal grading
 Grey to dark grey.

Integrated Ocean Drilling Program Visual Core Description

NO. 82
 DATE: 6/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 10H-08-AA
 SECTION: 08
 TOP DEPTH (m CSF): 88.05m

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50		-	λ		log _v 4/1	
100		-	λ		log _v 1/4 N2	
150		-		⊙	⊙	

SECTION DESCRIPTION

OBSERVER: T. AWES

Silty mud. Mottled.

(Bioturbation)

(SS = 130 cm)

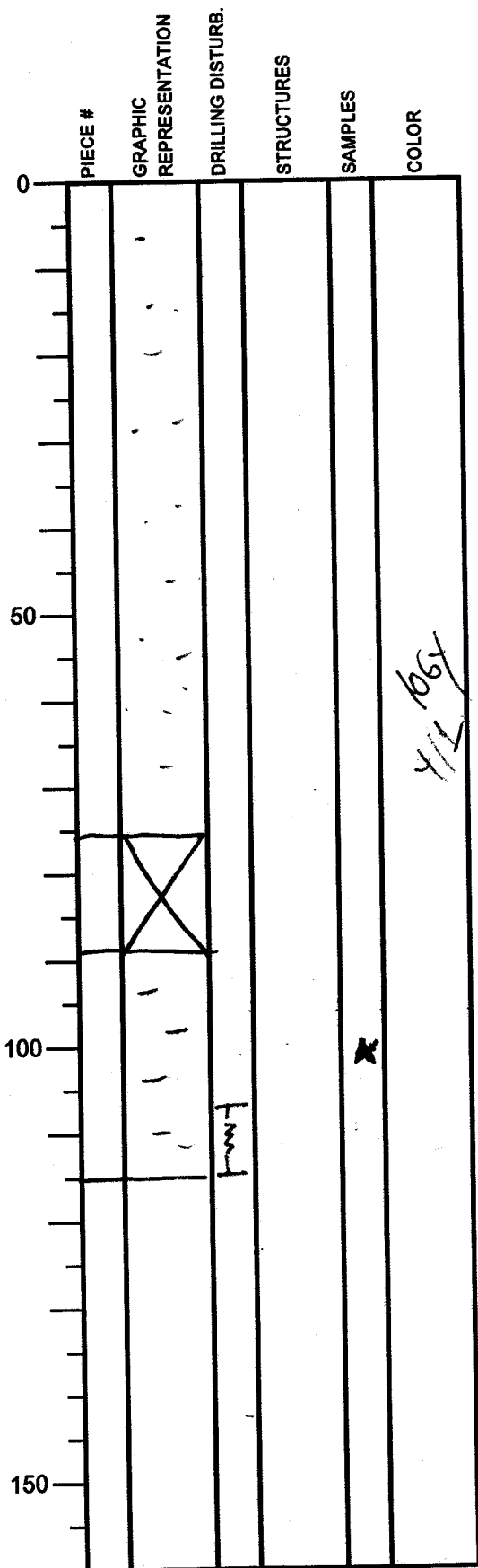
CONVOLUTED BEDDING. VOLCANIC RES.

Integrated Ocean Drilling Program Visual Core Description

NO. 83
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: BH-03-AA
 SECTION: 09
 TOP DEPTH (m CSF): 89.45m

OBSERVER: T. MUES

SECTION DESCRIPTION





silty clay, homogeneous
Mottled

1/2 kg

SS: 100cm

Integrated Ocean Drilling Program Visual Core Description

NO. 84
 DATE: 6/12/20 10
 EXP.: 333
 SITE/HOLE: B0018A
 CORE: 10H
 SECTION: CC-AA
 TOP DEPTH (m CSF): 90.6m

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						4/1051
50						
100						
150						

SECTION DESCRIPTION

silty clay, with
 volcanic ash
 (10.5cm).

EOC = 33cm

OBSERVER: S. Gao

Integrated Ocean Drilling Program Visual Core Description

NO. 85
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: COOLBA
 CORE: 11H
 SECTION: 1
 TOP DEPTH (m CSF): 89.66 m

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0	(Hand-drawn lithological symbols)		Δ ↑	*	1067 4/1 1067 7/1 1067 4/1 1067 4/1 4/1
50	(Hand-drawn lithological symbols)		Δ ↑		1067 4/1
64 cm	64 cm				
100					
150					

SECTION DESCRIPTION

OBSERVER: T. ALVES

Two volcanoclastic
 sand horizons, fine-grained
 upwards. Shale, less yellow base.
 [Dark patches are biotite-rich]
 some Py in biotite.

silly clay
marked

SS = 7 cm ✓

SS = 56 cm ✓

Integrated Ocean Drilling Program Visual Core Description

NO. 86
 DATE: 10/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 11#
 SECTION: 2
 TOP DEPTH (m CSF): 90.3 m

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
50	*			*	D67 4/1
100	●		Dark pebble		
134	134 cm				
150					

SECTION DESCRIPTION

OBSERVER: T. ALVES

SS = 41 cm ✓

Integrated Ocean Drilling Program Visual Core Description

NO. 87
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: CooB/A
 CORE: 11H
 SECTION: 3
 TOP DEPTH (m CSF): 91.7m

OBSERVER: T-ALVES

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					106Y 4/1
					N2
					106Y 4/1
50				*	N7 (SS = 51um)
					106Y 4/1
100			Nothing/Volcanic ash		N7 (CLASTS)
	140cm				
150					

SECTION DESCRIPTION

Silty clay with
Two volcanic ash lenses.

Notching of N7 ash
below 60 cm, until
127 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 88
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: COALBA
 CORE: 114
 SECTION: 4
 TOP DEPTH (m CSF): 93.8 m

OBSERVER: J. AWES

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50		(Hand-drawn symbols)	(Hand-drawn symbol)		*	1067 411
100		81m				
150						

SECTION DESCRIPTION

lit: N3 colour

Silty mud to volcanoclastic
sand clast at 26 cm

SS = 23 cm ✓

Integrated Ocean Drilling Program Visual Core Description

NO. 89
 DATE: 16 / 12 / 2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 114
 SECTION: 5
 TOP DEPTH (m CSF): 93.89

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						10G4 4/1
50						
100						
150						

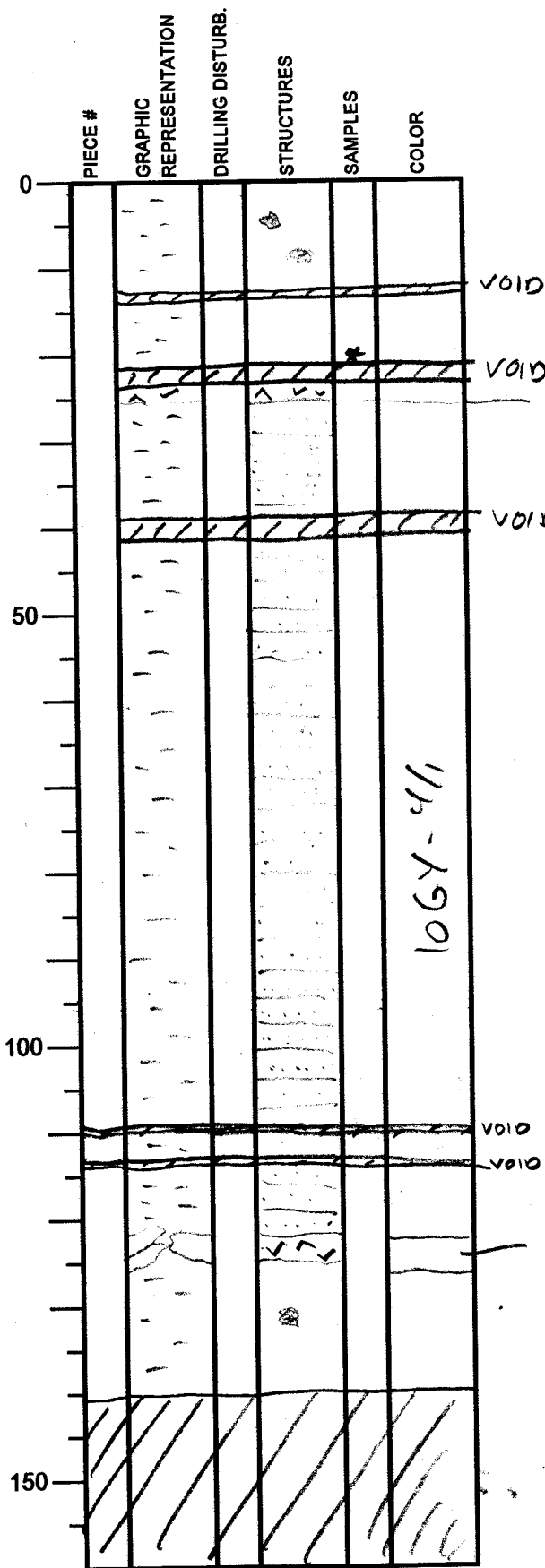
SECTION DESCRIPTION

silty clay - mottled

OBSERVER:

Integrated Ocean Drilling Program Visual Core Description

NO. 90
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 11H
 SECTION: 6
 TOP DEPTH (m CSF): 94.105 CSF-A



SECTION DESCRIPTION

faint mottling
 (# SS = 21 um)
deformed, black ash layer

OBSERVER: *Ja L.*

Color banding

11H-90

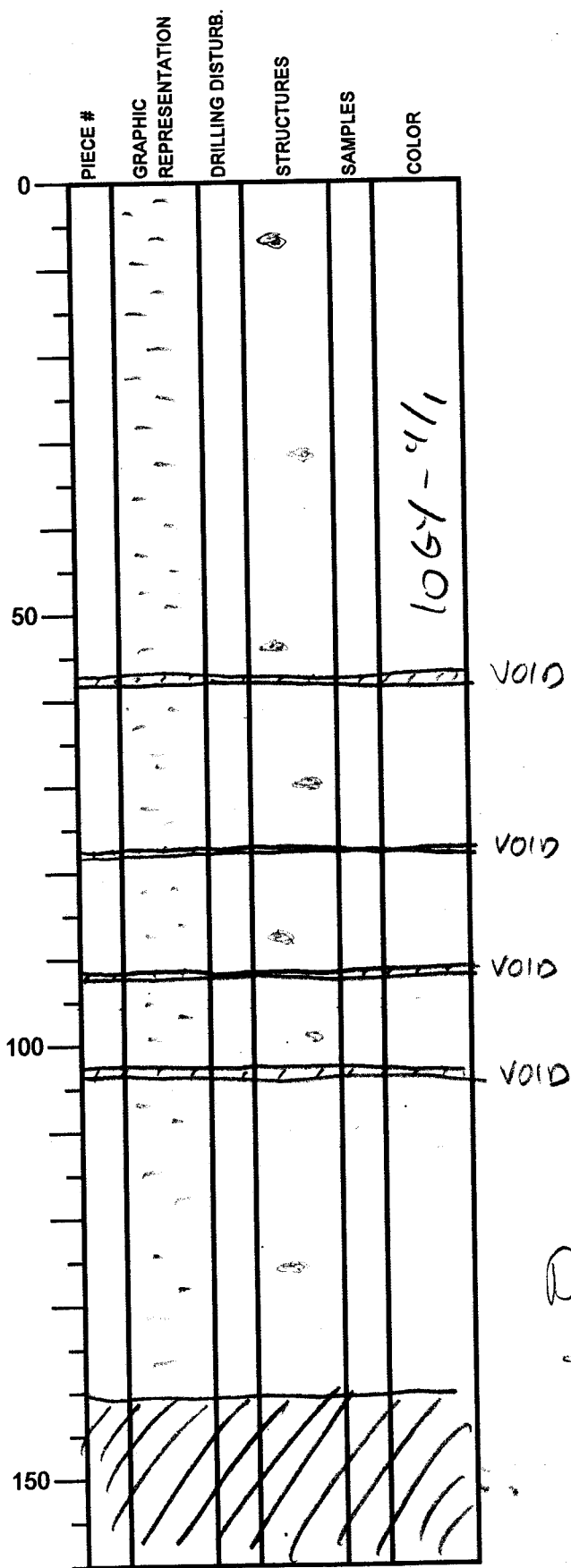
*Ash layer, disturbed, light gray
 faint mottling*

*Dark greenish gray clay
 dominated by faint color
 banding and comprises two
 ash layers, the lower
 deformed, probably also the upper*

EOC = 140.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 91
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 11H
 SECTION: 7
 TOP DEPTH (m CSF): -14
 95.515m
 OBSERVER: J. L.



SECTION DESCRIPTION

Faint color mottling throughout (may be caused by irregular section surface)

Dark greenish gray clay
 faint color mottling
 throughout ⇒ bioturbation slightly

EOC = 1410 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 92
 DATE: 7/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 11H
 SECTION: 8
 TOP DEPTH (m CSF): -9
 96.92 m
 OBSERVER:

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
				*	
					106Y-1/1
50					
100					
					106Y-4/1
150					

SECTION DESCRIPTION

J. L.

* SS = 13 cm

Faint color mottling / banding throughout

Dark greenish gray clay comprising faint color mottling / banding throughout & slightly disturbed

EDC 219.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 93
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 11H
 SECTION: 10
 TOP DEPTH (m CSF): -A
 98.355m

OBSERVER:

F.L.

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			●		
			□		
50			●		1/2 - K01
			VOID		
			LOW		
			VOID		
100			●		1/2 - K01
150					

SECTION DESCRIPTION

Patch of ash

Gray clay, faint color
 with banding throughout

EOC = 137 cm

Integrated Ocean Drilling Program Visual Core Description

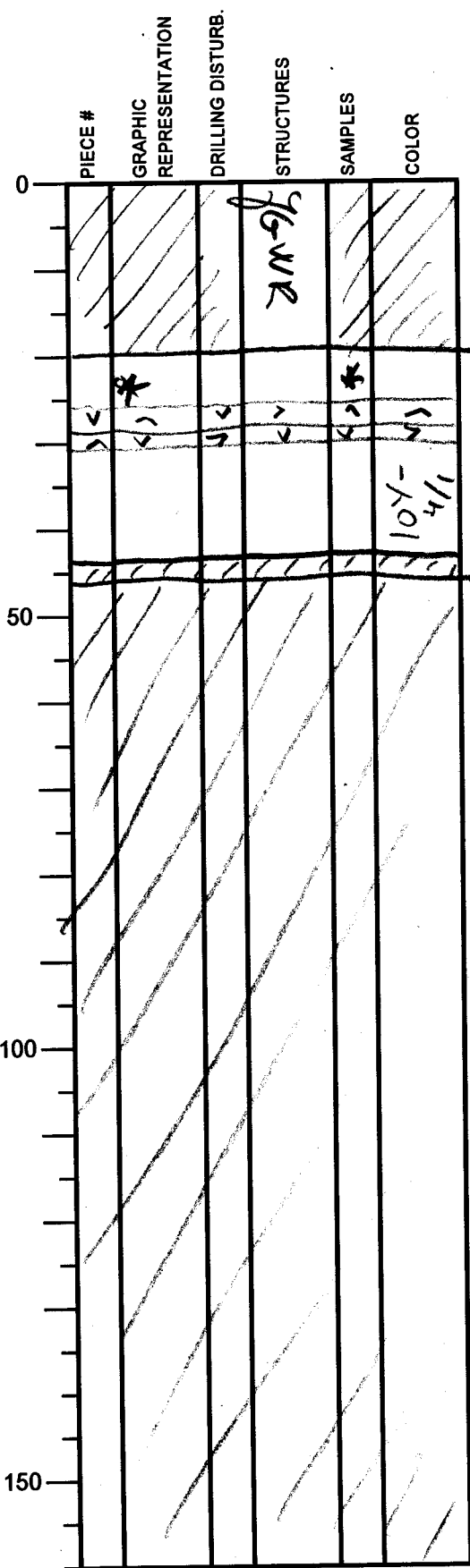
NO. 99
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 11H
 SECTION: 11
 TOP DEPTH (m CSF): -A

99.73m

OBSERVER:

Jal

SECTION DESCRIPTION



Brown ash layer (5Y-5/1)
 Light gray ash layer (10Y-8/1)

VOID

Gray clay composition;
 two ash layers, the upper
 brown, the lower light gray

* (Smear slide at 23cm)
 ✓

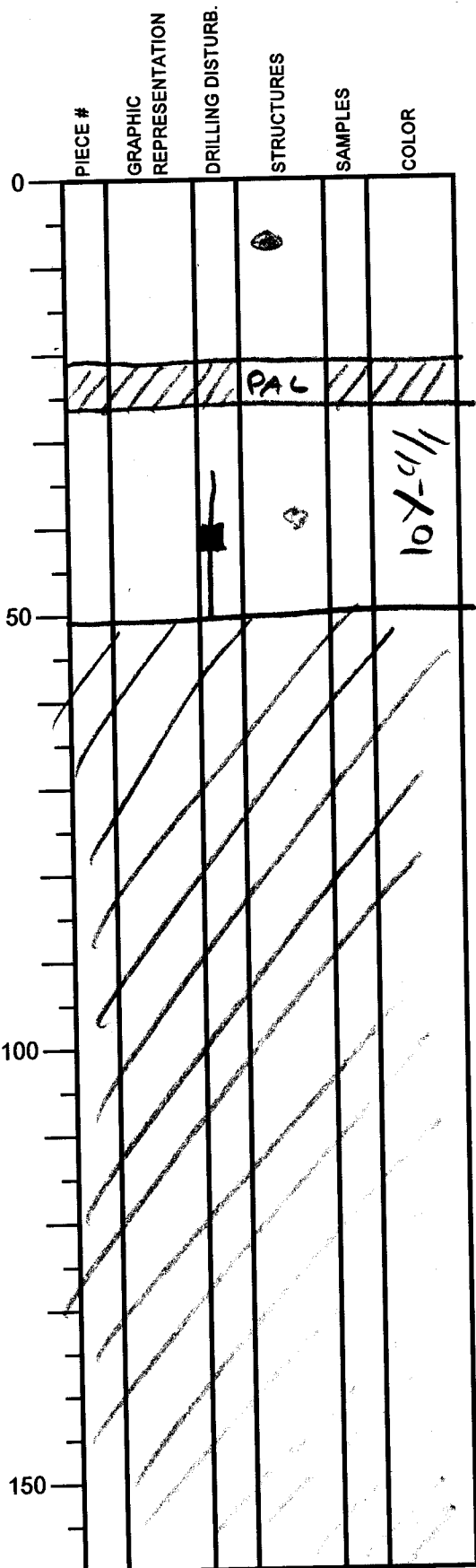
EOC = 46 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 95
 DATE: 17/12/200
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 11H
 SECTION: CC
 TOP DEPTH (m CSF): -a
 100.19 m
 OBSERVER:

J. L.

SECTION DESCRIPTION



Gray clay with
 faint color mottling &
 slightly disturbed

EOG = 50.5 cm

Integrated Ocean Drilling Program

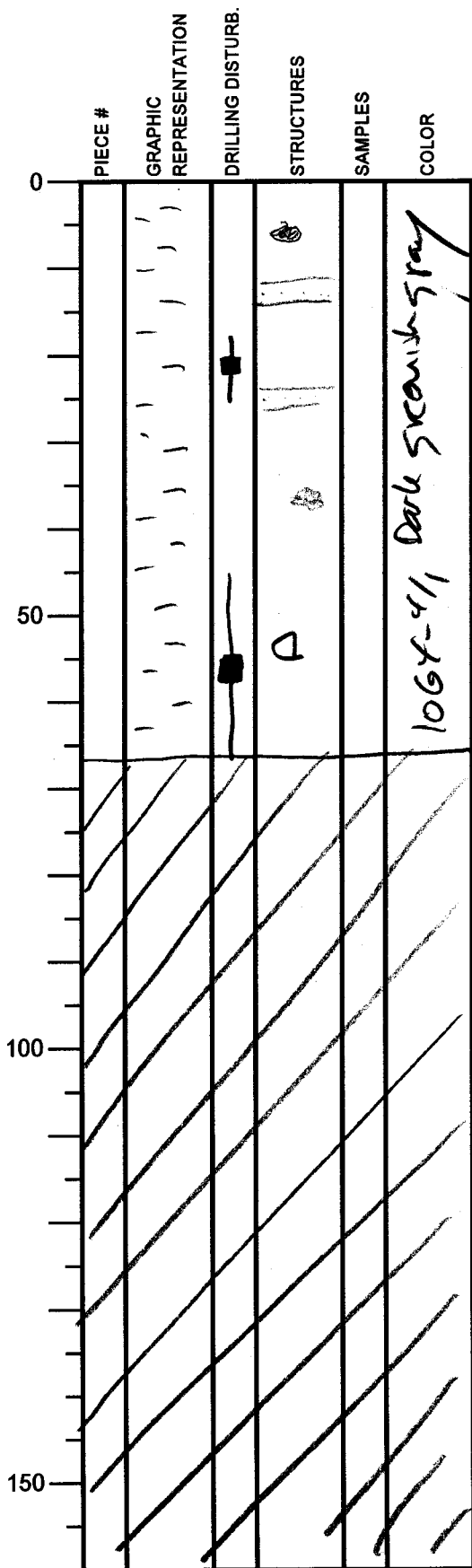
Visual Core Description

NO. 96
 DATE: 7/2/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 124
 SECTION: /
 TOP DEPTH (m CSF): -A

99.15 m

OBSERVER: Jan L.

SECTION DESCRIPTION



Color mottling / banding
 in the non-disturbed part

Patch of volcanic material at ~53cm

Dark greenish gray clay
 comprising color mottling /
 banding throughout
 ⇒ slightly bioturbated

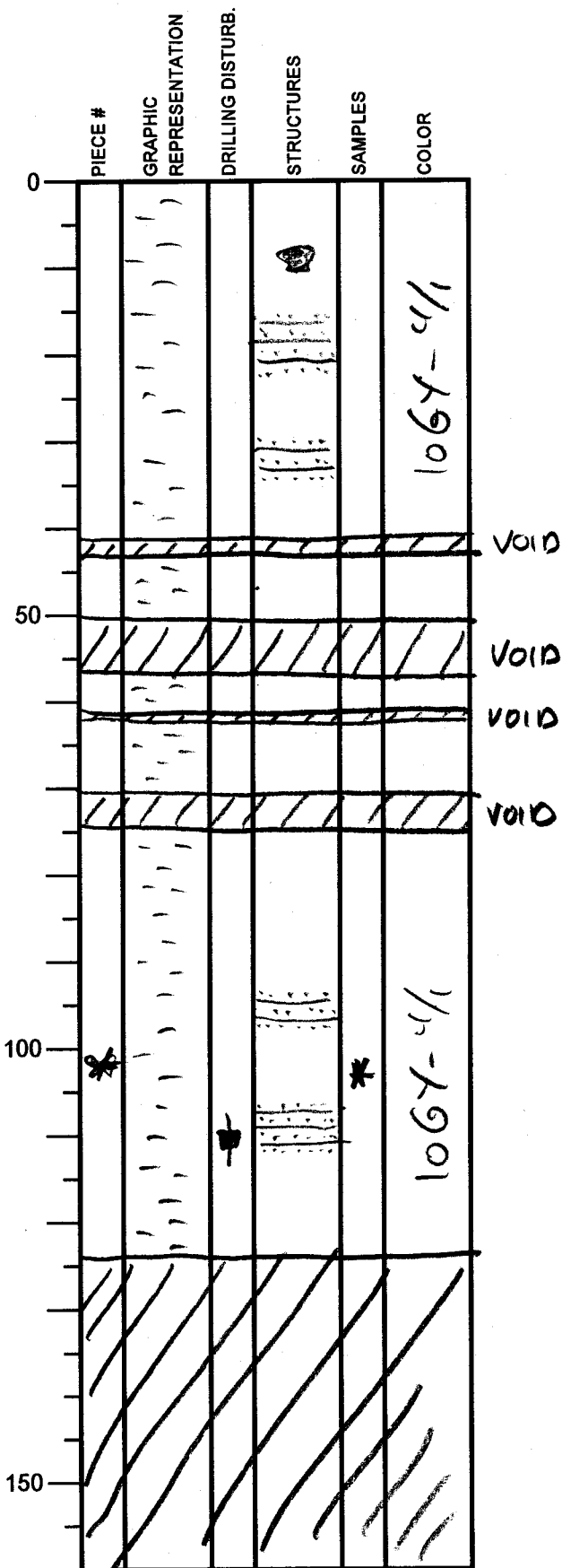
EOC = 67 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 97
 DATE: 12/11/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 1246
 SECTION: 2
 TOP DEPTH (m CSF): -4
 99.83 m
 OBSERVER: JCL.

SECTION DESCRIPTION



* Smear slide 102cm

Dark greenish gray clay
 comprising color mottling,
 banding throughout

⇒ Slightly bioturbated

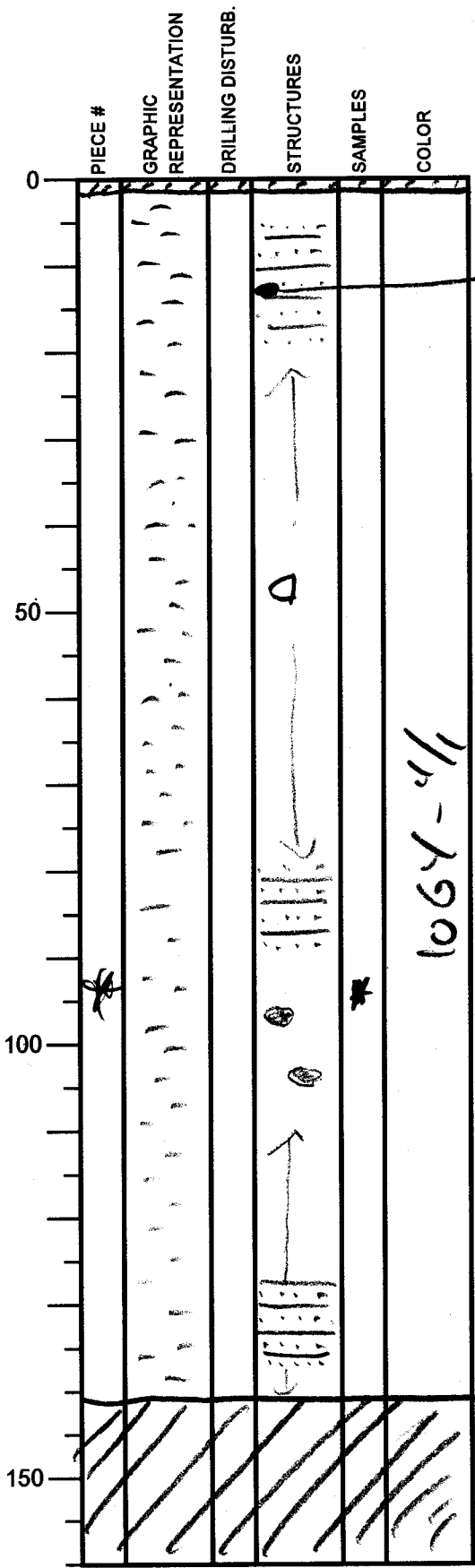
(SS = 102cm)

EOC = 123.5m

Integrated Ocean Drilling Program

Visual Core Description

NO. 98
 DATE: 12/20/00
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 12H
 SECTION: 3
 TOP DEPTH (m CSF): - 101.065 m
 OBSERVER: JAL.



SECTION DESCRIPTION

VOID

oversized clast at 14 cm

* Smear slide 94 cm

Patch of volcanic material at 47-49 cm

Dark greenish gray clay
 comprising color mottling/
 bedding throughout
 =>
 Slightly bioturbated

(* SS = 94 cm)

1064-11

EOC = 141 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 99
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 12H
 SECTION: 4
 TOP DEPTH (m CSF): 102.48m
 OBSERVER:

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0	*		*	*	106Y-4/1
50			VOID		VOID
100	/		VOID	VOID	106Y-4/1
150	/		VOID	VOID	106Y-4/1

SECTION DESCRIPTION

outsized clast ab-dc-f L.

(* Smear slide 7cm)

Dark greenish gray silty clay comprising color mottling and banding throughout

slightly - moderately bioturbated

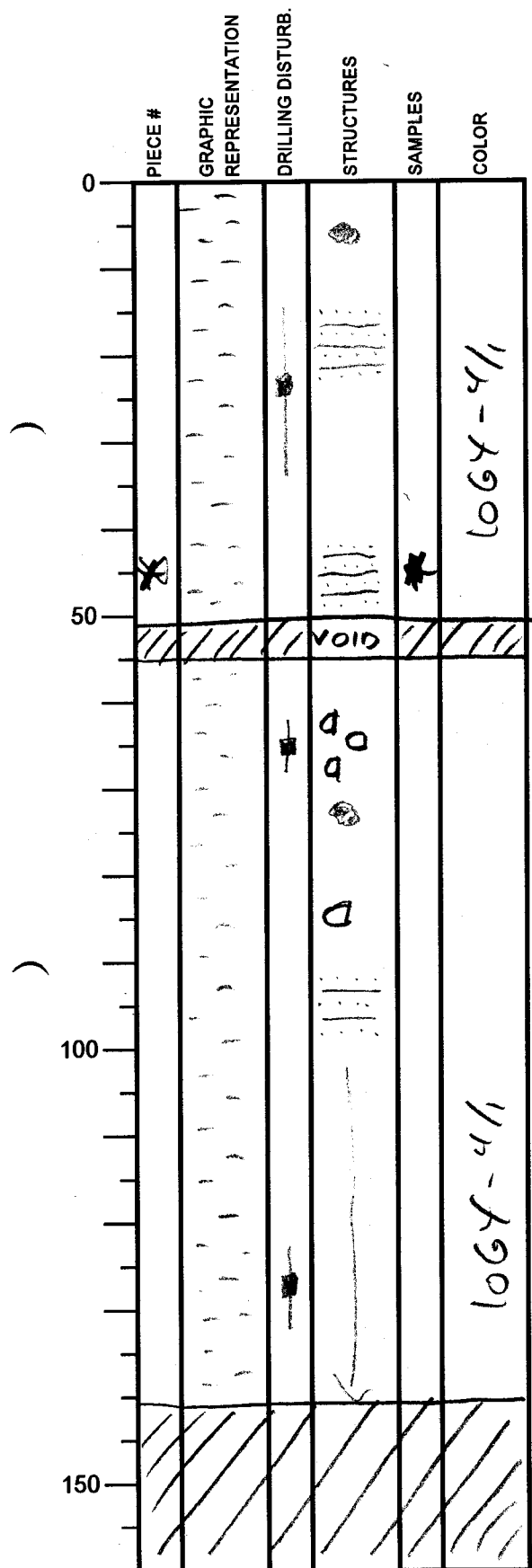
109.5 m

Integrated Ocean Drilling Program

Visual Core Description

NO. 100
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: 184
 CORE: 12H
 SECTION: 6
 TOP DEPTH (m CSF): ~~103.905~~
 103.905
 OBSERVER:

JAL.



SECTION DESCRIPTION

~~4/1~~ (Smear slide 45 cm)

Patches of volcanic material
~ 62 - 67 cm

Patches of volcanic material
~ 83 - 86 cm

Dark greenish gray silty clay consisting color mottling and banding throughout
⇒ slightly bioturbated

EOC = 141 cm

Integrated Ocean Drilling Program

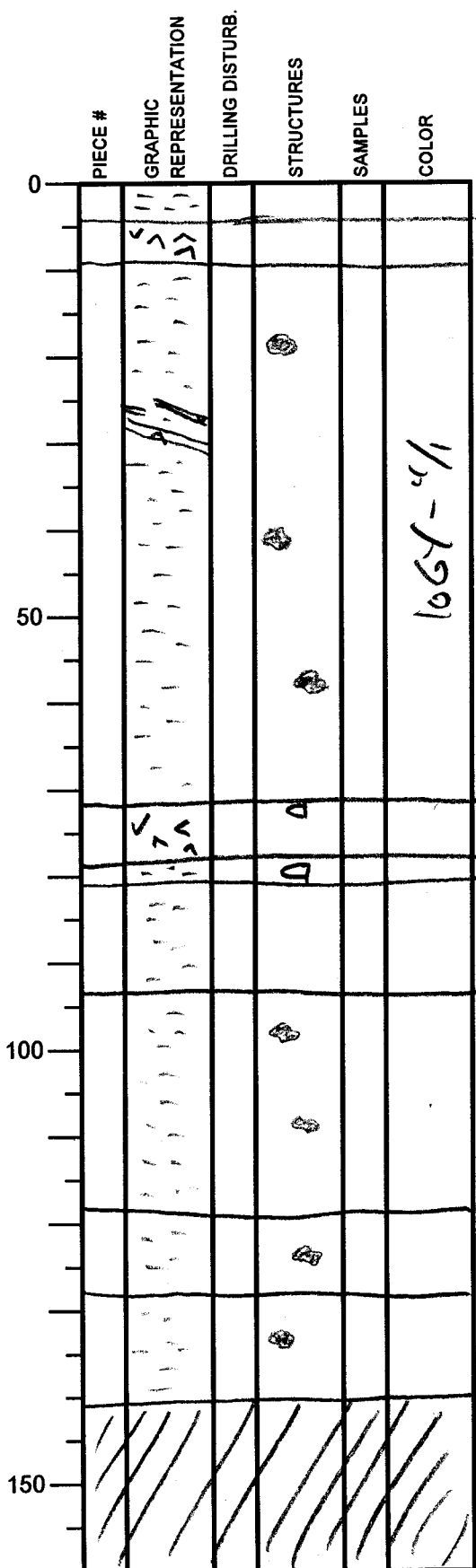
Visual Core Description

NO. 101
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: 184
 CORE: 12H
 SECTION: 7
 TOP DEPTH (m CSF): -A

105.32

OBSERVER: JAL

SECTION DESCRIPTION



Ash layer, greyish brown

Two thin ash layers, one faulted

106X-4/1

Patches of ash in the upper part
 Ash layer - light gray-gray
 sharp boundary
 Patches of volcanic material

VOID

VOID

VOID

VOID

Dark greenish gray silty clay composite color wavy throughout slightly disturbed. Interrupted by few ash layers

EOC = 141 cm

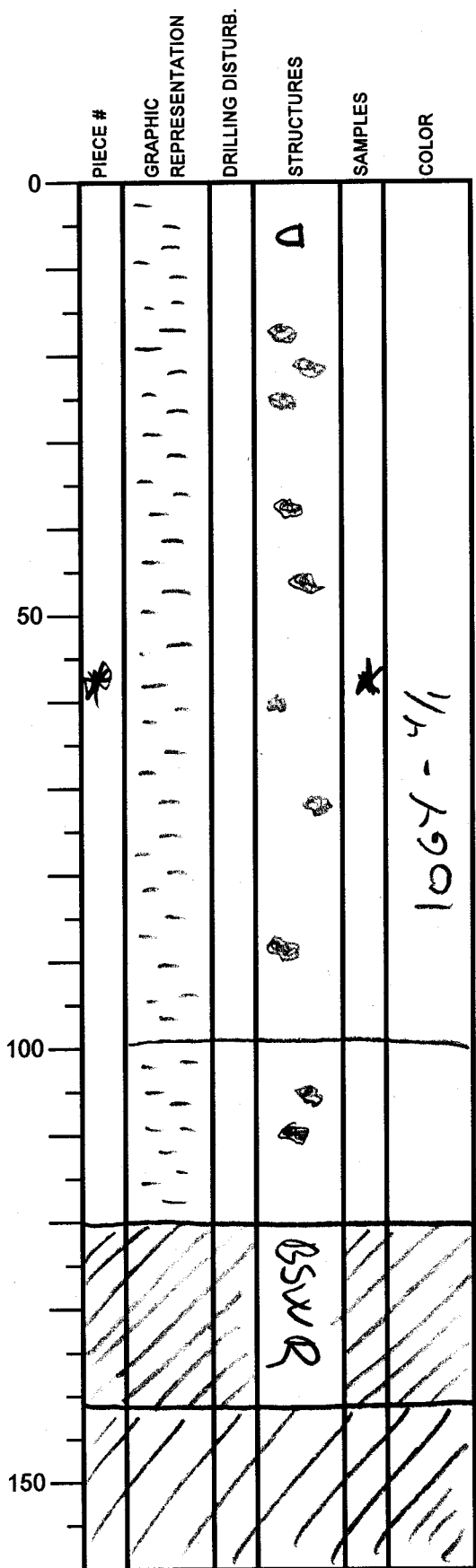
Integrated Ocean Drilling Program

Visual Core Description

NO. 102
 DATE: 7/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 12H
 SECTION: 8
 TOP DEPTH (m CSF): -A

106.735

OBSERVER: J. L.



Patch of volcanic material at ~6 cm

(Smear slide 57 cm)

106Y-4/1

VOID

Dark greenish gray silty clay/clay compaction; color not the; ⇒ moderately bioturbated

EOC = 141.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 103
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 124
 SECTION: 9
 TOP DEPTH (m CSF): -A
 108.15m

OBSERVER:

Jal

SECTION DESCRIPTION

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			H M O H		
50			△ ○ ●		106X-4/1
100			↑ △ △		
150					

Patches of ash ab - 37-38cm
 Thin ash layer ab - 39cm
 Outsized clast ab - 50cm and -58cm

Gray
 ↑
 Light gray Ash layer
 Patches of ash ab - 70-73cm

Dark greenish gray silty clay co-poss. faint color mottling
 ⇒ slightly bioturbated
 Co-poss. an ash layer and patches / thin layer of ash

EOC = 87 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 104
 DATE: 12/20/10
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 12H
 SECTION: CC
 TOP DEPTH (m CSF): ~~109.02~~

109.02

OBSERVER:

J.L.

SECTION DESCRIPTION

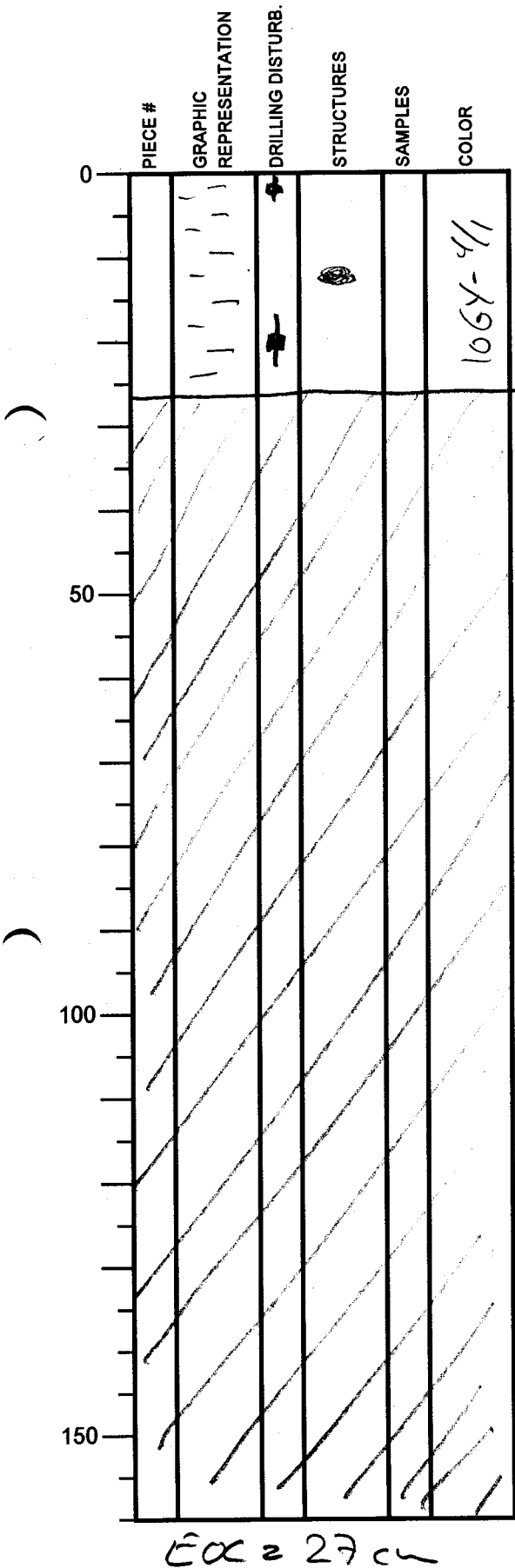
	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						10GY- 4/1
				PAL		10GY- 4/1
50						
100						
150						

EOC = 34.5 cm

Dark greenish gray silty clay comprising some faint color mottling; slightly waterbed

Integrated Ocean Drilling Program Visual Core Description

NO. 105
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 13H
 SECTION: 01-AA
 TOP DEPTH (m CSF): -A
 108.65
 OBSERVER: Jan L

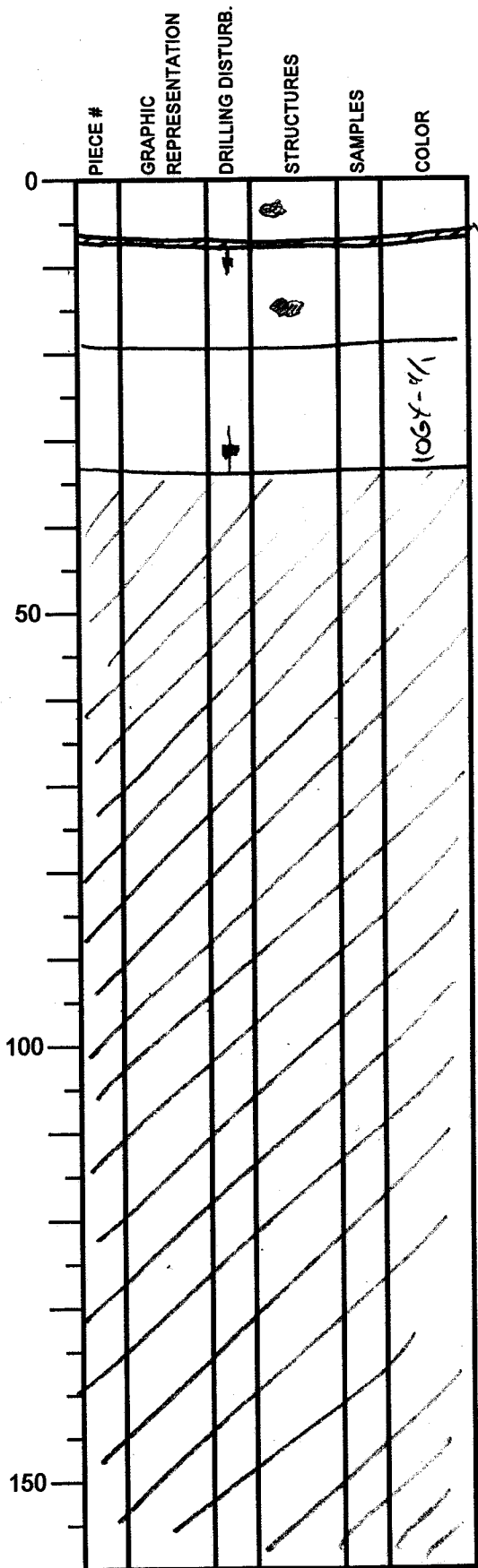


SECTION DESCRIPTION

Dark greenish gray silty
 clay with faint color
 mottling → slightly
 bioturbated

Integrated Ocean Drilling Program Visual Core Description

NO. 106
 DATE: 7/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 13M
 SECTION: 02-~~AA~~
 TOP DEPTH (m CSF): - ~~A~~
 108.925 m
 OBSERVER:



SECTION DESCRIPTION

Van Dark greenish gray silty
 clay with faint color
 mottling + slightly
 biofurbled

fa L.

EOC = 33 cm

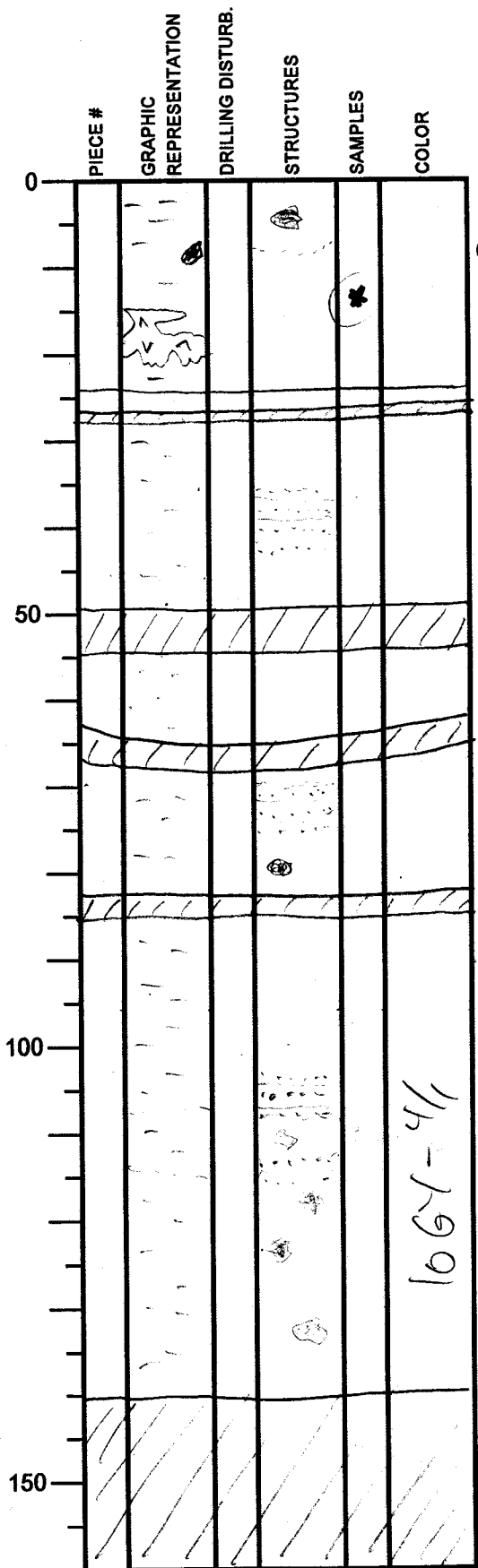
Integrated Ocean Drilling Program

Visual Core Description

NO. 107
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 13H
 SECTION: 03-AA
 TOP DEPTH (m CSF): -A

109.265m

OBSERVER: JAL



SECTION DESCRIPTION

Outsized clast at 9cm
 (SS = 1cm)
 Light gray ash layer 17-21cm
 VOID
 VOID

1061-411

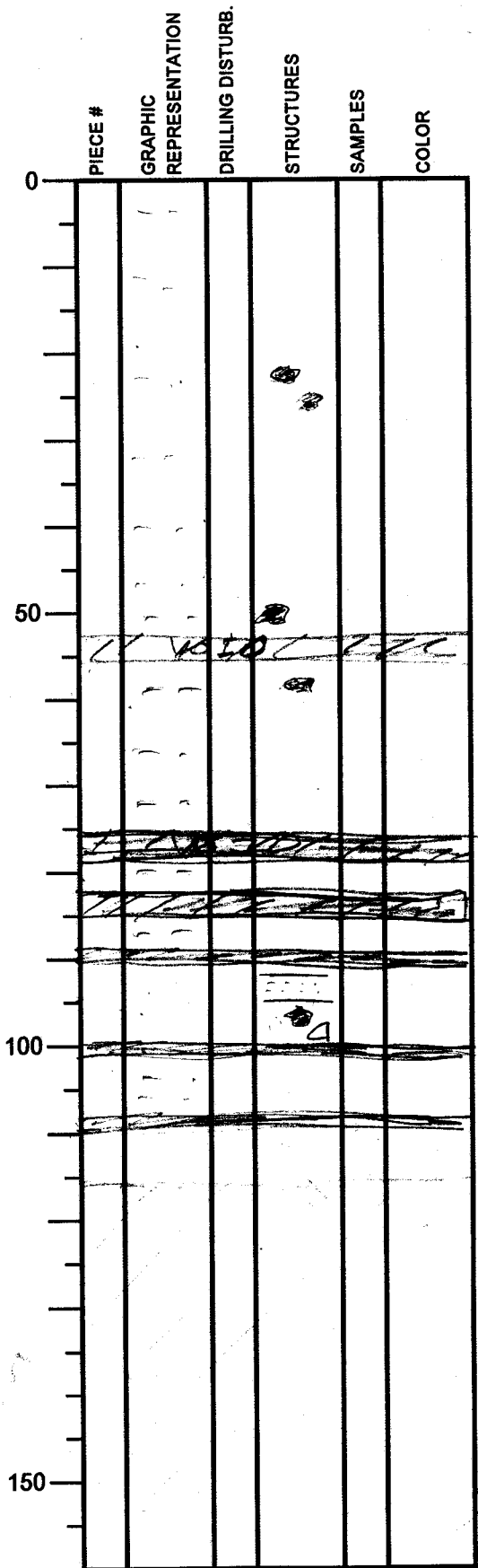
Color banding with no thick volcanic ash at the base

Dark greenish gray silty clay with faint color banding/mottling
 → moderately bioturbated

EOC = 141 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 108
 DATE: 7/21/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 1377
 SECTION: 04-~~AA~~
 TOP DEPTH (m CSF): ~~A~~
 110665
 OBSERVER: Koroy



SECTION DESCRIPTION

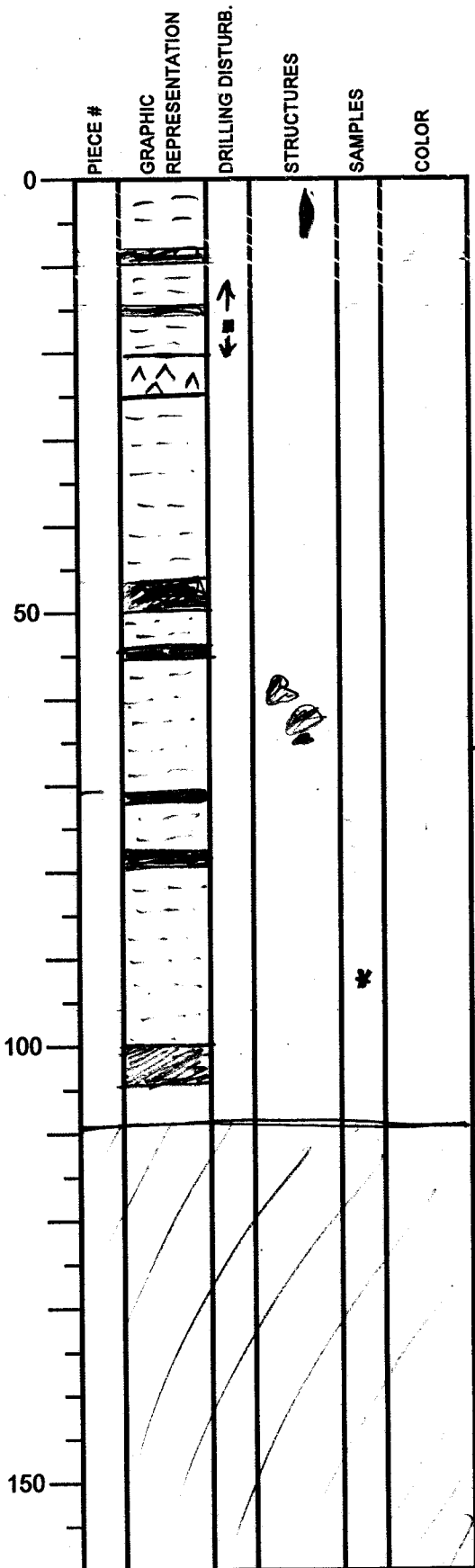
color mottling

a patch of volcanic ash

Dark greenish-gray silty clay,
 slightly bioturbated -
 patches of color mottling
 and
 color bandings

Integrated Ocean Drilling Program Visual Core Description

NO. 109
 DATE: 17/12/2010
 EXP.: 322
 SITE/HOLE: 18A
 CORE: 13H
 SECTION: 5
 TOP DEPTH (m CSF): 112.08 m CSF
 OBSERVER: Joroy



SECTION DESCRIPTION

patch of volcanic ash
 2-10 cm
 15-16 cm
 → voids
 → patch of volcanic material

- color mottling
 - patch of volcanic material

(SS = 92 cm)

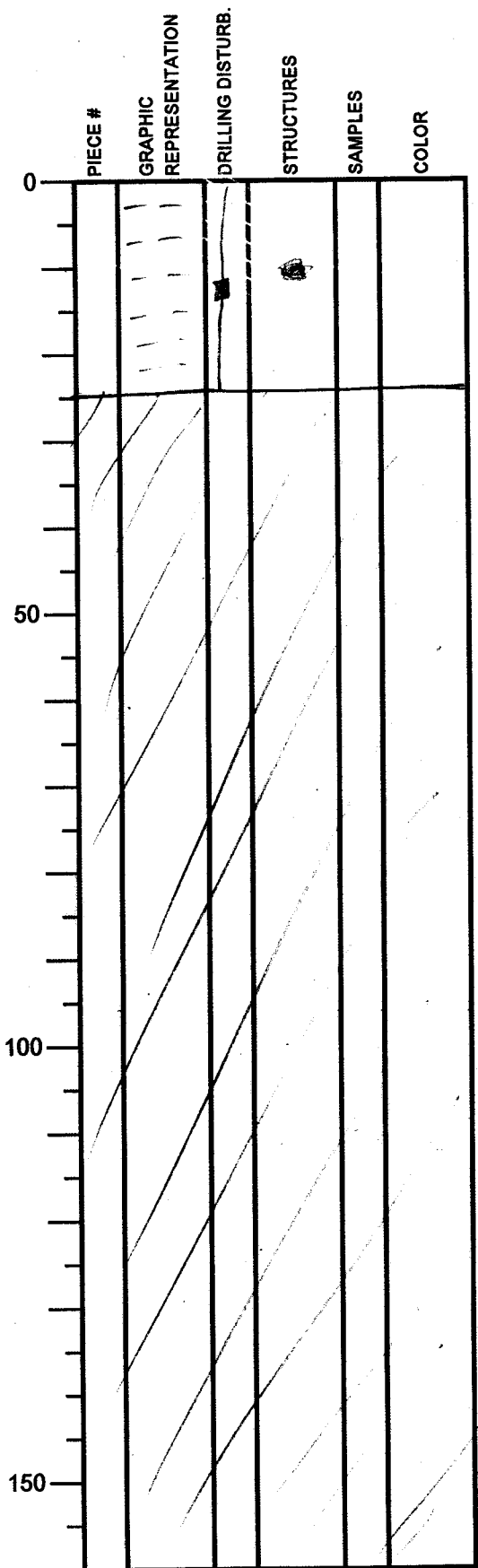
108 cm

Dark greenish gray silty clay
 slightly bioturbated
 patches of mottling and volcanic
 ashes.

Integrated Ocean Drilling Program

Visual Core Description

NO. 110
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 12H
 SECTION: 7
 TOP DEPTH (m CSF): 113.275 m CSF
 OBSERVER: Kroy



SECTION DESCRIPTION

(bestly start sample)

Dark greenish-gray silty clay,
slightly bioturbated

Integrated Ocean Drilling Program Visual Core Description

NO. 111
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 13H
 SECTION: 8
 TOP DEPTH (m CSF): 113,245
 m. CSF

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50			↔	↔		1/2-1/9/1
100						/
150						

SECTION DESCRIPTION

OBSERVER:

→ color bandings

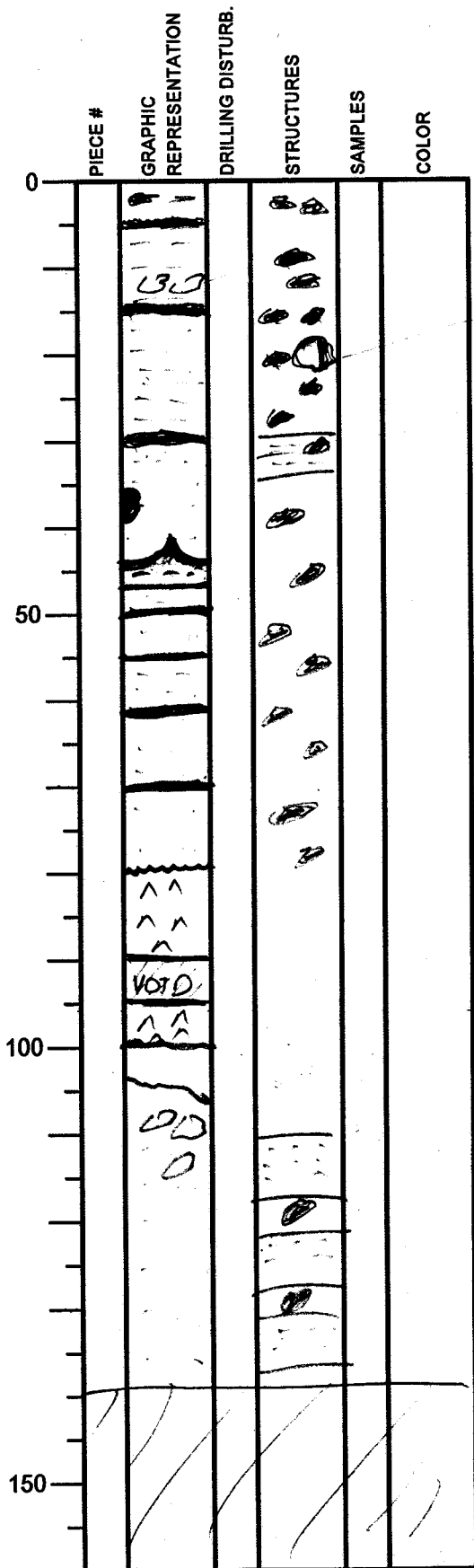
→ slightly bioturbated

→ → patched minor lithology

Rare
 Greenish-gray clay,
 pretty disturbed, biscuit
 faint mottling upper part
 color banding

Integrated Ocean Drilling Program Visual Core Description

NO. 112
 DATE: 17/12/20 10
 EXP.: 330
 SITE/HOLE: 18A
 CORE: 134
 SECTION: 9
 TOP DEPTH (m CSF): 114.425 m CSF
 OBSERVER: Jan-Koray



SECTION DESCRIPTION

→ patches of ash
 color mottlings
 → outsize clast
 very thin ~~sand~~ layers
 ash
 color banding

 9 ash layers some as
 ash interval ~ 8-110 cm

 * patches of ash
 color mottlings

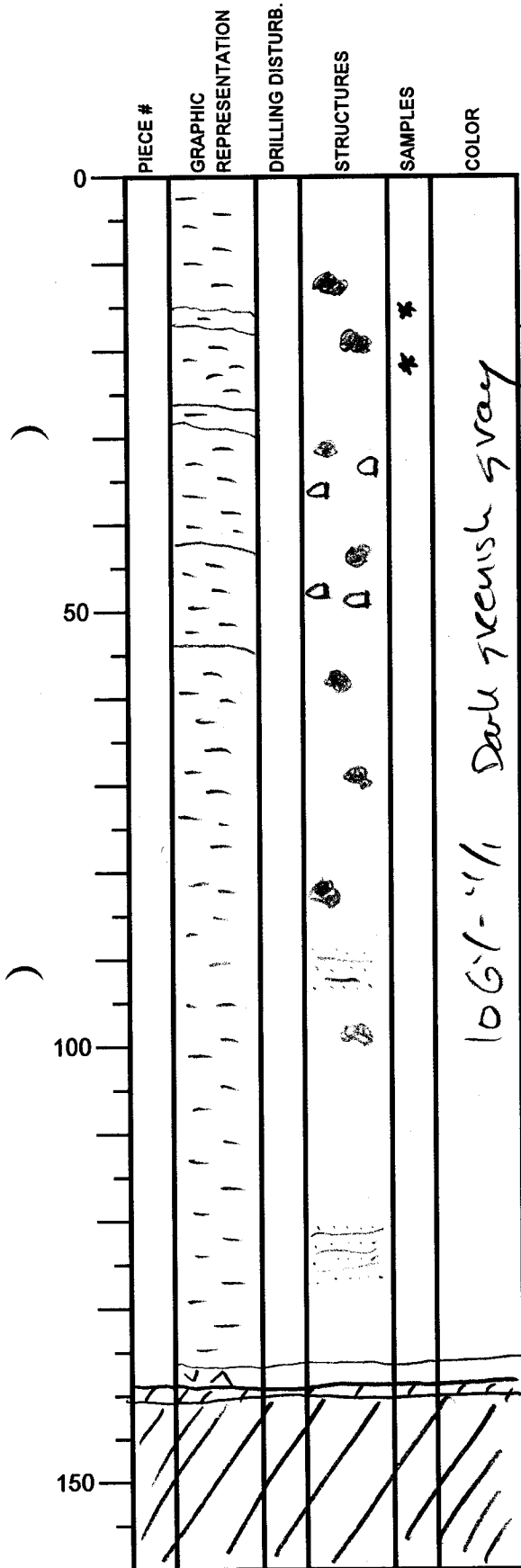
 Dark greenish gray silty clay
 One ash layer greenish - light gray

Integrated Ocean Drilling Program

Visual Core Description

NO. 113
 DATE: 11/20/10
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 13M
 SECTION: 10
 TOP DEPTH (m CSF): -A
 115.82 m
 OBSERVER: J. L.

SECTION DESCRIPTION



(SS = 14 cm)
 (SS = 20 cm)

Several thin ash layers

Dark greenish gray clay
 with color mottling indicating
 slight-to-moderate bioturbation
 Several thin ash layers and
 levels of patches of ash

Ash layer
VOID

EOC = 140.5 cm

Integrated Ocean Drilling Program

Visual Core Description

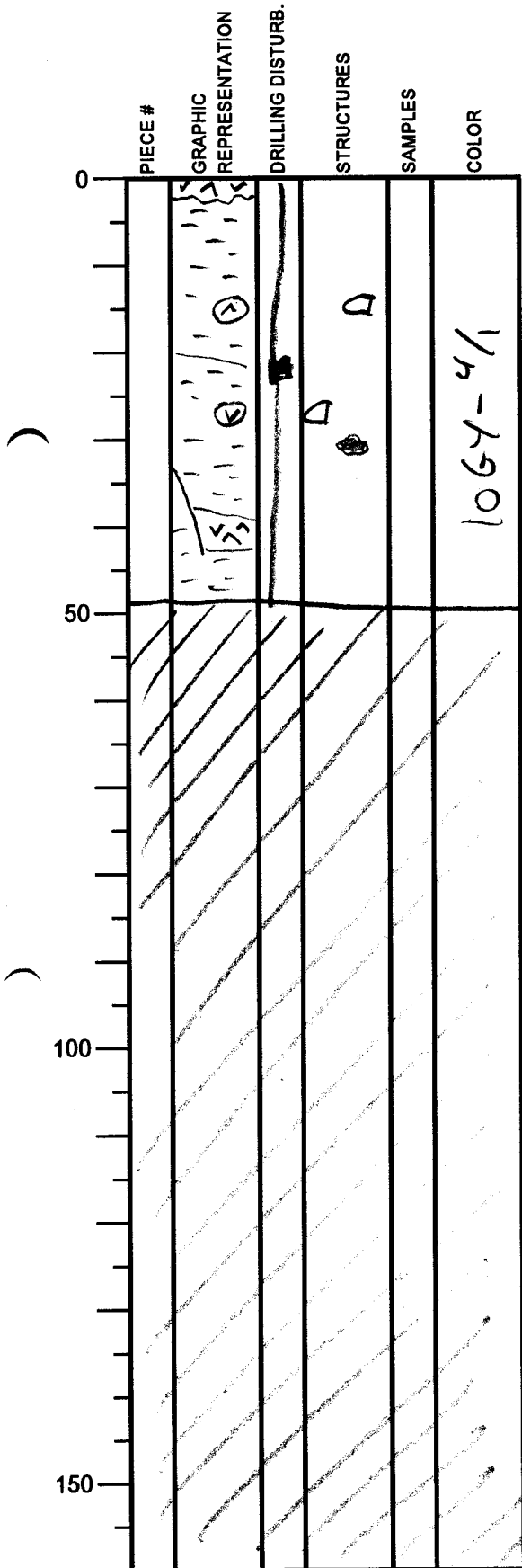
NO. 114
 DATE: 7/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 13H
 SECTION: 11
 TOP DEPTH (m CSF): - *

SECTION DESCRIPTION

17.23m

OBSERVER:

J. C.



Disturbed dark greenish gray clay with some color mottling, layers and patches of ash.

- moderately disturbed

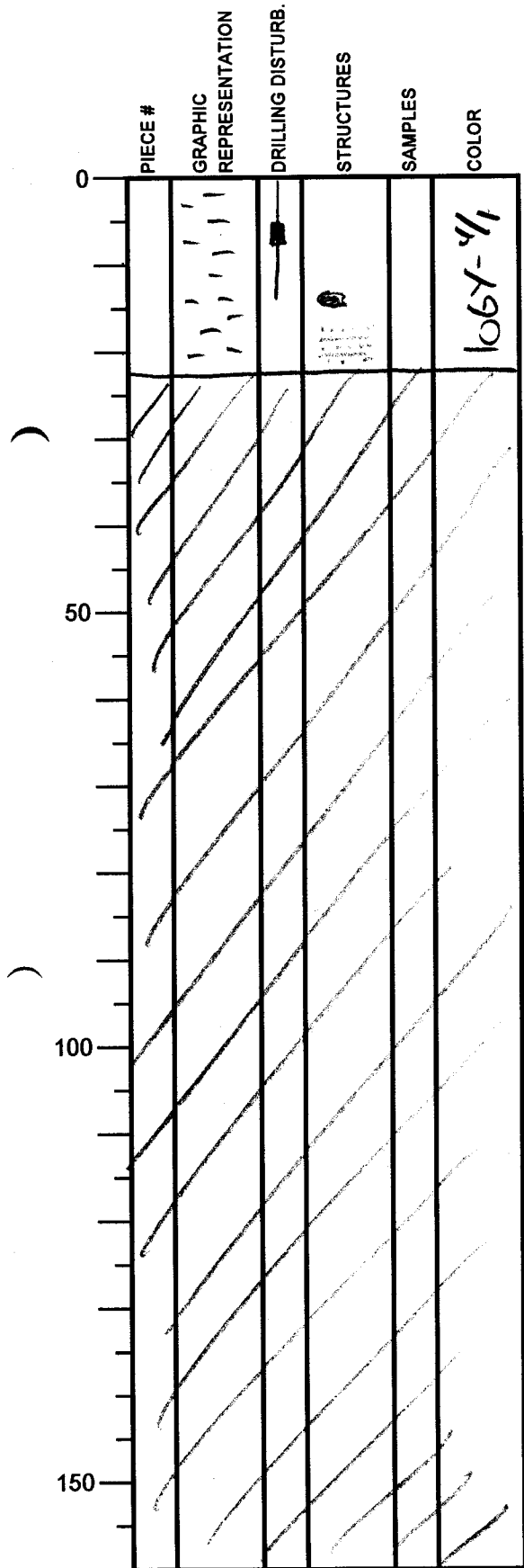
EOC = 49 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 115
 DATE: 12/2/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 13H
 SECTION: 12
 TOP DEPTH (m CSF): ~~117.72~~
 117.72 m
 OBSERVER: JAL

SECTION DESCRIPTION

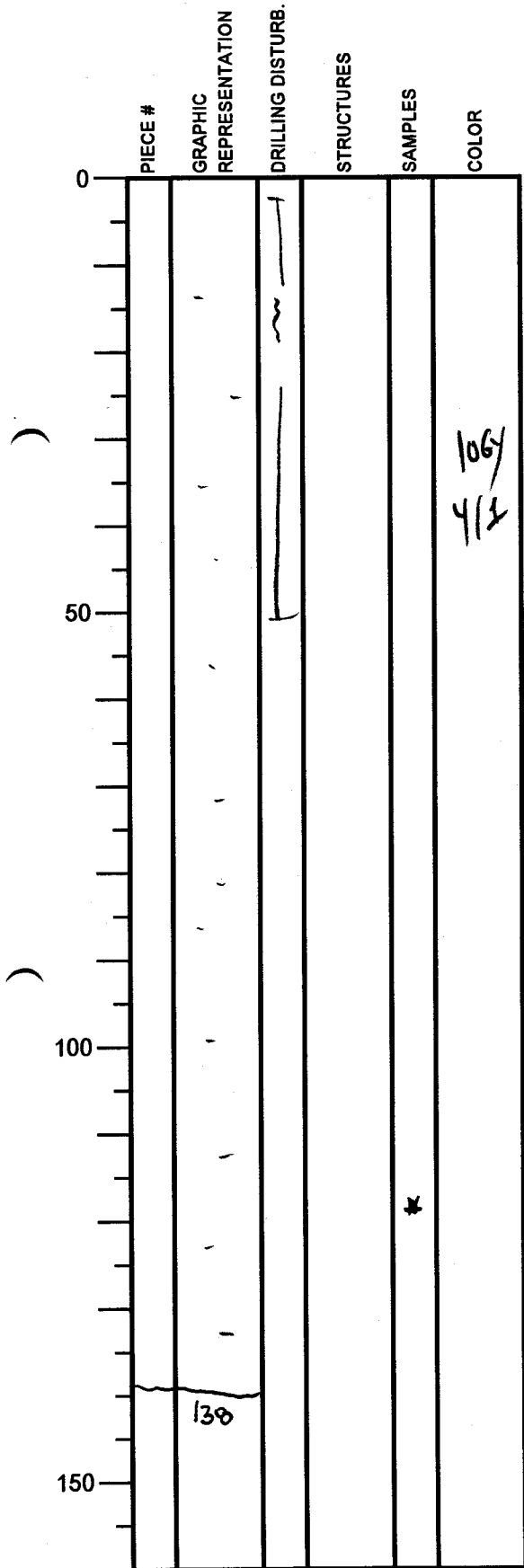


Dark greenish gray clay with
 some color mottling
 Moderately bioturbated

EOC = 22.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 116
 DATE: 7/14/20 10
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 13H
 SECTION: 13
 TOP DEPTH (m CSF): -9
 117.95
 OBSERVER: T. ANNES



SECTION DESCRIPTION

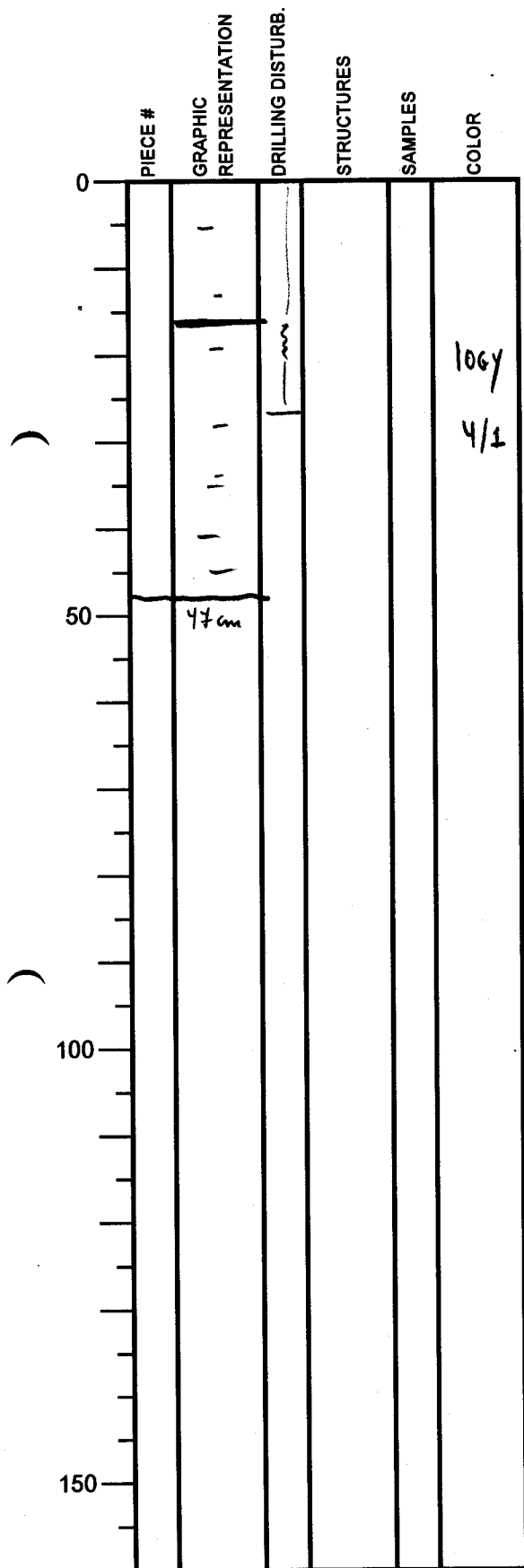
Silty clay, mottled

* (SS = 118.5cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 114
 DATE: 17/10/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 13H
 SECTION: M
 TOP DEPTH (m CSF): 119.35 m



SECTION DESCRIPTION

OBSERVER: T. PUES

→ 0.2 cm volcanic ash (N3)
 silty clay, mottled

Integrated Ocean Drilling Program

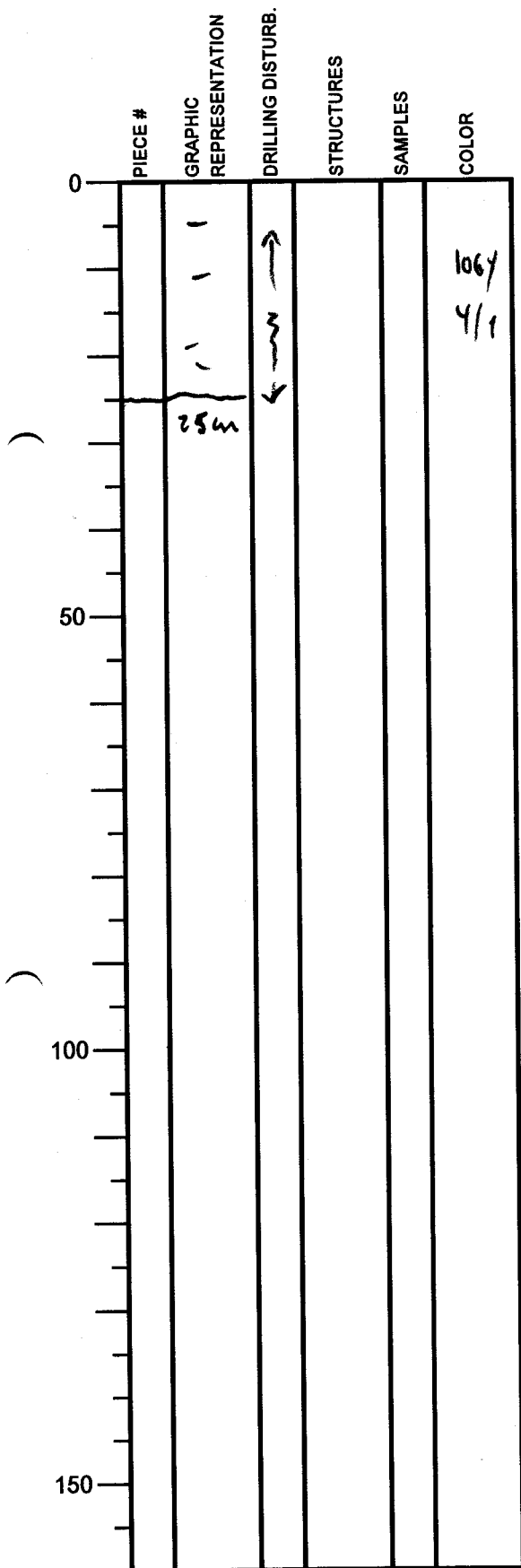
Visual Core Description

NO. 118
 DATE: 7/12/2010
 EXP.: 333
 SITE/HOLE: 18A
 CORE: 134
 SECTION: CC
 TOP DEPTH (m CSF): 119.83

SECTION DESCRIPTION

OBSERVER: T. Alves

Silty clay, homogeneous



Integrated Ocean Drilling Program

Visual Core Description

NO. 119
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 14H
 SECTION: 01-AA
 TOP DEPTH (m CSF): 118.15 m

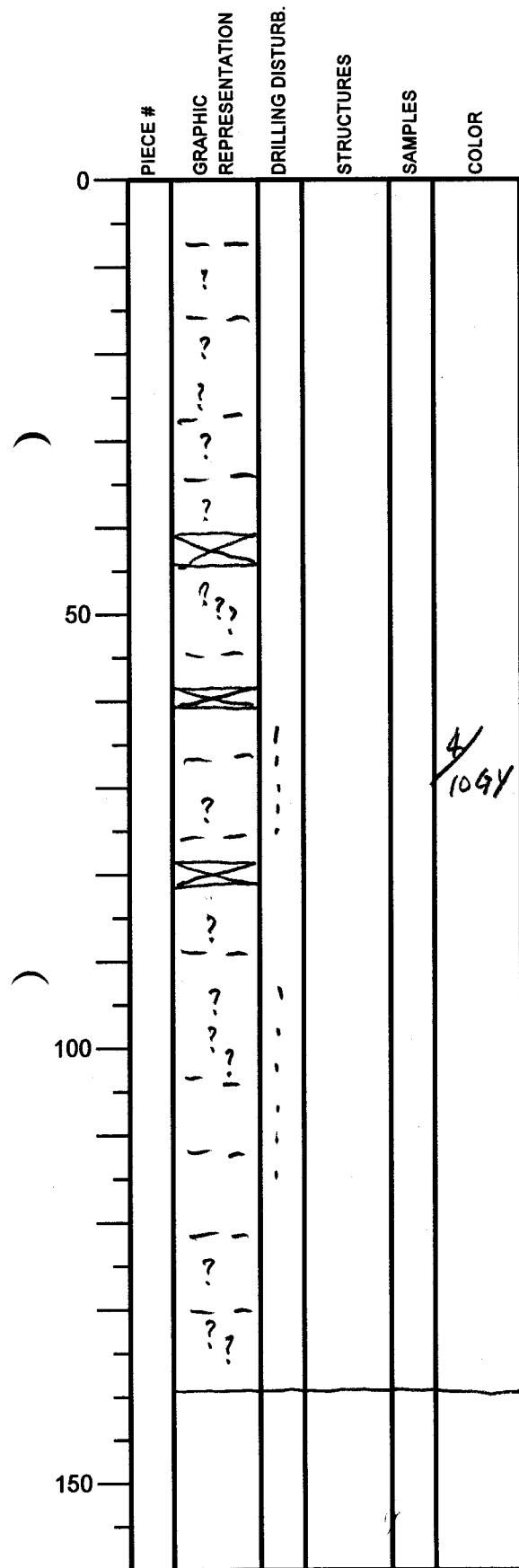
OBSERVER: S. Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0					4/ 10GY	Silty clay
						EOC = 20cm
50							
100							
150							

Integrated Ocean Drilling Program

Visual Core Description

NO. 120
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 14H
 SECTION: O2-AA
 TOP DEPTH (m CSF): 118.355m



SECTION DESCRIPTION

OBSERVER: S. Gas

Silty clay; volcanic ash throughout the core, e.g. at 12, 20, 24-26, 31, 38.5, 47-48, 49, 50, 51, 53, 73-74, 87-88, 95, 99, 101, 103, 125-127, 133 and 134.5 cm. Some deformationⁱⁿ, e.g. 18-41 cm, 45-58 cm and 85-88 cm sections, with color changes.

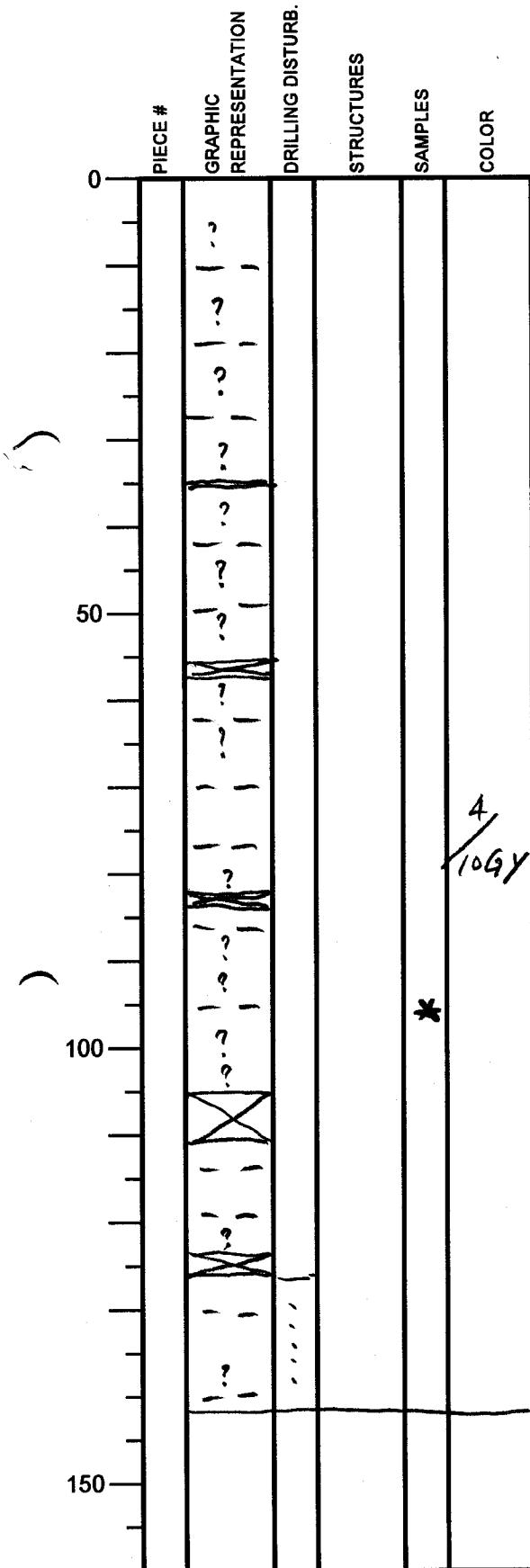
E o C = 139 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 121
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 14H
 SECTION: 03-AA
 TOP DEPTH (m CSF): 119.75

OBSERVER: S. Gao



SECTION DESCRIPTION

Silty clay,
 with ash at
 6.5, 15.5, 23.5, 32,
 39, 45, 52, 59, 65.5,
 81.5, 89, 92, 93, 100,
 104, 123, and 138 cm.
 Deformation patterns
 occur throughout the
 core, at eg. 19-22,
 46-51, 65-79, 88-105,
 113-123, and 128-131 cm.

4 / 106Y

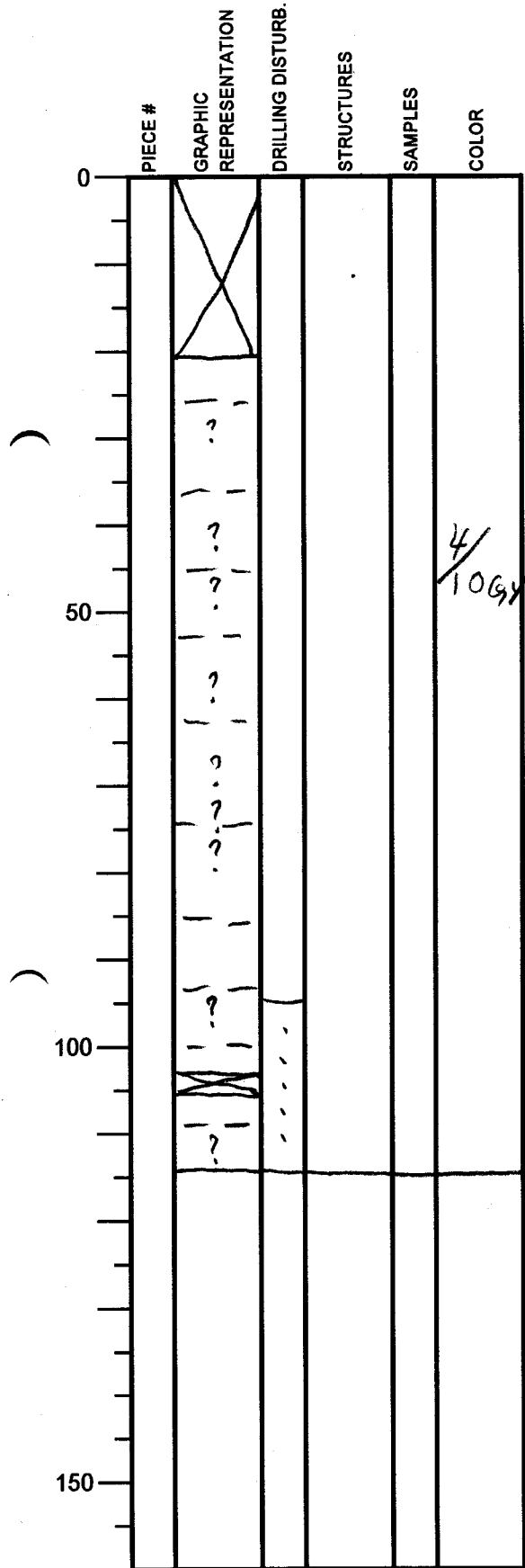
*(SS = 93 cm)

EOC = 142 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 122
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 14H
 SECTION: 04-AA
 TOP DEPTH (m CSF): 121.175



SECTION DESCRIPTION

OBSERVER: S. Gas

Silty clay, ash
 at eg. 28, 29, 43,
 46-47, 48, 50, 51.5,
 58, 59, 67.5, 70.5,
 73.5-74.5, 76, 77-78,
 80.5, 97, 110 and 113 cm.
 Patchiness (deformation)
 in color throughout the
 core, notably in 37-85
 and 108-114 cm.

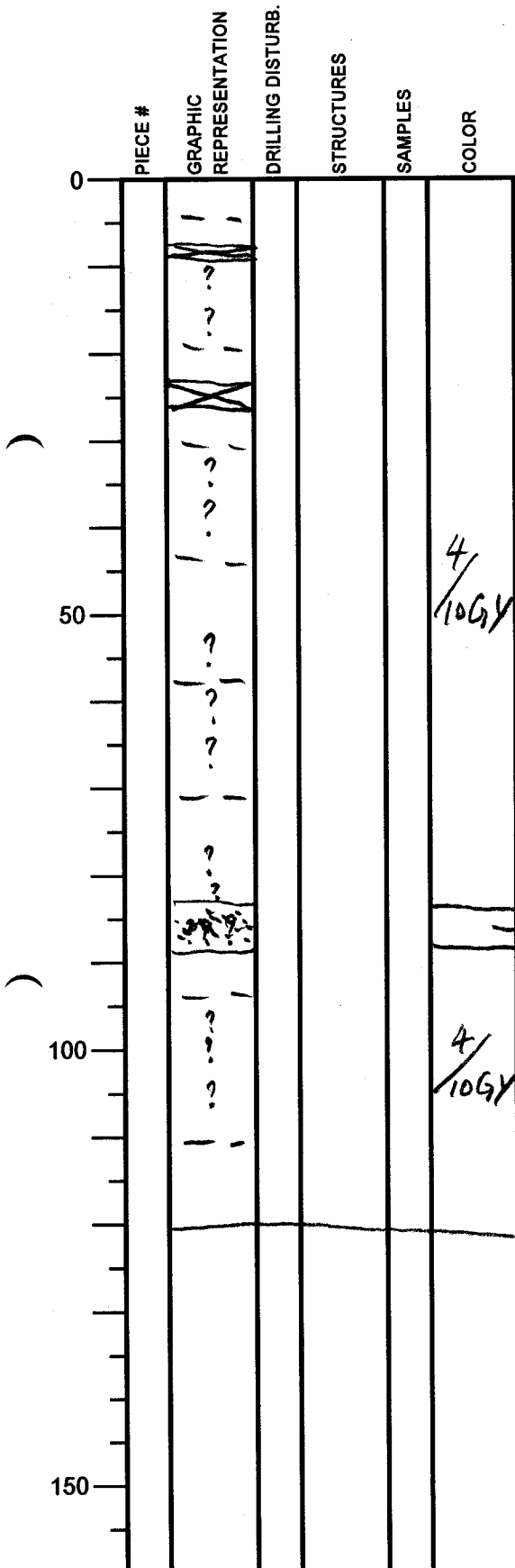
Integrated Ocean Drilling Program

Visual Core Description

NO. 123
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 14H
 SECTION: 06-AA
 TOP DEPTH (m CSF): 122.655

SECTION DESCRIPTION

OBSERVER: S. Gao



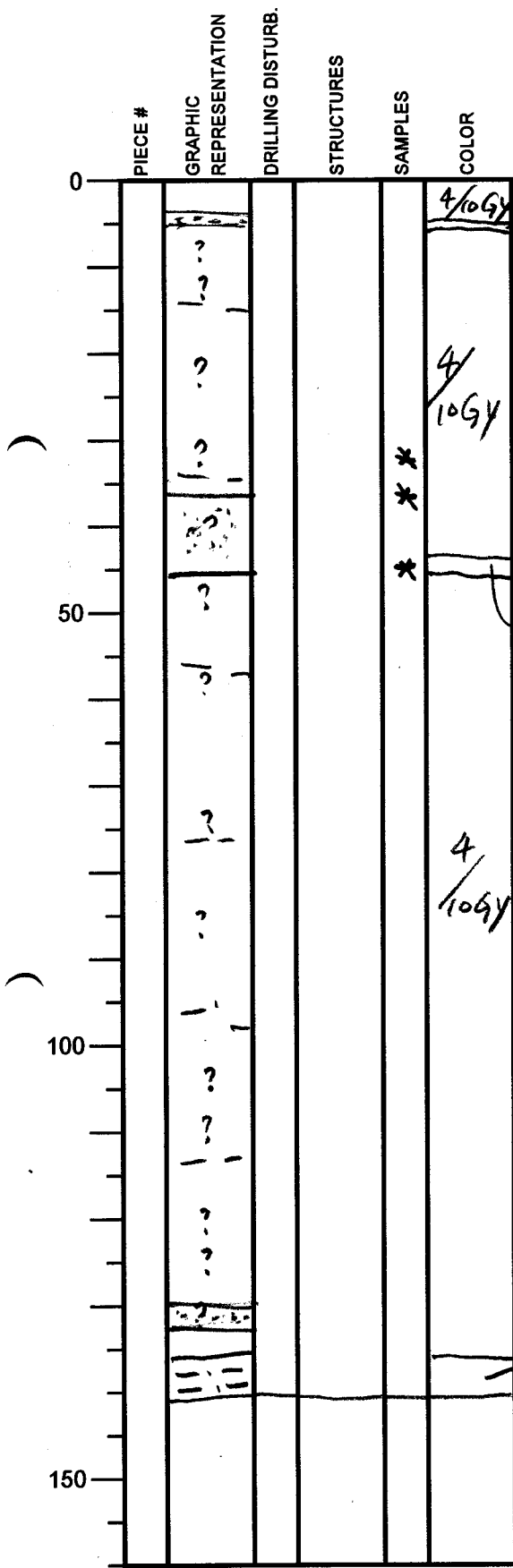
Silty clay, ash at
 10, 16-17, 18, 34, 36,
 37, 40, 42, 43.5, 55,
 61, 62, 67, 68.5, 77, 83,
 97, 101, 105.5 cm; a thick
 ash layer at 83.5-88.5 cm.
 Patchiness in color occurs,
 notably in 34-83 cm.

Integrated Ocean Drilling Program

Visual Core Description

NO. 124
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 1414
 SECTION: 07-AA
 TOP DEPTH (m CSF): 124.095

OBSERVER: S. Gao



SECTION DESCRIPTION

4/10 Gy
 8/10 Gy silty clay; ash or sandy materials layers at 3.5-4 cm, 40.5-42 cm, 43.5-46 cm, and 131-133 cm
 * * *
 - SS = 33 cm
 - SS = 36 cm; ash scattering
 - SS = 46 cm
 at eg 9-12.5, 22-23, 29, 44, 54.5, 57, 76-78, 87, 99, 104, 109, 117, 119-120, 124.5, 127, and 134 cm. Patchiness in color in 13-39 cm, 46-129 cm.

Below 136.5 cm, silty materials.

SS = 33 cm → light grey dust

SS = 36 cm — Background hemipelagic

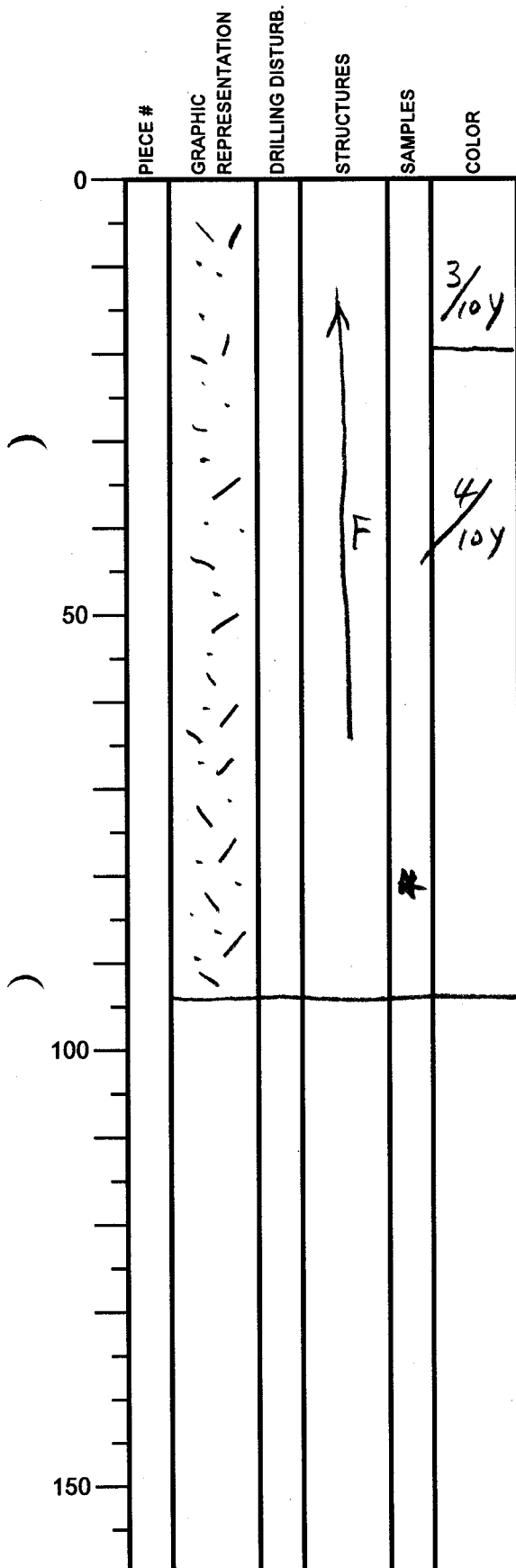
SS = 46 cm — bleached sand

5/10 Gy
 EOC = 141 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 125
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 14H
 SECTION: 08-AA
 TOP DEPTH (m CSF): 125.51



SECTION DESCRIPTION

OBSERVER: S. Gao

Sand sized
 materials,
 significant fining
 upward trend.
 Layered features
 at 36-49cm.

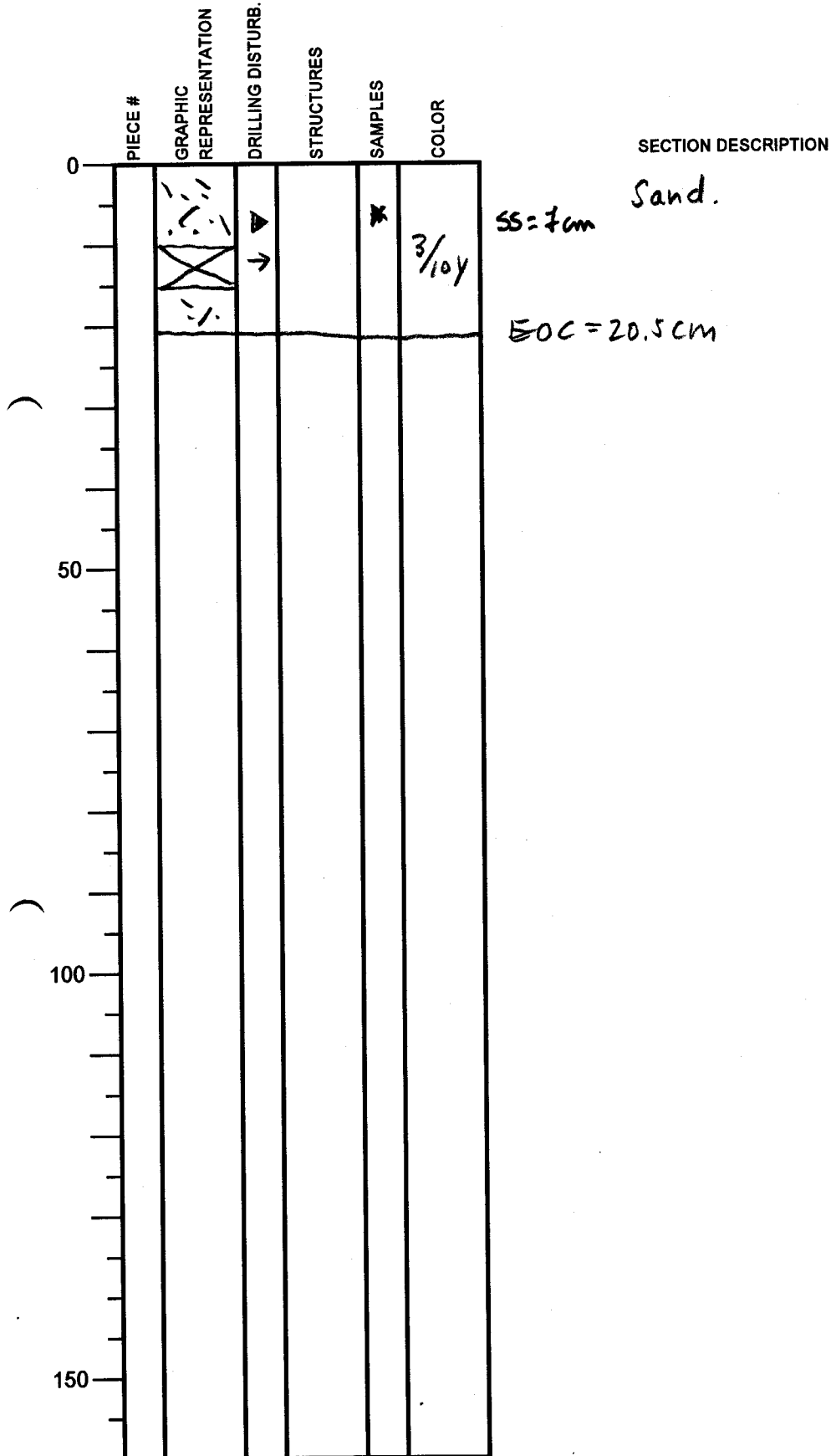
SS = 77 um

EOC = 93.5 cm

Integrated Ocean Drilling Program Visual Core Description



NO. 126
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 14H
 SECTION: CC-AA
 TOP DEPTH (m CSF): 126.45

OBSERVER: S. Gao



Integrated Ocean Drilling Program Visual Core Description

NO. 127
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: Coo18A
 CORE: 15H
 SECTION: 2
 TOP DEPTH (m CSF): 126.65m

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						106y 4/2
50		10cm				
100						
150						

SECTION DESCRIPTION

10 cm of mty clay.
 homogeneous

OBSERVER: T. ALVES

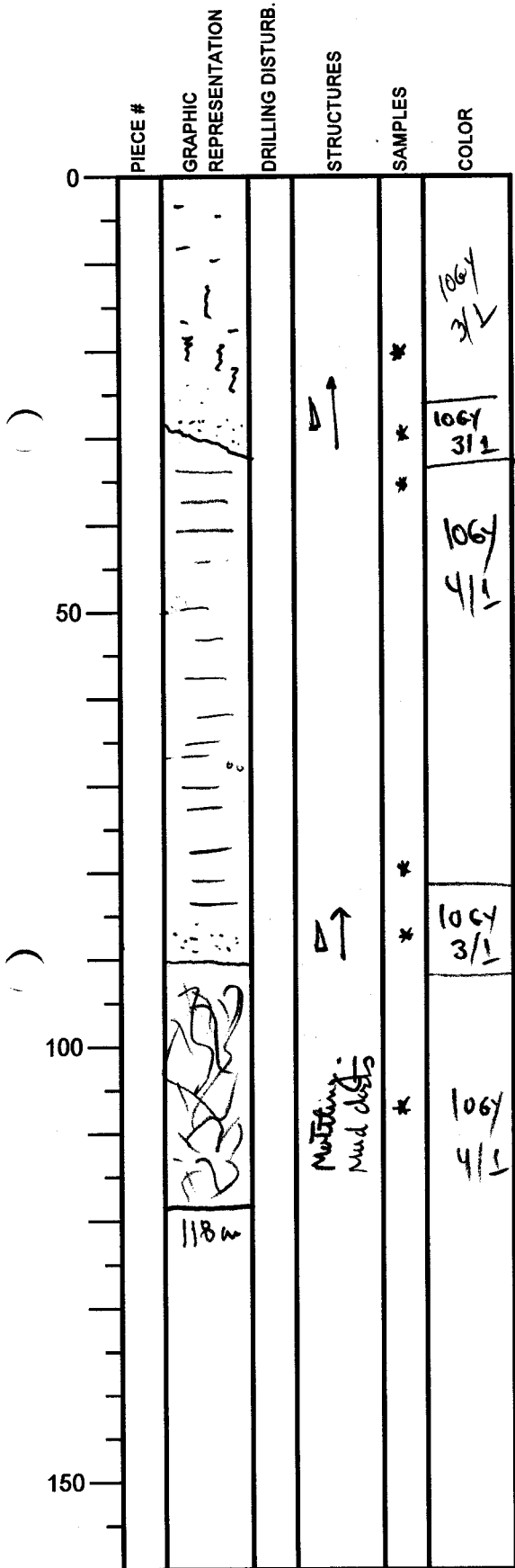
Integrated Ocean Drilling Program

Visual Core Description

NO. 128
 DATE: 11/12/2016
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 15H
 SECTION: 2
 TOP DEPTH (m CSF): 126.75m

OBSERVER: T. AWES

SECTION DESCRIPTION



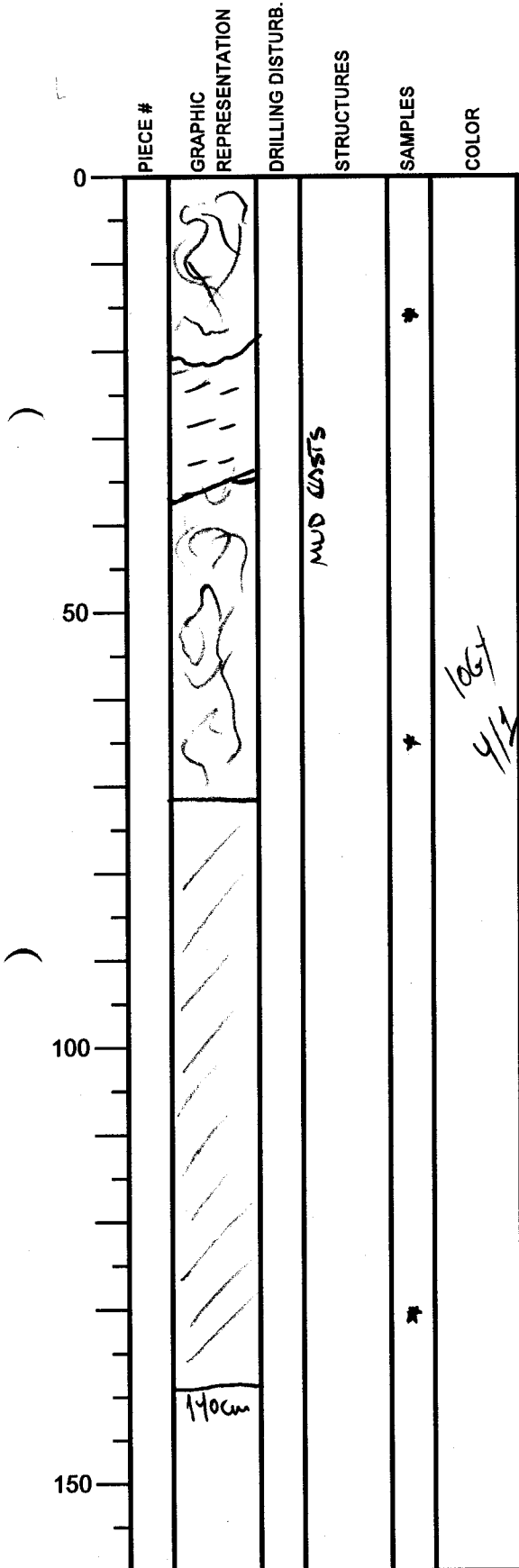
Integrated Ocean Drilling Program

Visual Core Description

NO. 129
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 15H
 SECTION: 3
 TOP DEPTH (m CSF): 127.94 cm

SECTION DESCRIPTION

OBSERVER: T. AWES



SS = 16 cm (debrute!)

Debrute. Clay to silty clay.

Block of undisturbed strata between
 22 cm and 47 cm. Sharp disturbed
 here.

SS = 64 cm (debrute)

Clay. Bedding 20-40° to the horizontal.

SS = 130 cm (Tilted strata/laminar)

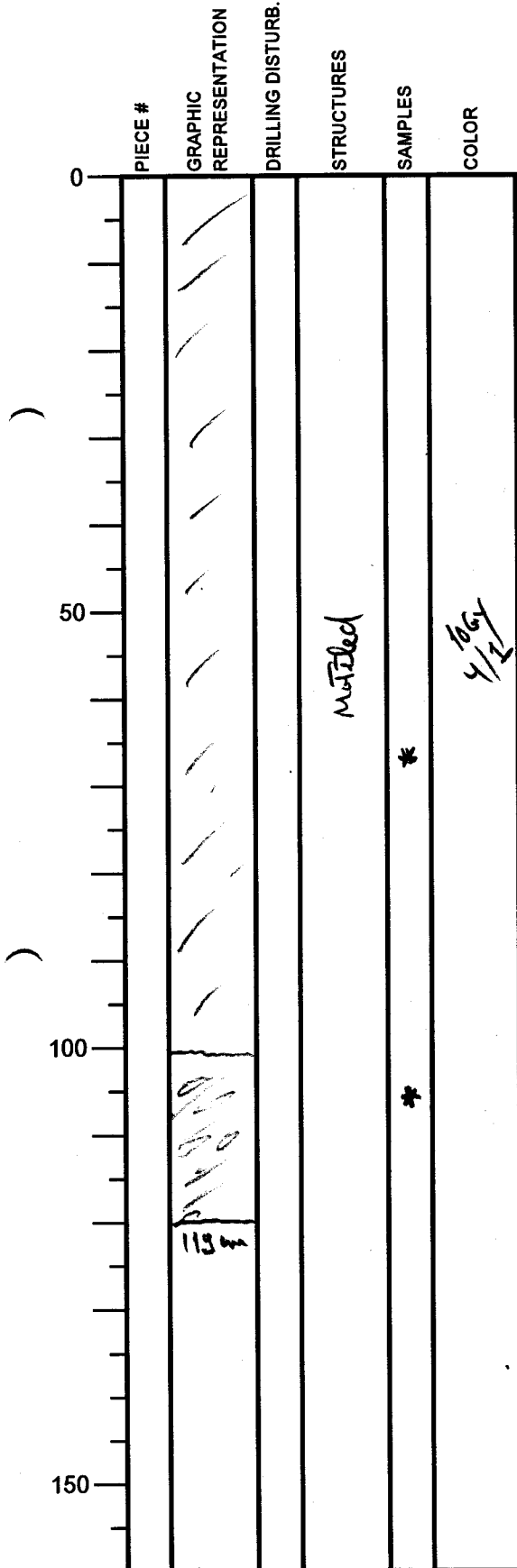
Integrated Ocean Drilling Program

Visual Core Description

NO. 130
 DATE: 12/2010
 EXP.: 333
 SITE/HOLE: COO1BA
 CORE: 15H
 SECTION: 4
 TOP DEPTH (m CSF): 129.36m

SECTION DESCRIPTION

OBSERVER: T. Alvey



Clay to silty clay. Bedding / laminations
 30-40° to the horizontal.

SS = 65 cm (Tilted strata / laminae)

Mottling by volcanic ash -
 SS = 104 cm - silty (ash) sand.

Integrated Ocean Drilling Program

Visual Core Description

NO. 131
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: *cod8A*
 CORE: 15H
 SECTION: 6
 TOP DEPTH (m CSF): 130.785m

SECTION DESCRIPTION

OBSERVER:

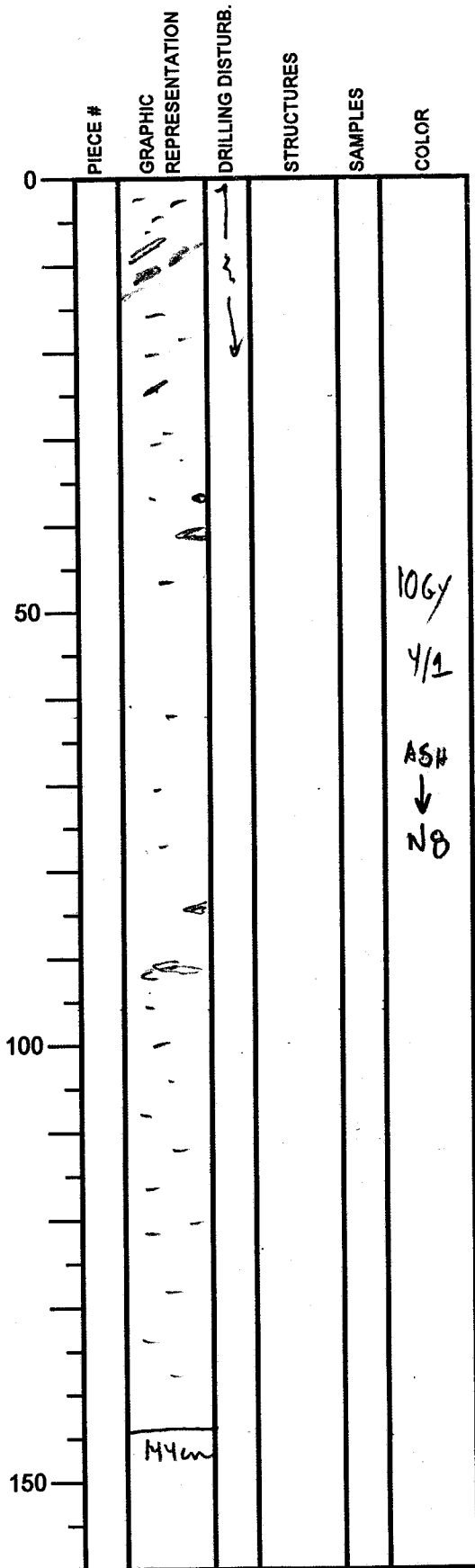
	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50			<i>N6</i>	<i>Nothing</i>	*	<i>1064</i> <i>4/1</i>
100						
150			<i>N6</i>	<i>Nothing</i>	*	<i>147cm</i>

clay to milky clay. Mottled by patches of volcanic ash. Sand between 44 cm and 69 cm
 SS = 60 cm - volcanic sand

SS = 115 cm (milky clay)

Integrated Ocean Drilling Program Visual Core Description

NO. 132
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: Coo18A
 CORE: 75N
 SECTION: 7
 TOP DEPTH (m CSF): 132.235m



SECTION DESCRIPTION

Silty clay, mottled by
color dust.

OBSERVER: T. Day

Integrated Ocean Drilling Program

Visual Core Description

NO. 138
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: Co18A
 CORE: 15H
 SECTION: B
 TOP DEPTH (m CSF): 133.675m

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0)				
50)		MOTTLED BY MCH		
100)		MUD CLASTS		
150)		MUD CLAST		
)		{ }		
)		MCH		

SECTION DESCRIPTION

MOTTLED

Silty clay

(Bioturbation)

OBSERVER: T. AWES

Integrated Ocean Drilling Program Visual Core Description

NO. 134
 DATE: 12 / 2010
 EXP.: 333
 SITE/HOLE: CO18A
 CORE: 15H
 SECTION: 9
 TOP DEPTH (m CSF): 135.105 m

OBSERVER: T. Ahn

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
	o				
50	o				1067 4/L
	(wavy lines)			*	
	(wavy lines)			*	1067 5/L
100	(wavy lines)				
	(wavy lines)		(ASK UF)		1067 4/L
135 cm					
150					

SECTION DESCRIPTION

Mottled silty clay

Consolidated bedding (SS = 73 cm) → above boundary A
 SS = 83 cm (below boundary A)
 Consolidated bedding

Integrated Ocean Drilling Program

Visual Core Description

NO. 135
 DATE: 4/12/2010
 EXP.: 333
 SITE/HOLE: COOL8A
 CORE: 154
 SECTION: 10
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: T. ALKES

Silty clay. 30 cm flowed in core.

Integrated Ocean Drilling Program Visual Core Description

NO. 136
 DATE: 12/20/00
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 15H
 SECTION: 11
 TOP DEPTH (m CSF):

OBSERVER: J. MUES

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						10G
						4/1
50						
100						
150						

SECTION DESCRIPTION

34 cm of flowed in mud.

Integrated Ocean Drilling Program

Visual Core Description

NO. 137
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: 09018A
 CORE: 15H
 SECTION: CC
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

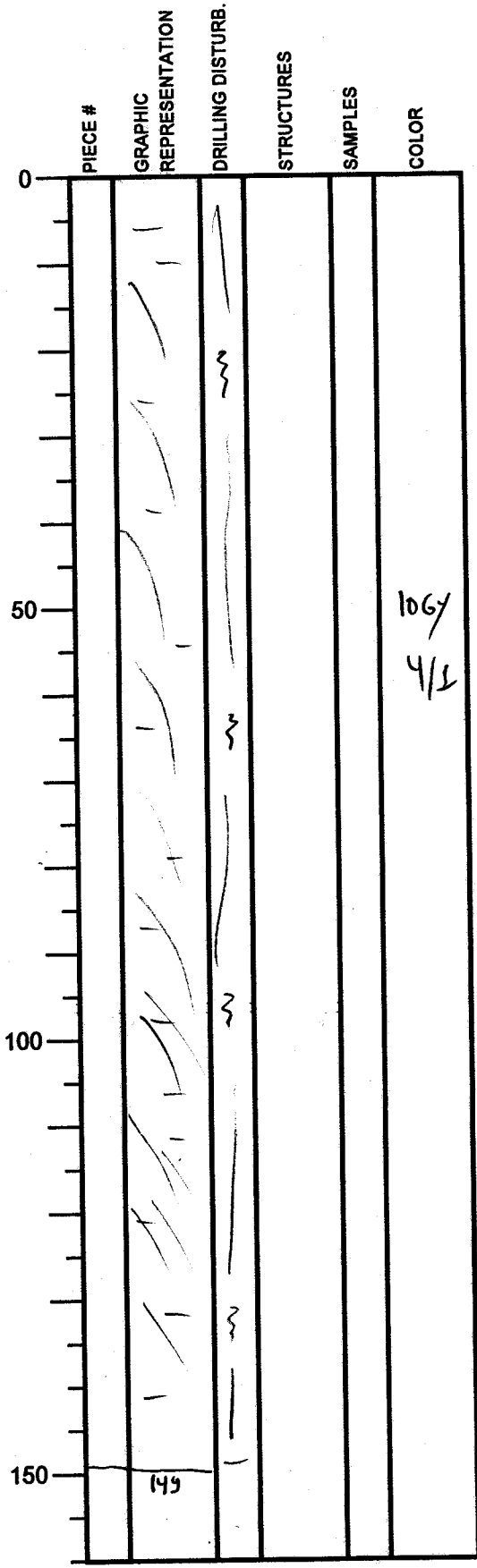
OBSERVER: T. AWES

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						10G/ 412
25						
50						
100						
150						

25 cm of plastered in mud.

Integrated Ocean Drilling Program
Visual Core Description

NO. 138
DATE: 4/12/2010
EXP.: 333
SITE/HOLE: C0018A
CORE: 16H
SECTION: 1
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: 136.15m

Silty clay, heavily defauned.
Banding at $>60^\circ$ from horizontal.
Core highly disturbed during drilling
mottled

Integrated Ocean Drilling Program

Visual Core Description

NO. 135
 DATE: 17/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 16H
 SECTION: 2
 TOP DEPTH (m CSF): 137.64

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0	[Hand-drawn wavy lines]			*	1067
50	[Hand-drawn wavy lines]		CONVOLUTE BEDDING	*	1067 4/1
100	[Hand-drawn wavy lines]		CONVOLUTE BEDDING	*	
150	[Hand-drawn wavy lines]		CONVOLUTE BEDDING	*	

SECTION DESCRIPTION

OBSERVER:

7/1 * SS = 4cm (volcan. ash)

Silty clay, mottled




SS = 110cm (MTD)

convolute bedding

SS = 128cm (MTD F20)

Integrated Ocean Drilling Program Visual Core Description

NO. 140
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: 0018A
 CORE: 164
 SECTION: 3
 TOP DEPTH (m CSF): 139.14 m

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			CONVOLUTE BEDDING		106g 4/1
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: TALVES

Chaotic homogeneous mud (silty clay)
mottled

Integrated Ocean Drilling Program Visual Core Description

NO. 141
 DATE: 12/12/2010
 EXP.: 323
 SITE/HOLE: codBA
 CORE: 16H
 SECTION: 4
 TOP DEPTH (m CSF): 140.25

OBSERVER: T. MORGAN

SECTION DESCRIPTION

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
50	(Handwritten squiggly lines)	(Handwritten wavy lines)		*	1067 4/1
100	(Handwritten squiggly lines)	(Handwritten wavy lines)	CONVOLUTE BEDDING	*	
150	M3.5				

Silty clay, mottled.

Convolute bedding
 SS=47 cm (MTO FLD)

SS=108 cm (MTO FLD DARK BAND)

Integrated Ocean Drilling Program

Visual Core Description

NO. 142
 DATE: 12/12/2010
 EXP.: 323
 SITE/HOLE: Cool8A
 CORE: 16H
 SECTION: 10
 TOP DEPTH (m CSF): 141.71m

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		(Hand-drawn scribbles)				
50		(Vertical lines)				
100		(Vertical lines)				
150		(Vertical lines)				

SECTION DESCRIPTION

MTD. Silty clay, convoluted bedding

Homogeneous silty clay

OBSERVER: *T. Alvar*

Integrated Ocean Drilling Program Visual Core Description

NO. 143
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: *COO18A*
 CORE: 164
 SECTION: 11
 TOP DEPTH (m CSF): 142.52

SECTION DESCRIPTION

OBSERVER: *T. plus*

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

*Silty mud, homogeneous
mottled (some ash)*

*SS =
100cm (hemipelagic mud)*

127cm

Integrated Ocean Drilling Program Visual Core Description

NO. 144
 DATE: 12/12/2010
 EXP.: 393
 SITE/HOLE: Coo18a
 CORE: 364
 SECTION: 13
 TOP DEPTH (m CSF): 144.43

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		2 2				
		23 cm				10G 4/1
50						
100						
150						

SECTION DESCRIPTION


23 cm of convoluted
Silty mud.

OBSERVER: T. Shy

Integrated Ocean Drilling Program

Visual Core Description

NO. 145
 DATE: 11/12/2010
 EXP.: 333
 SITE/HOLE: 018A
 CORE: 16A
 SECTION: CC
 TOP DEPTH (m CSF): 144.43

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						log 4/1
		25cm				
50						
100						
150						

SECTION DESCRIPTION

OBSERVER: T. Das

25cm of convoluted silty clay

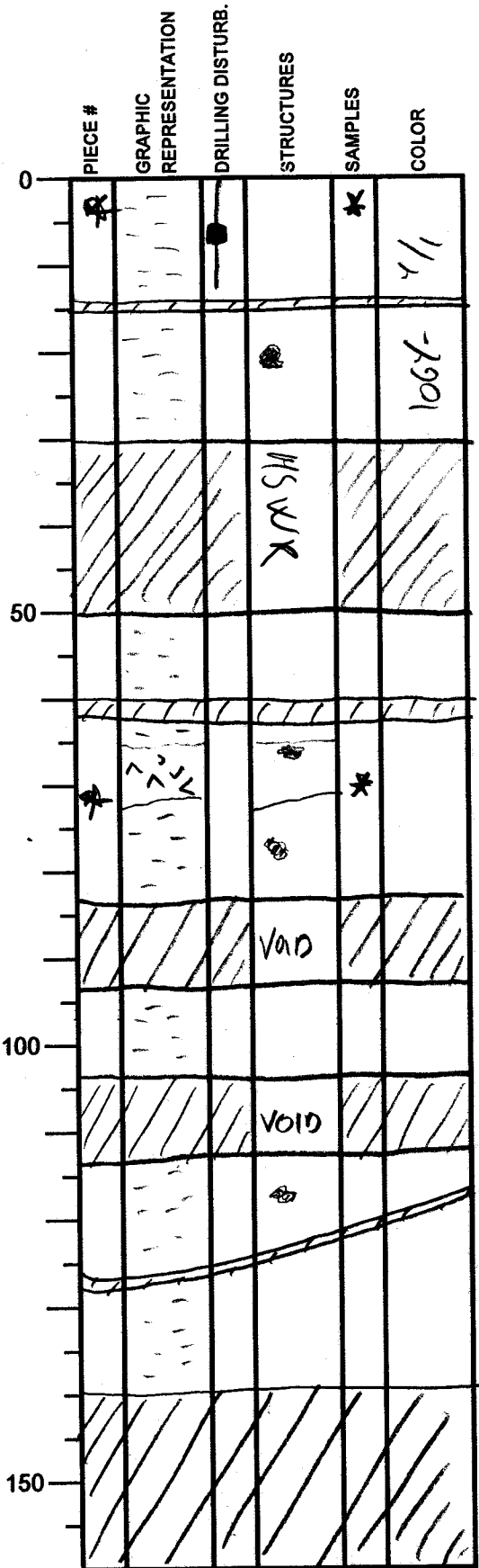
Integrated Ocean Drilling Program

Visual Core Description

NO. 146
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: CO18A
 CORE: 17H
 SECTION: O1-AA
 TOP DEPTH (m CSF): -A
 144.65
 OBSERVER:

J. L.

SECTION DESCRIPTION



VOID

* Smear slide at 30cm
 * Smear slide at 71cm

VOID

Volcanic ash layer - light gray - gray
 some color mottling in the upper part - slight disturbance

VOID

VOID

VOID

Dark greenish gray silty clay composition volcanic ash grains

Mottling may be clay clast or disturbance (slight)

Volcanic ash layer at 67-72 cm depth

EOC = 146cm

Integrated Ocean Drilling Program

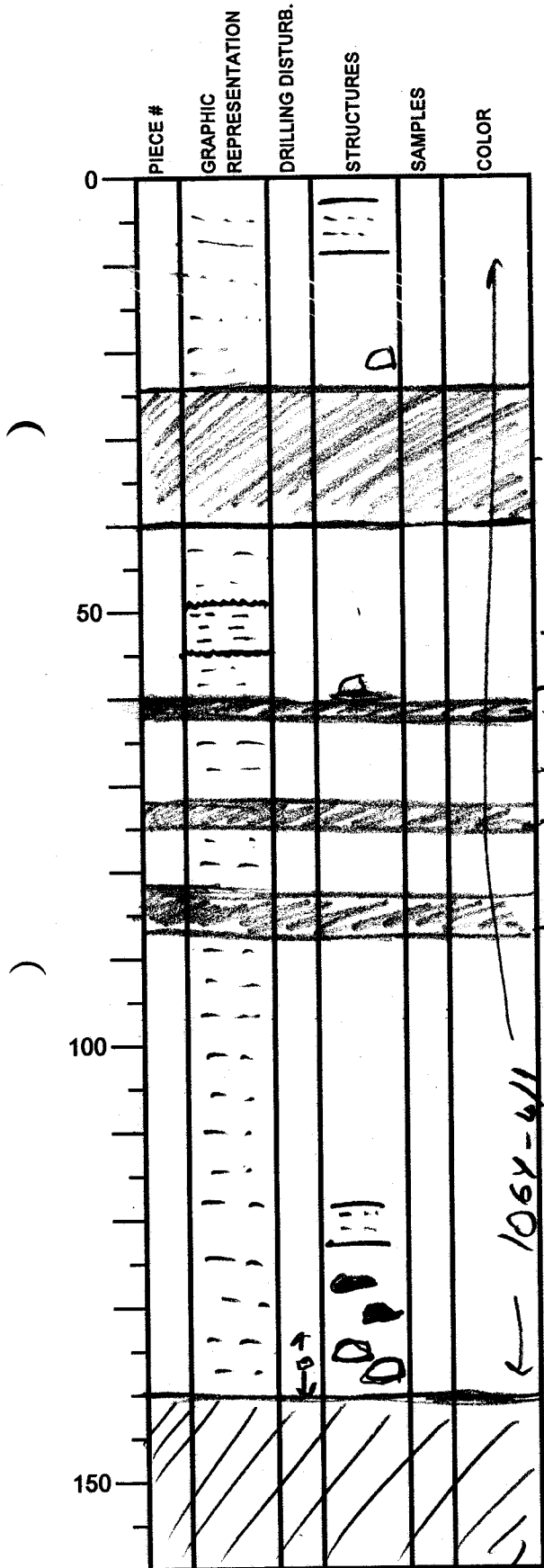
Visual Core Description

NO. 147
 DATE: 12/21/2010
 EXP.: 333
 SITE/HOLE: CO18A
 CORE: 17H
 SECTION: 02-AR
 TOP DEPTH (m CSF):
 116.055
 OBSERVER:

SECTION DESCRIPTION

Fal. Koray

△: patches of ash



com 24-39

silty clay

void 62-64

Ap.

void 71-75

void 81-87

106Y-411

→ Dark greenish gray - grayish green clay with silty-clay layers.

→ Patches of ash

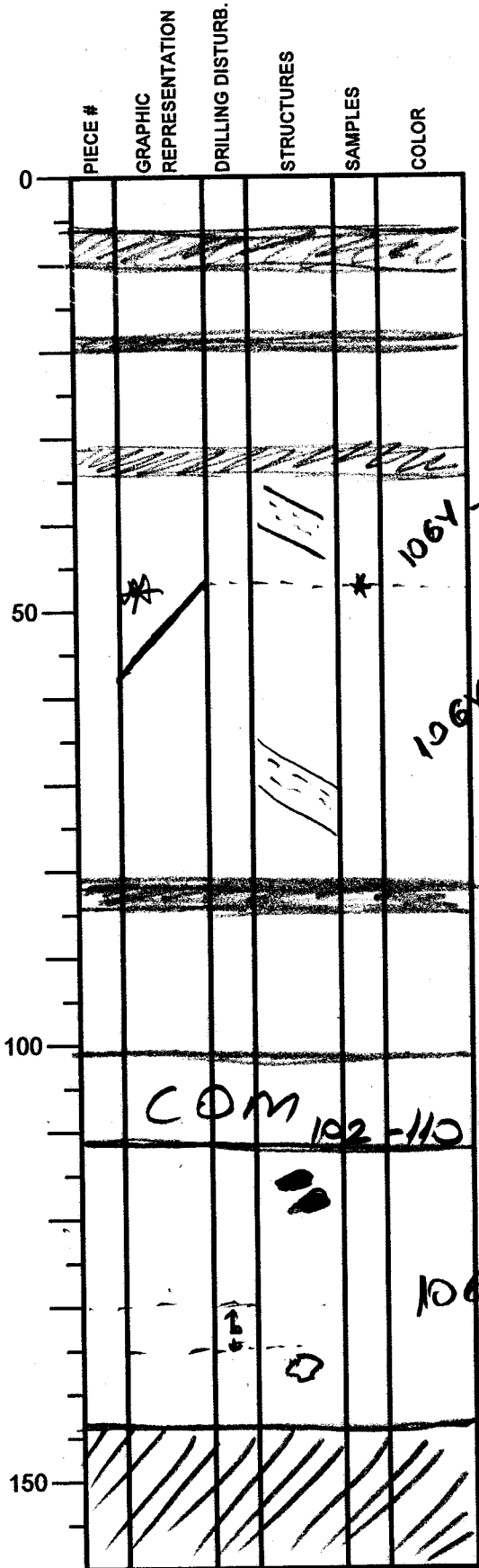
→ Slightly bioturbated

→ slightly mottled with color bands faint

Integrated Ocean Drilling Program

Visual Core Description

NO. 148
 DATE: 12/21/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 17H
 SECTION: 03-AA
 TOP DEPTH (m CSF): 147.46 mCSF
 OBSERVER:



SECTION DESCRIPTION

void - 6-9
 void 17-19
 voids 31-34
 106Y-4/1 dipping color bands
 106Y-5/1 * Smear slide at 48cm
 dipping color bands
 void 83-85
 COM 102-110
 106Y-4/1
 patch of ore-ash grain
 Dark greenish gray, grayish green clay with banding of MnO₂ changing color.

+ ash grains. (faint)
 + lower part has faint mottlings

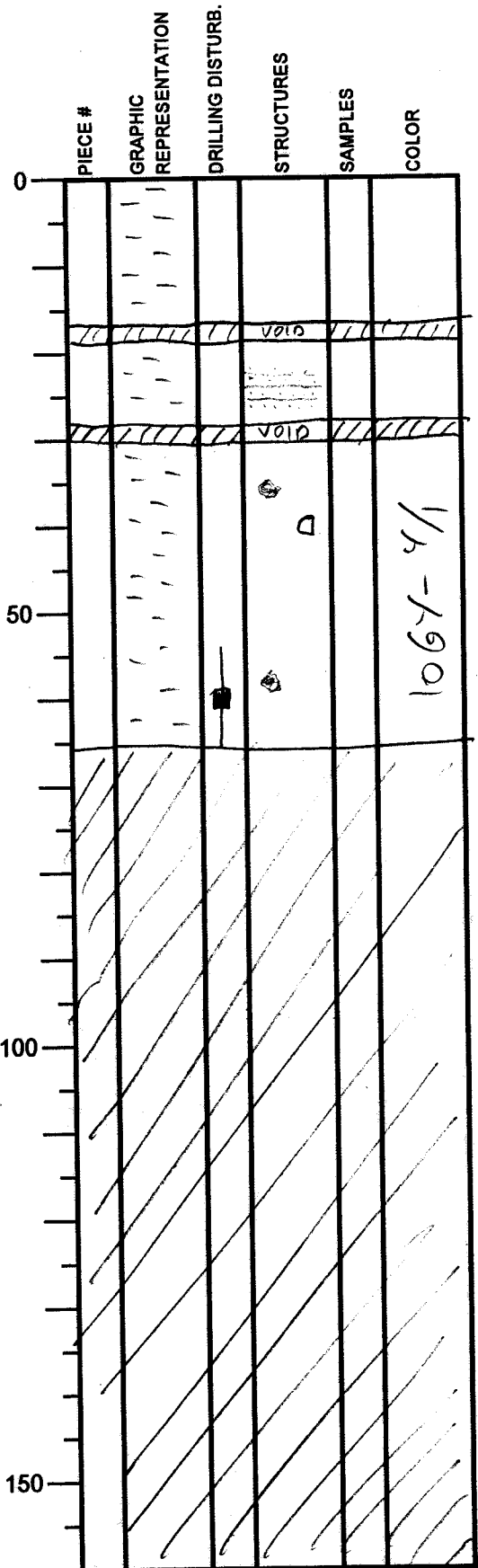
Integrated Ocean Drilling Program

Visual Core Description

NO. 149
DATE: 8/12/2010
EXP.: 333
SITE/HOLE: COO18A
CORE: 17H
SECTION: 01-AA
TOP DEPTH (m CSF): -A
148.876 m
OBSERVER:

Ja L.

SECTION DESCRIPTION



EOC = 65 cm

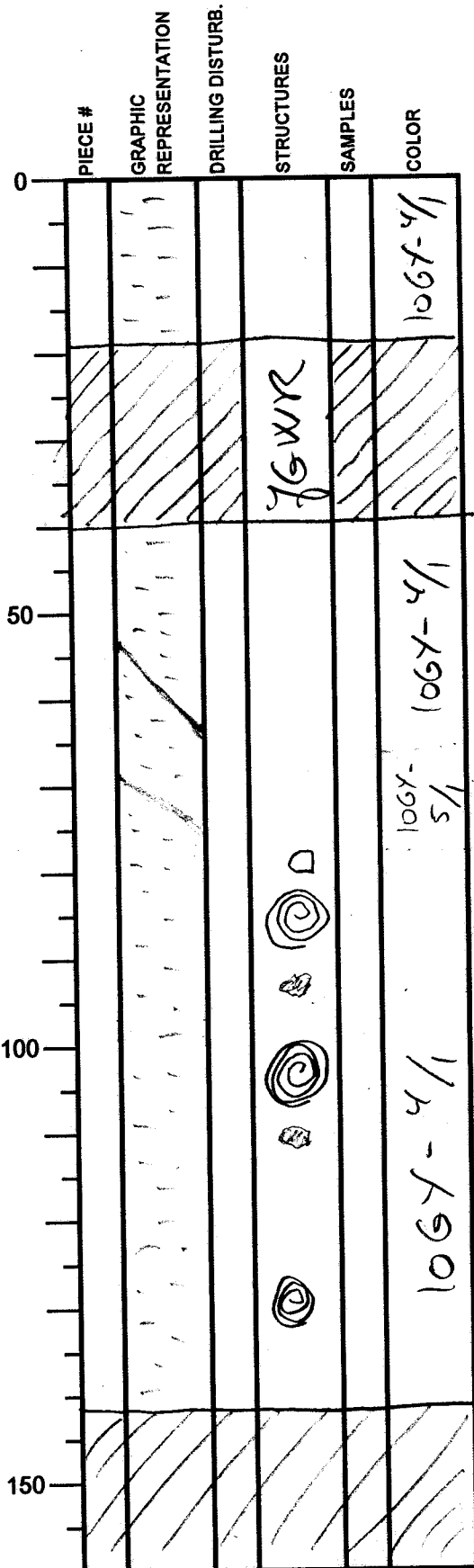
Integrated Ocean Drilling Program

Visual Core Description

NO. 150
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 17H
 SECTION: 06-AA
 TOP DEPTH (m CSF): -A
 109.805
 OBSERVER:

SECTION DESCRIPTION

J. L.



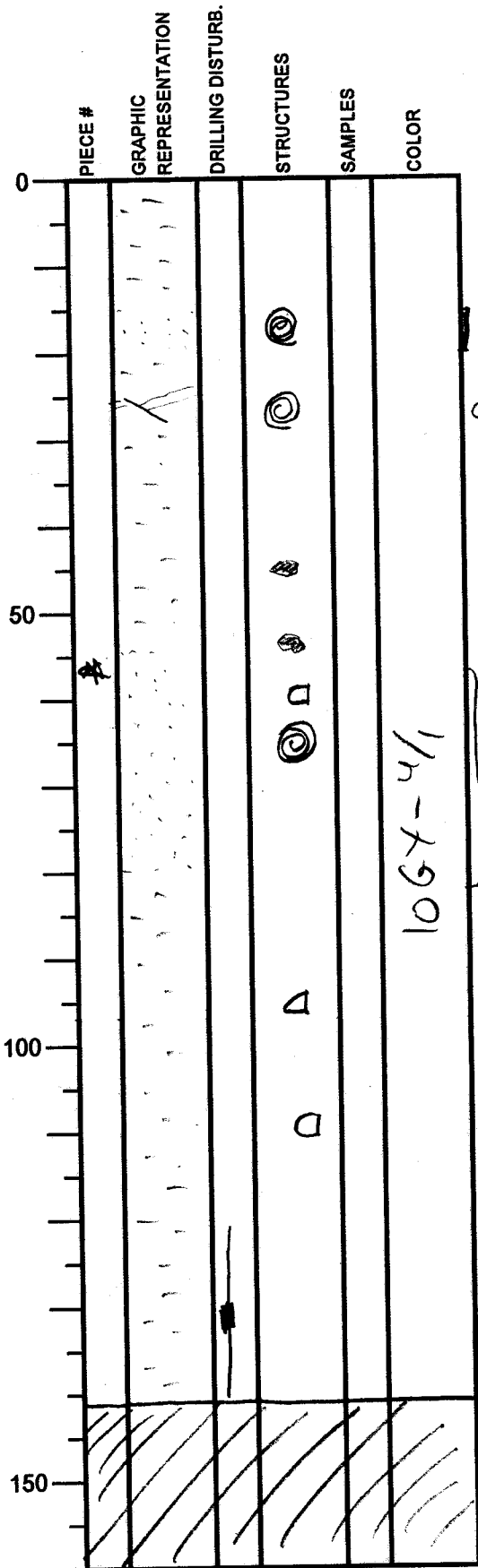
Dark greenish gray clay
 with a ~10 cc matrix, dipping
 interval of greenish gray clay,
 calcitic bedding, color mottling
 and patches of volcanic
 material

EOC = 142 CL

Integrated Ocean Drilling Program

Visual Core Description

NO. 151
 DATE: 16/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 17A
 SECTION: 07-~~AA~~
 TOP DEPTH (m CSF): -A
 151.23 m
 OBSERVER:



SECTION DESCRIPTION

Zone of ash grains mixed into
 the clay
 Chaotic bedding, partly faulted

* Smear slide at 56 cm

-51-80cm: zone including
 Patch of volcanic material,
 bands of m-mixed ash
 ash grain mixed throughout,
 the bands have higher ash
 content

Patch of volcanic material

Dark greenish gray clay
 comprising chaotic bedding,
 mottling and two zones
 -25-29cm and 51-80cm-
 when grains of ash are
 mixed into the clay

EOC = 141 cm

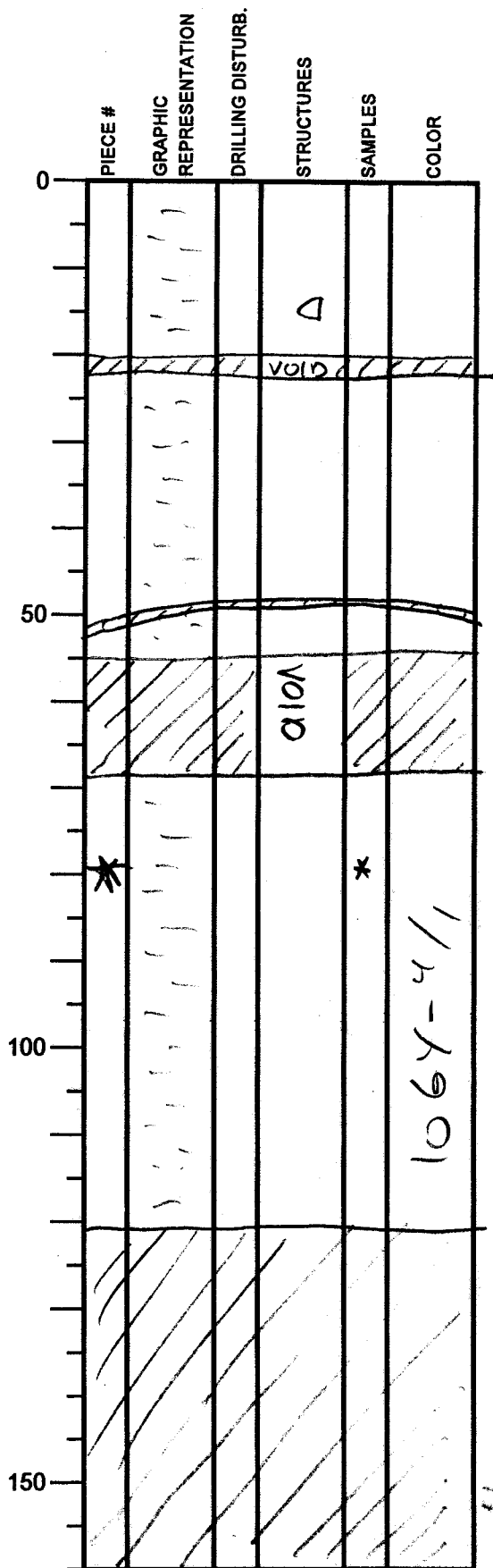
Integrated Ocean Drilling Program

Visual Core Description

NO. 152
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 17H
 SECTION: 08-AA
 TOP DEPTH (m CSF): -A
 152.645m
 OBSERVER:

JAL

SECTION DESCRIPTION



* Smear slide at 80 cm

Irregular surface of this section → description less precise

Dark greenish gray clay containing some particles of ash

EOC 2 121.5cm

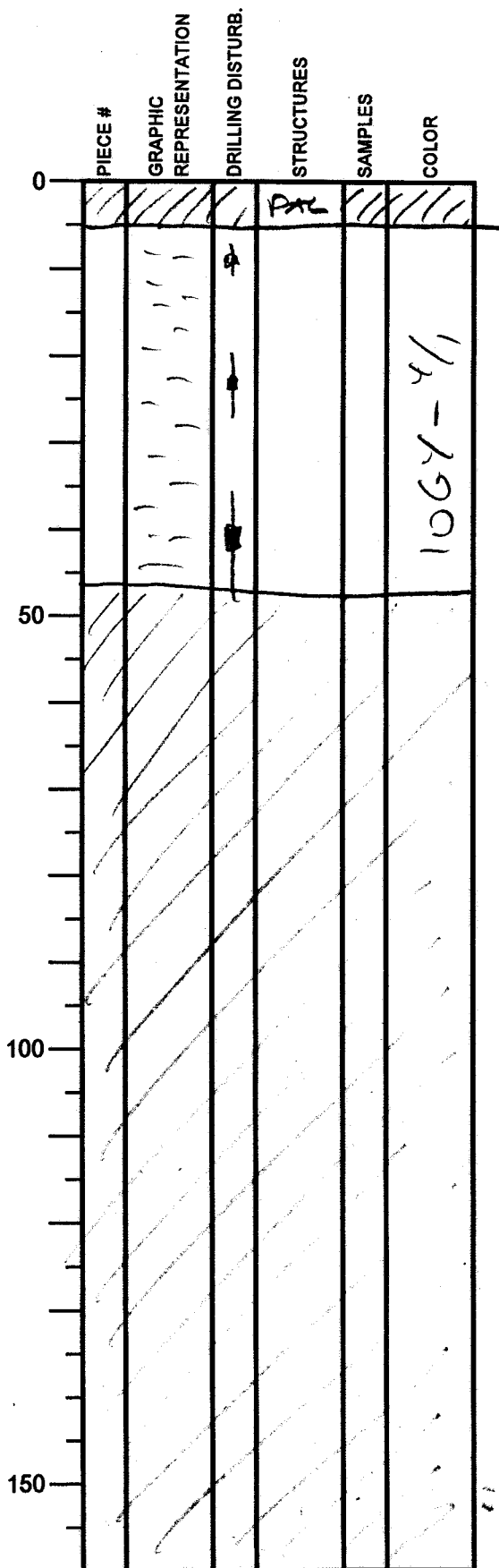
Integrated Ocean Drilling Program

Visual Core Description

NO. 153
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 17H
 SECTION: C.C.
 TOP DEPTH (m CSF): A
 153.865
 OBSERVER:

JAL

SECTION DESCRIPTION



EOC = 47 cm

Irregular surface of the CC
 -> description less precise

Dark greenish gray
 clay

Integrated Ocean Drilling Program
Visual Core Description

NO. 154
DATE: 18/12/2010
EXP.: 335
SITE/HOLE: 0018A
CORE: 18H
SECTION: A-AA
TOP DEPTH (m CSF): -A
153.65m

OBSERVER:

Jul

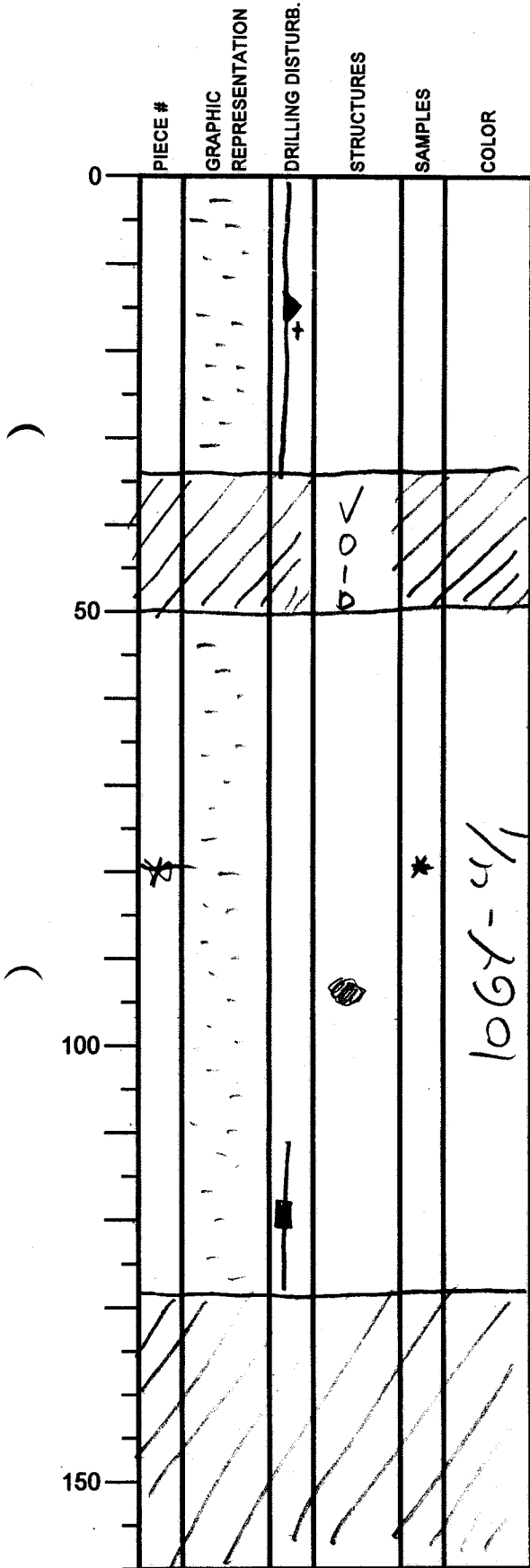
SECTION DESCRIPTION

Heavily disturbed

* Smear slide
at 80cm

Moderately disturbed

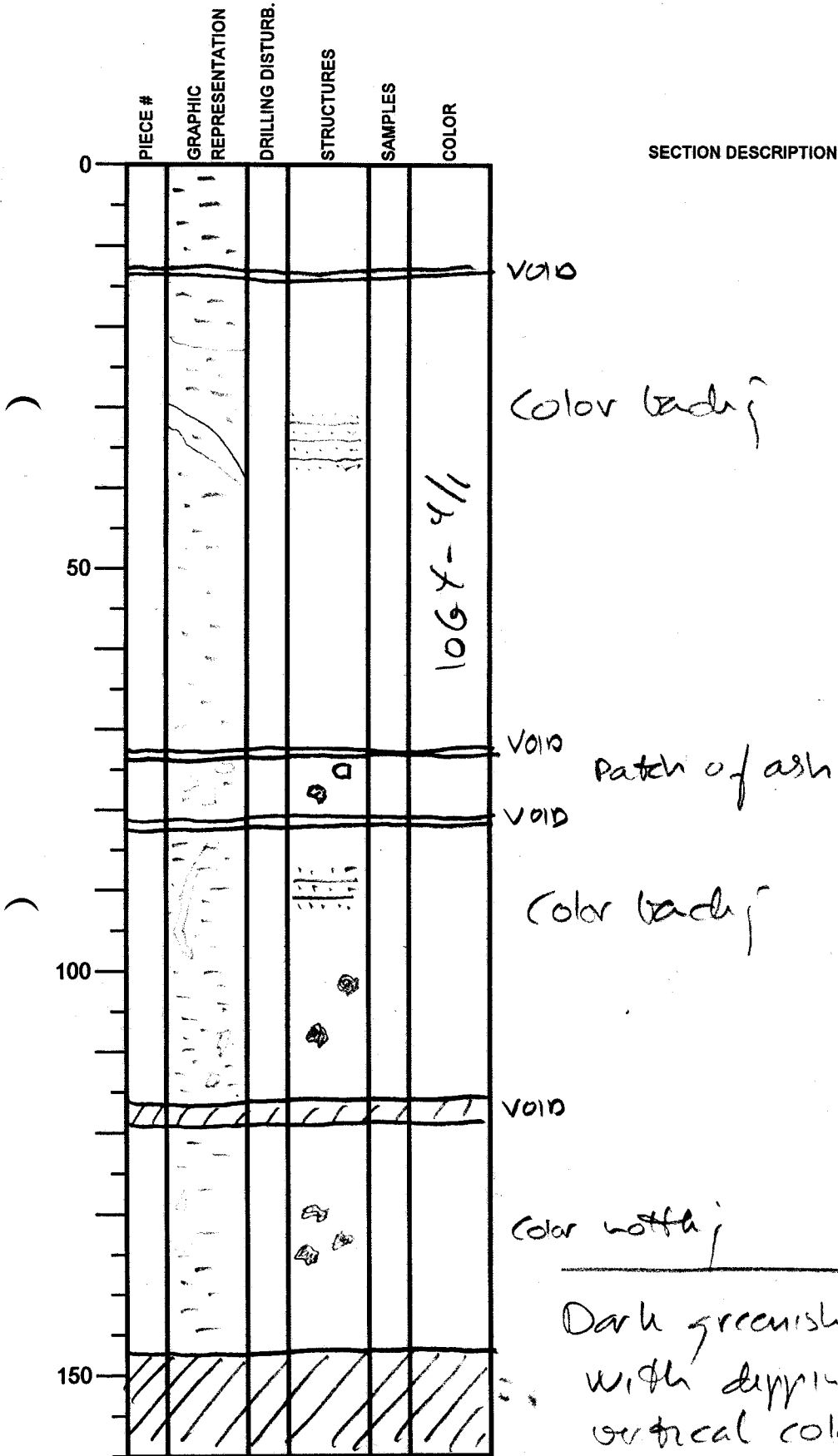
Dark greenish gray clay
heavily disturbed in the
upper part and the rest
was a very insular surface
- interpretation of
structures difficult.



EOC = 128 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 155
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: 0018A
 CORE: 18H
 SECTION: 02-AA
 TOP DEPTH (m CSF):
 154.93 m
 OBSERVER:
 JAL



EOC = 147.5 cm

Dark greenish grey clay with dipping and up to vertical color bands and color nothing

Discussion on whether near vertical / vertical banding is due to inflow during coring or not!

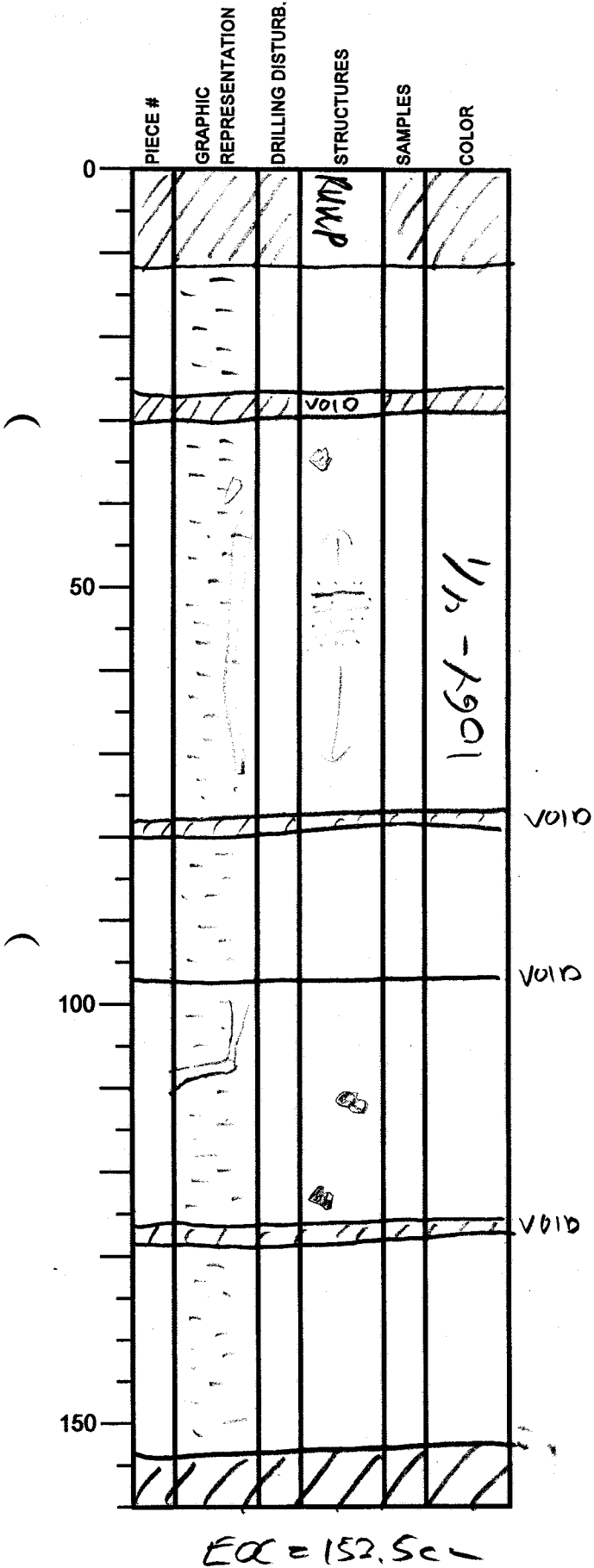
Integrated Ocean Drilling Program

Visual Core Description

NO. 156
 DATE: 18/11/2010
 EXP.: 333
 SITE/HOLE: 0018A
 CORE: 18H
 SECTION: 03-4A
 TOP DEPTH (m CSF): -
 156.41 m
 OBSERVER:

FL

SECTION DESCRIPTION



Dark greenish gray clay with draping and up to vertical color bands & color mottling

⇒ Vertical color bands may also here indicate inflation deep coring?

Not concurred!

Integrated Ocean Drilling Program Visual Core Description

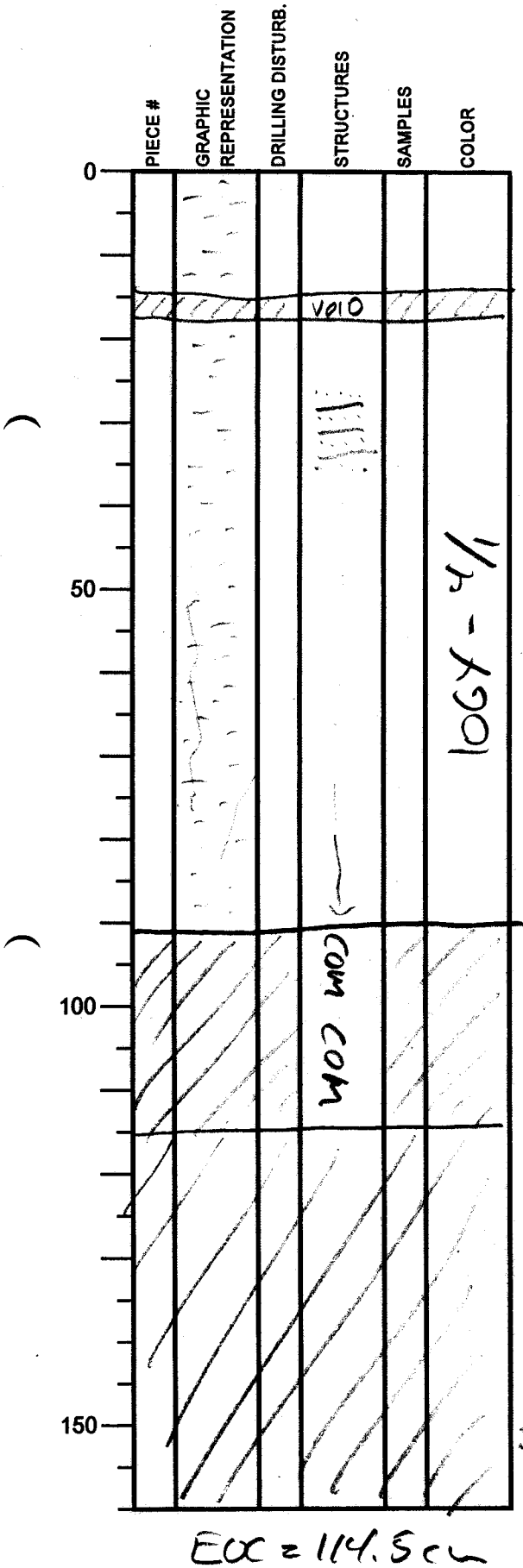
NO. 157
 DATE: 18 JUL 2010
 EXP.: 333
 SITE/HOLE: 6018A
 CORE: 18H
 SECTION: 05-AA
 TOP DEPTH (m CSF): -4

158.23m

OBSERVER:

JAL

SECTION DESCRIPTION



Dark greenish gray clay
 with nearly vertical color
 bands, some possibly
 faulted
 ⇒ Inflow of original
 structures of the UFD?

Integrated Ocean Drilling Program

Visual Core Description

NO. 152
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: 0018A
 CORE: 18H
 SECTION: 06-AA
 TOP DEPTH (m CSF): -9
 159.375m
 OBSERVER: JAL

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				RMS		
50	*					1/2-159
100						
150						

SECTION DESCRIPTION

Faint color beding
 * Smear slide at 23 cm

Dark greenish gray clay
 with faint color beding

EC = 27.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 159
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: 0018A
 CORE: 18H
 SECTION: CC
 TOP DEPTH (m CSF): -8
 159.655 m
 OBSERVER: JAL.

SECTION DESCRIPTION

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
				PAL		
				□		1067-4/1
50						
100						
150						

Color mottling
Patch of ash

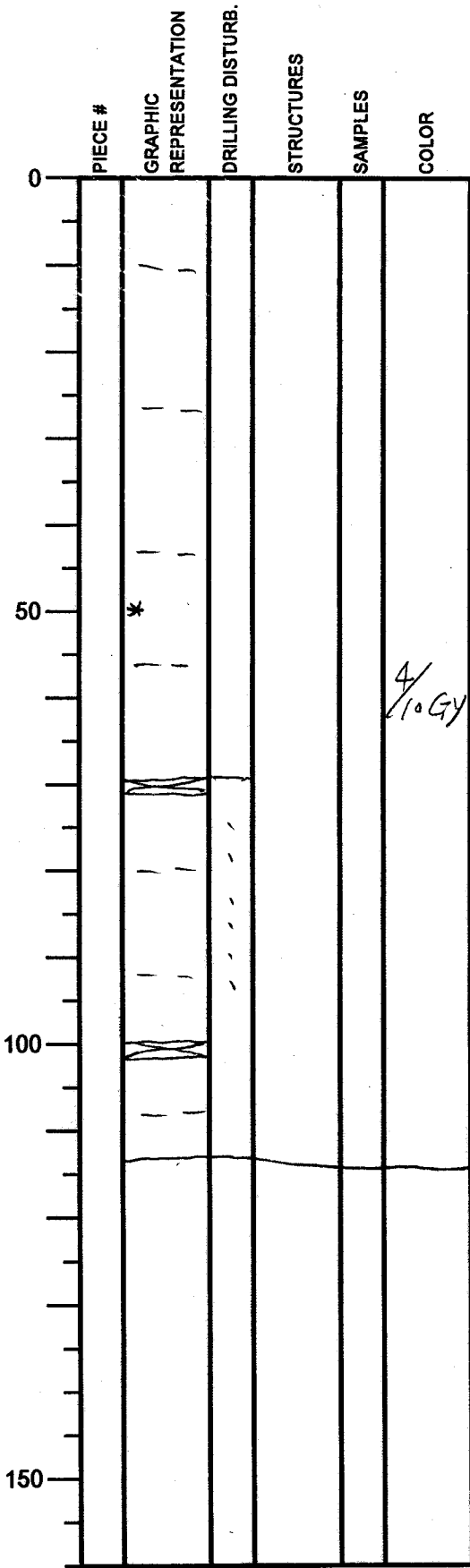
Dark greenish gray clay with faint color mottling in the lower part.

EOC = 37 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 160
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 19H
 SECTION: 01-AA
 TOP DEPTH (m CSF): 159.65



SECTION DESCRIPTION

OBSERVER: S. Gao

Silty clay, with certain
 degrees of etc color
 variations in the core.
 Volcanic ash concentrates
 in some layers, e.g. 75-76
 cm.

-SS
= 50cm

4/10 Gy

EOC = 113 cm

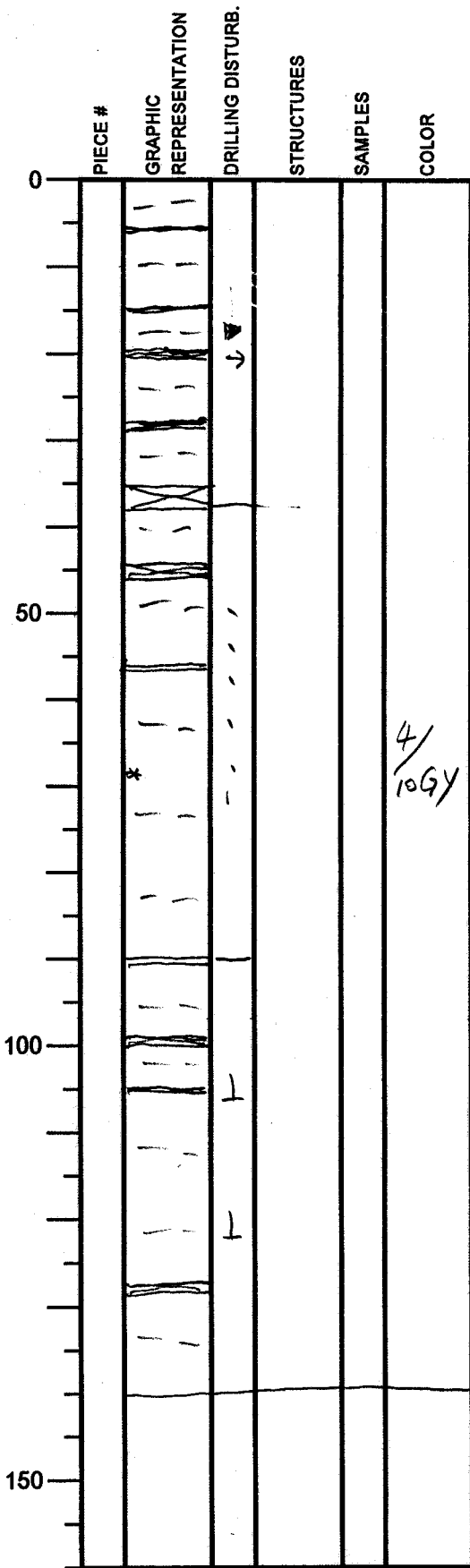
Integrated Ocean Drilling Program Visual Core Description

NO. 161
 DATE: 10/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 194
 SECTION: 02-AA
 TOP DEPTH (m CSF): 161.925

OBSERVER: S. Gao

SECTION DESCRIPTION

Silty clay, with
ash being present
at 70cm.



4/10GY - SS = 63cm

EOC = 140 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 162
 DATE: 10/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 19H
 SECTION: 03-AA
 TOP DEPTH (m CSF): 162.44

OBSERVER: S. Gao

SECTION DESCRIPTION

silt & clay, more
or less homogeneous.

EOC = 32cm

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						4 /106y
50						
100						
150						

Integrated Ocean Drilling Program

Visual Core Description

NO. 163
 DATE: 10/12/2020
 EXP.: 333
 SITE/HOLE: C0018A 09?
 CORE: 194
 SECTION: 08-AA
 TOP DEPTH (m CSF): 163.065

OBSERVER: S. Gao

SECTION DESCRIPTION

Clayey silt, with
 color variations
 (in a band pattern)
 between 20 and 79
 cm. Ash at 65-67,
 75, 98.5, 109.5, 118
 and 122 cm.

4/1064 -SS = 65cm

EOC = 132.5cm

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

Integrated Ocean Drilling Program

Visual Core Description

NO. 164
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 19H
 SECTION: 05-AA
 TOP DEPTH (m CSF): 163.34

OBSERVER: S. Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						3 /10gY
100						
150						

SECTION DESCRIPTION

clayey silt,
 with dark colored
 bands (rich in
 ash).

EOC = 34.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 165
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 194
 SECTION: 06-AA
 TOP DEPTH (m CSF): 164.67

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

SECTION DESCRIPTION

Silt & clay, with
 dark color bands
 rich in ash
 particles.

OBSERVER: S. Gao

EOC = 50.5cm

3/106y

Integrated Ocean Drilling Program Visual Core Description

NO. 166
DATE: 1 / 20
EXP.:
SITE/HOLE:
CORE:
SECTION: CC-AA
TOP DEPTH (m CSF): 165.02

OBSERVER: S. Gao

SECTION DESCRIPTION

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

Integrated Ocean Drilling Program

Visual Core Description

NO. 167
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 20H
 SECTION: 01
 TOP DEPTH (m CSF): 164.65

OBSERVER: S. Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						4 / 10G4
100						
150						

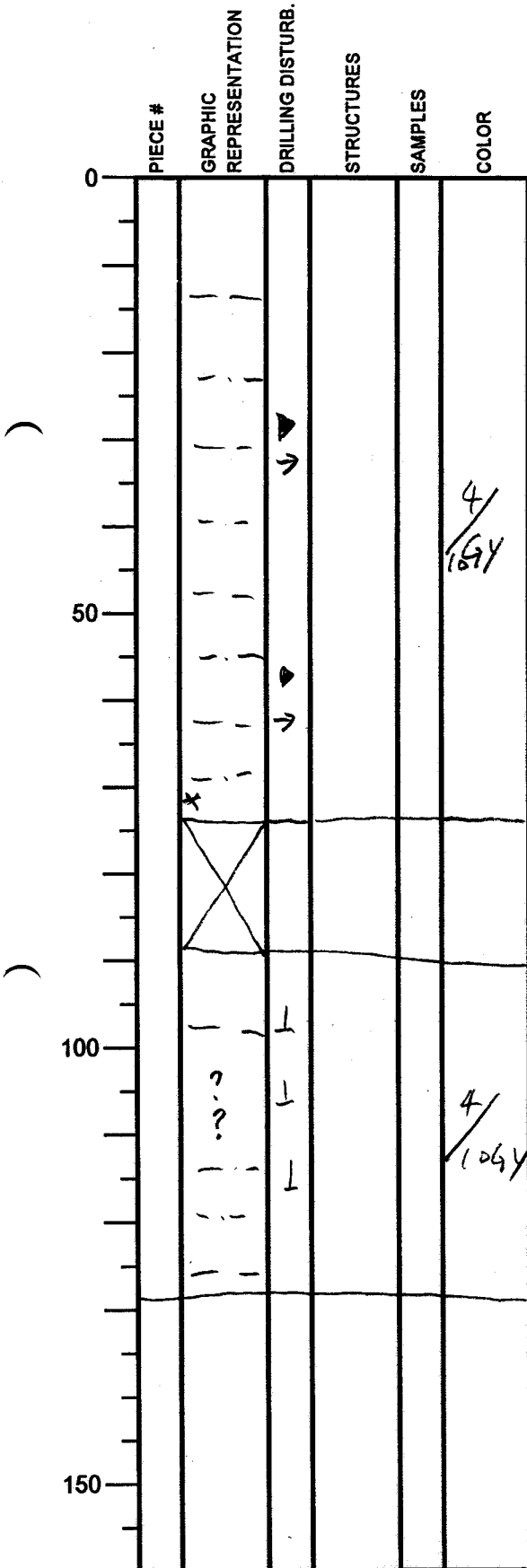
SECTION DESCRIPTION

Silty clay.

EOC = 31.5cm

Integrated Ocean Drilling Program Visual Core Description

NO. 168
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 204
 SECTION: 02
 TOP DEPTH (m CSF): 164.955



SECTION DESCRIPTION

Disturbed by drilling, with a large water content. Silt & Clay.

OBSERVER:

- SS = 71 cm

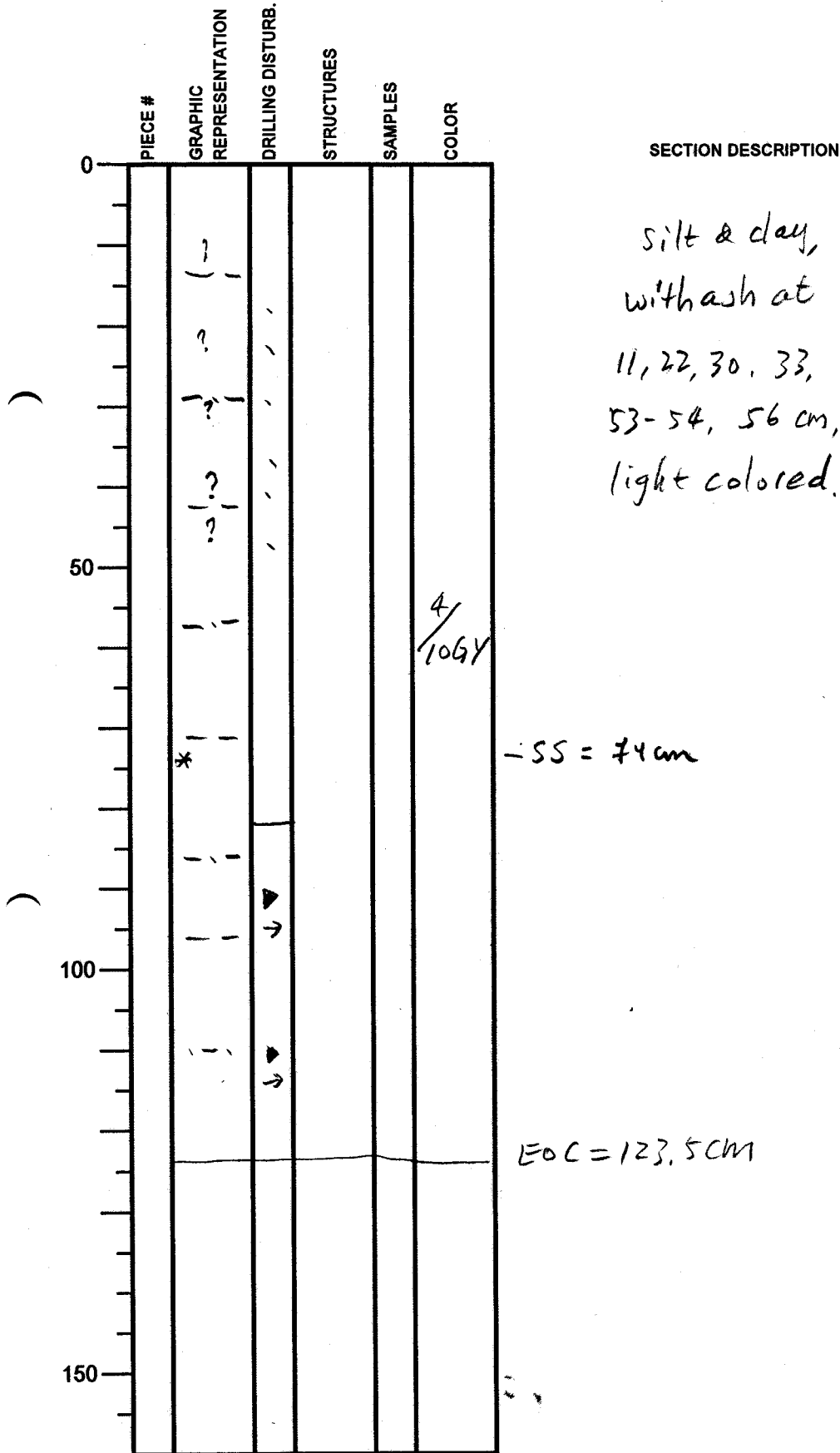
Silt & clay, with ash being present at 104.5, 106 and 107-108 cm.

EOC = 129 cm

Integrated Ocean Drilling Program

Visual Core Description

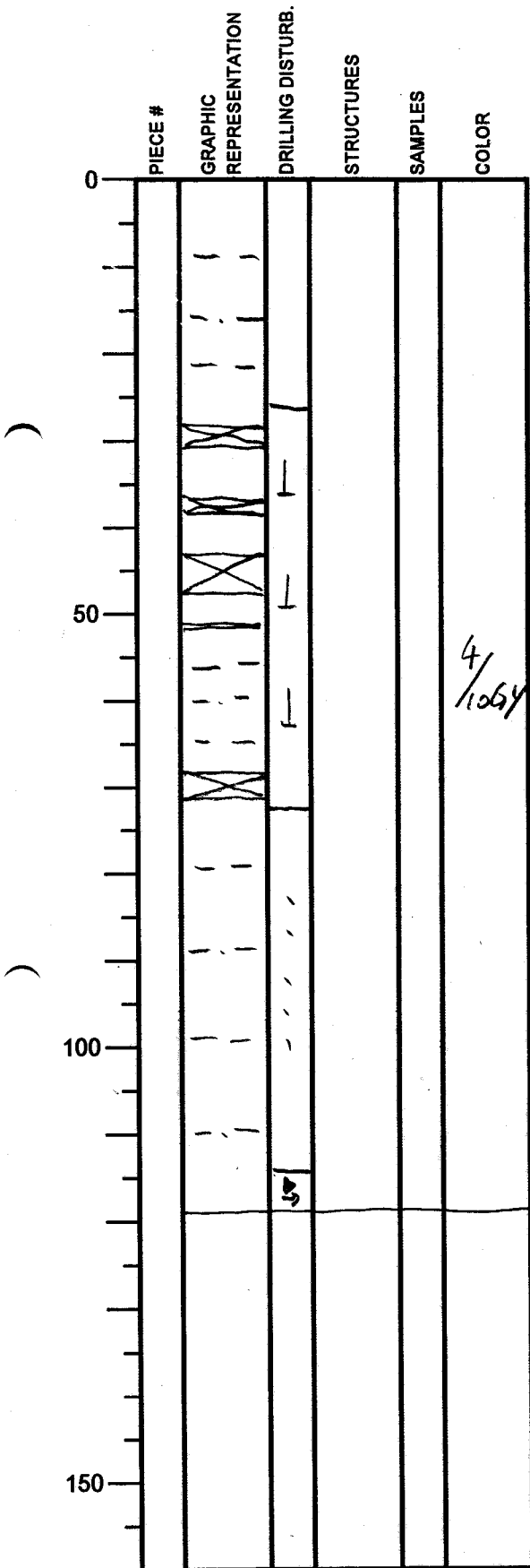
NO. 169
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 20H
 SECTION: 03
 TOP DEPTH (m CSF): 166.25



OBSERVER:

Integrated Ocean Drilling Program Visual Core Description

NO. 170
 DATE: 10/21/2010
 EXP.: 332
 SITE/HOLE: C0018A
 CORE: 20H
 SECTION: 04
 TOP DEPTH (m CSF): 167.685



SECTION DESCRIPTION

Silt & clay,
 Ash at 12 cm,
 dark colored.

OBSERVER:

EOC = 119.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 171
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: Coa18A
 CORE: 20H
 SECTION: 06
 TOP DEPTH (m CSF): 169.10

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						4/10G
100						
150						

SECTION DESCRIPTION

OBSERVER:

silty clay, with
 ash being concentrated
 in 8-12 cm, 17-21 cm.

SS = 74cm

EOC = 125cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 172
 DATE: 18/12/2016
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 20H
 SECTION: 07
 TOP DEPTH (m CSF): 170.56

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

SECTION DESCRIPTION

OBSERVER:

silty clay, with
 vertical color
 band (distortion
 during drilling?).
 Ash at 24-35 cm.

4/
1064

Integrated Ocean Drilling Program Visual Core Description

NO. 173
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 204
 SECTION: 08
 TOP DEPTH (m CSF): 172.015

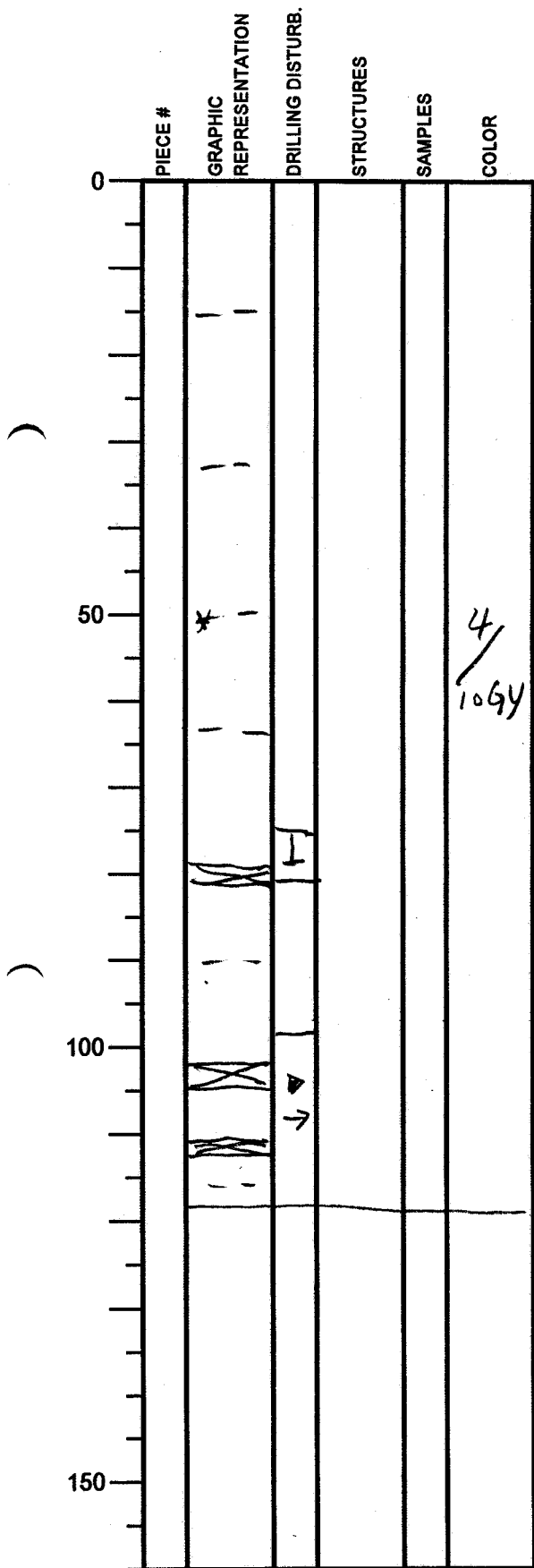
OBSERVER: S. Gao

SECTION DESCRIPTION

silty clay, with
 vertical color
 bands (distortions
 due to drilling?)

4/ - SS = 50cm
1064

EOC = 118.5 cm



Integrated Ocean Drilling Program

Visual Core Description

NO. 174
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 20H
 SECTION: 09
 TOP DEPTH (m CSF): 173,405

OBSERVER: S. Gao

SECTION DESCRIPTION

The same as
 08-AA.
 Ash at 23 cm.

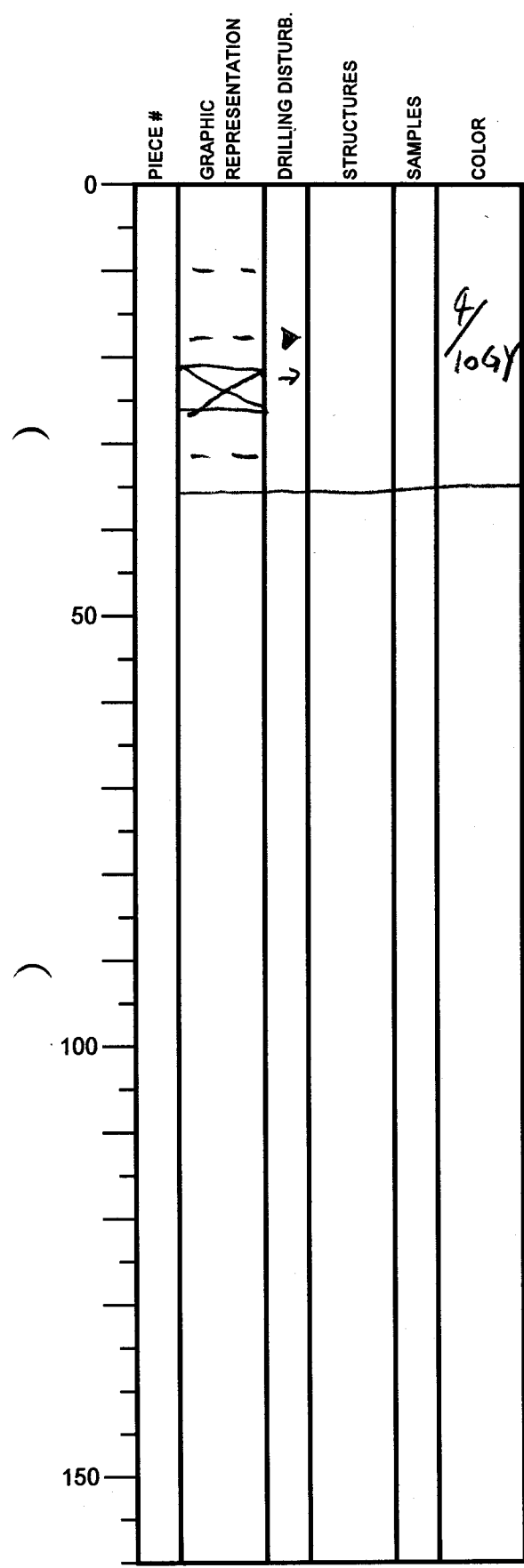
EOC = 82 cm

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
50					4/ (0.9)
100					
150					

Integrated Ocean Drilling Program Visual Core Description

NO. 175
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 20H
 SECTION: CC-AA
 TOP DEPTH (m CSF): 174.23

OBSERVER: S. Gao



SECTION DESCRIPTION

silty clay.

EOC = 35.5 cm

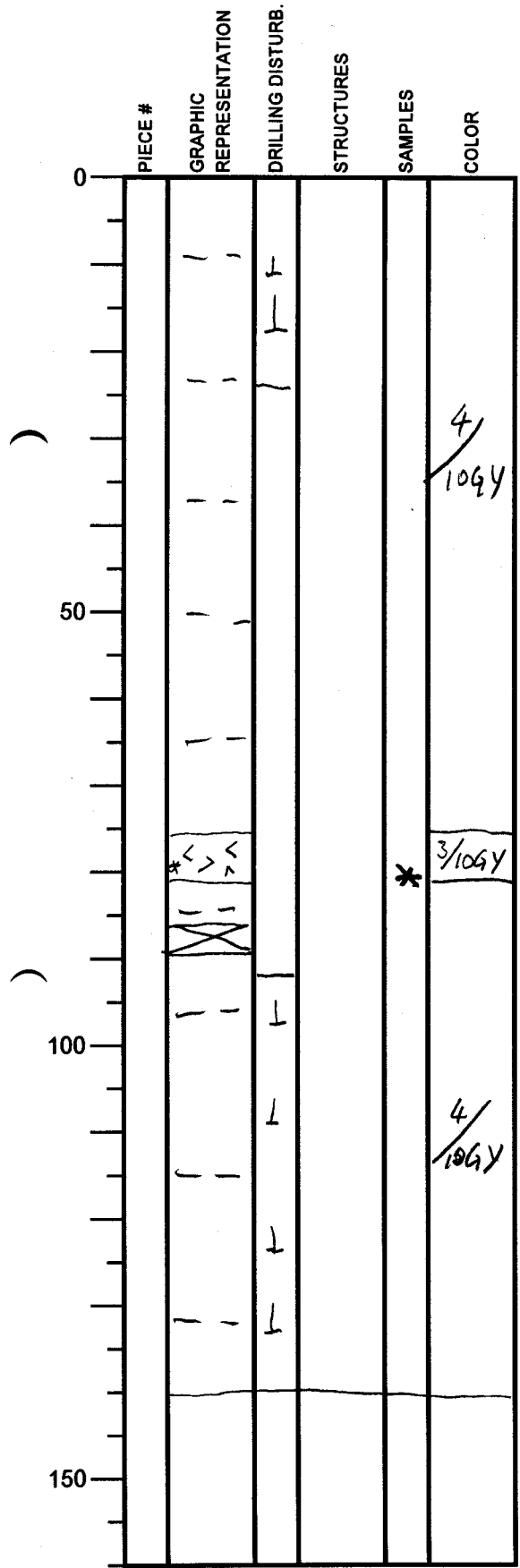
Integrated Ocean Drilling Program

Visual Core Description

NO. 176
 DATE: 8/12/2010
 EXP.: 333
 SITE/HOLE: COO10A
 CORE: Z1#
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: S. Gao

SECTION DESCRIPTION



Silty clay, with
 4 layered color changes
 between 24 ~ 75 cm.

* 3/106Y - SS = 80cm
 Volcanic clastic sand.

silty clay, with ash (Pumice)
 (light colored) concentrating
 in 20.5 - 26.5 cm.

EOC = 140 cm

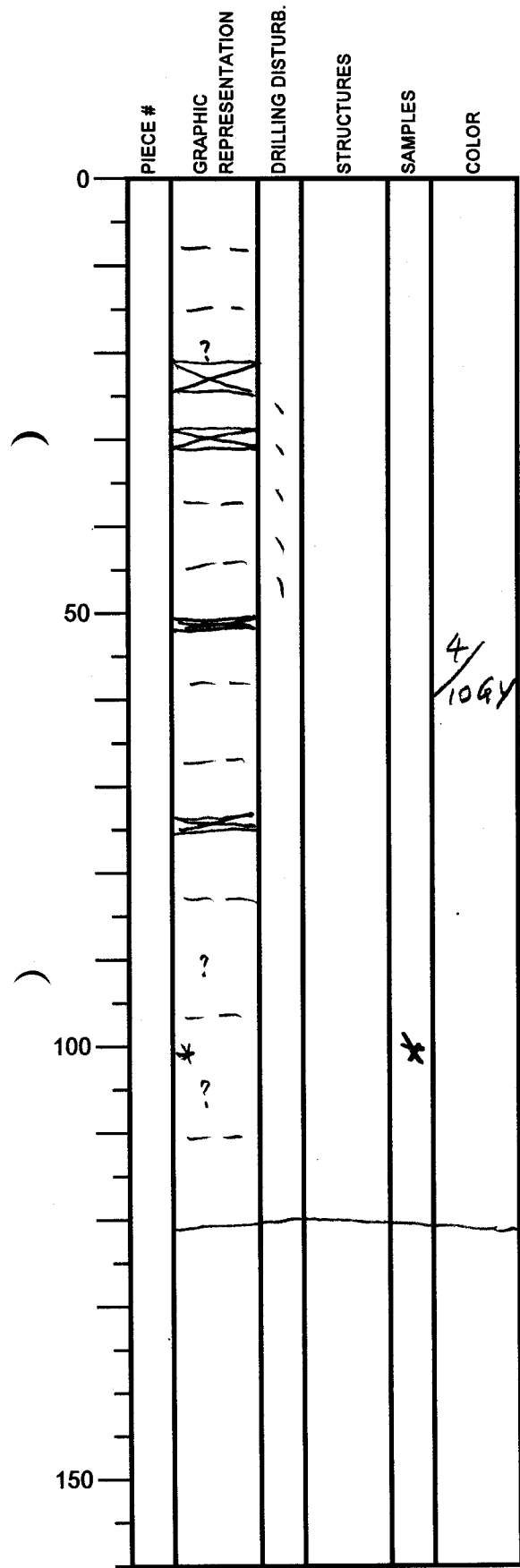
Integrated Ocean Drilling Program

Visual Core Description

NO. 177
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 21H
 SECTION: 02
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: S. Gao



Silty clay, with
 ash at 20, 90 and
 106 cm.

* SS = 106 cm

EOC = 120.0

4/
106Y

Integrated Ocean Drilling Program

Visual Core Description

NO. 178
 DATE: 1/21/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 21H
 SECTION: 04
 TOP DEPTH (m CSF):

OBSERVER: S. Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						3/104Y
50						
100						
150						

SECTION DESCRIPTION

Silt and clay,
with a sand layer
in the lower part.

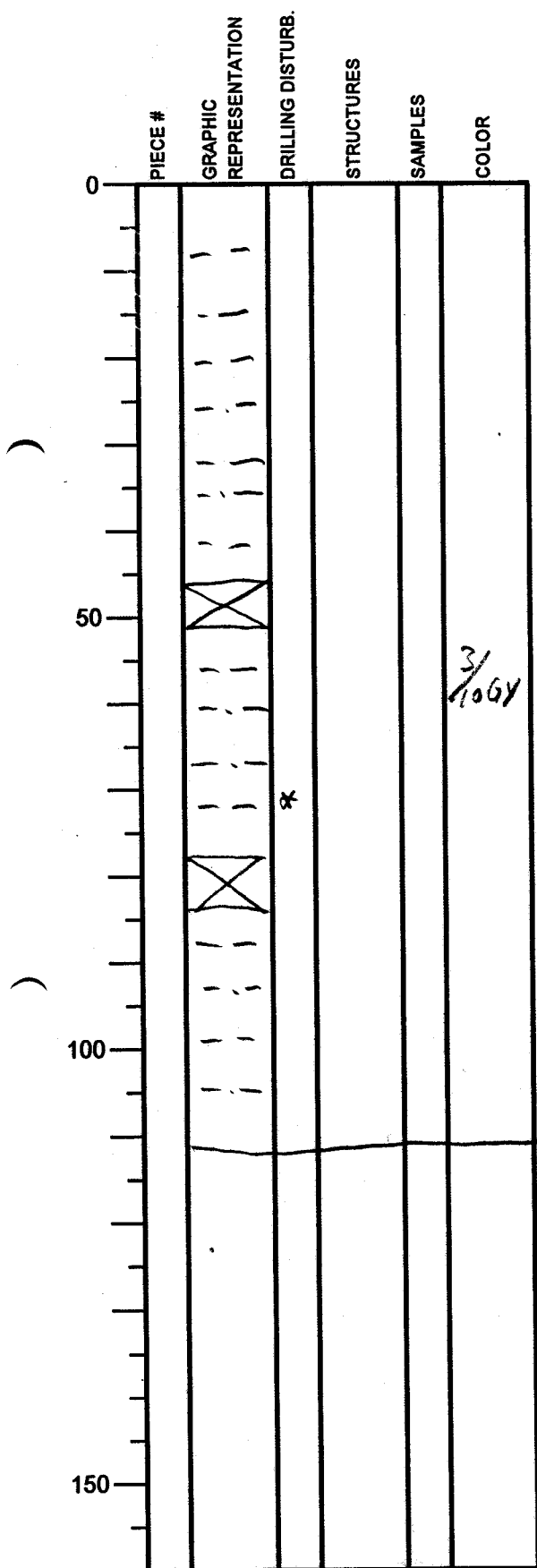
EOC = 23.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 179
 DATE: 12/21/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 21H
 SECTION: 05
 TOP DEPTH (m CSF):

OBSERVER: S. Gao



SECTION DESCRIPTION

Silt & clay, with
 dark colored ash
 layers and light
 colored (pumice)
 material at
 31-37 cm.

-(SS = 72 cm)

EOC = 111 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 180
 DATE: 18/14/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 21H
 SECTION: CC-AA
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						4/10GY
50						
100						
150						

SECTION DESCRIPTION

silty clay.

OBSERVER: S. Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 181
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: CoolBA
 CORE: 22
 SECTION: 1
 TOP DEPTH (m CSF): 178.91 m

OBSERVER: T. MUES

SECTION DESCRIPTION

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0	(Hand-drawn squiggly lines)	(Dashed line)	(Hand-drawn squiggly lines)		
50	(Hand-drawn squiggly lines)		(Hand-drawn squiggly lines)	1067 4/12	
100					
150					

Silty clay - low white bedding

Silty clay

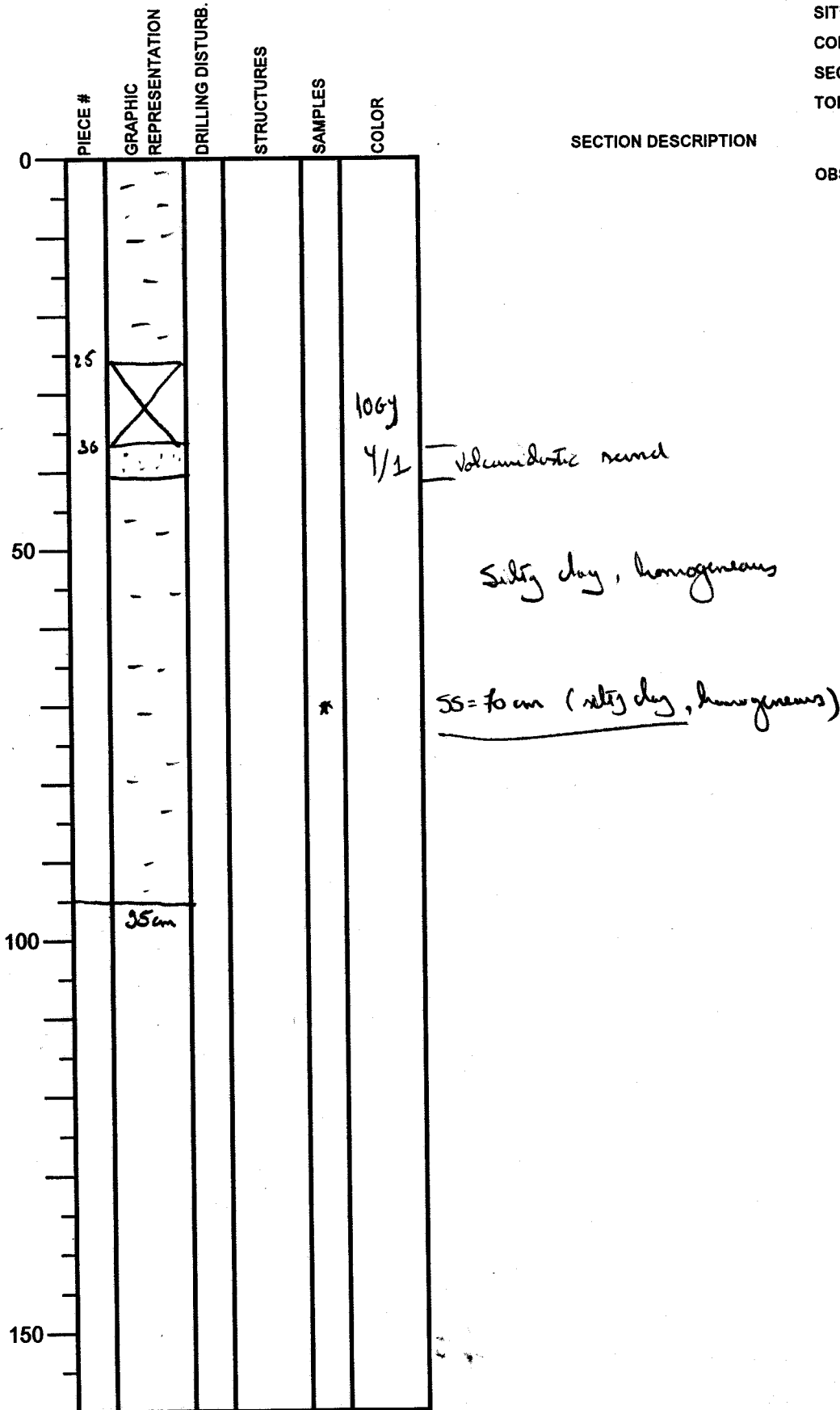
46 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 182
 DATE: 18/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 22H
 SECTION: 2
 TOP DEPTH (m CSF): 178.91m

OBSERVER: T. pluto



Integrated Ocean Drilling Program

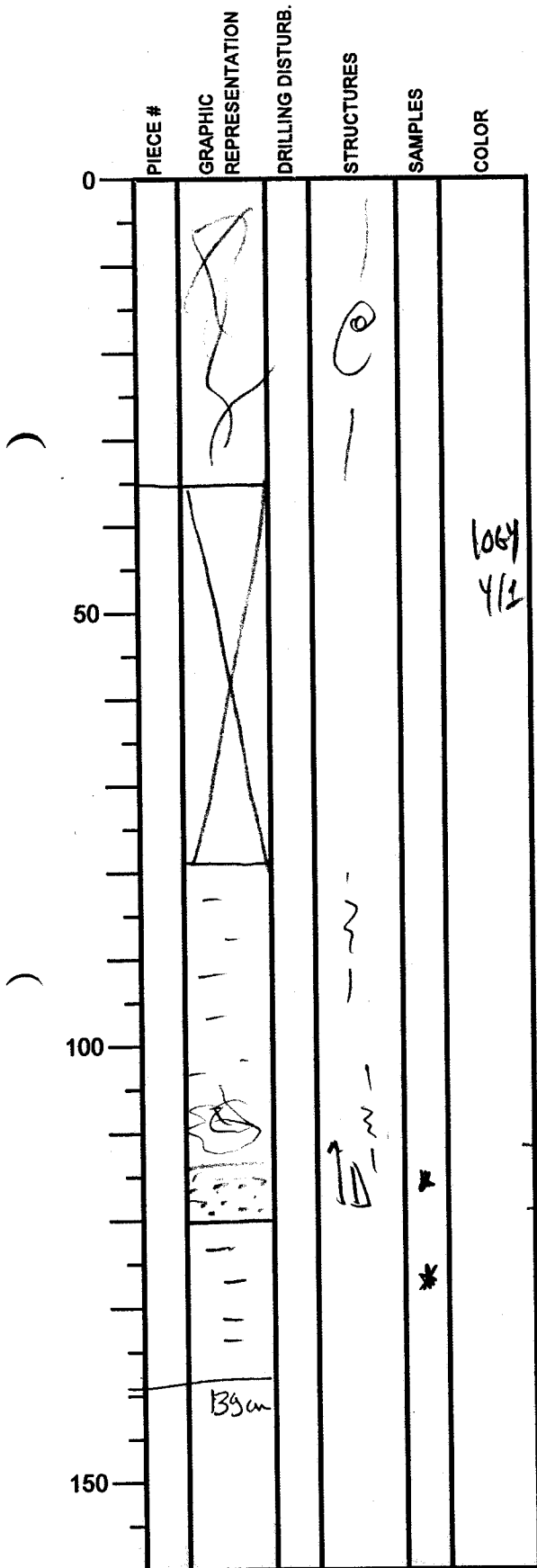
Visual Core Description

NO. 187
 DATE: 10/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 22H
 SECTION: 7
 TOP DEPTH (m CSF): 181.84 m

SECTION DESCRIPTION

OBSERVER:

Silty clay - chaotic / convoluted bedding



Silty clay. Some concretion before volcanoclastic sand
 volcanoclastic sand SS = 120cm (volcan. sand)
SS = 134 cm (hemipelagic mud, homogeneous)

Integrated Ocean Drilling Program Visual Core Description

NO. 100
 DATE: 10/12/2010
 EXP.: 333
 SITE/HOLE: CODBA
 CORE: 22
 SECTION: 8
 TOP DEPTH (m CSF): 103.81m

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0)				
50)				1067 4/2
100)				
150)				

SECTION DESCRIPTION

OBSERVER: T. *amb*

Silty clay. No lamination
 at 13cm.
 Mottled by ash.

**Integrated Ocean Drilling Program
Visual Core Description**

NO. 189
 DATE: 11/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 22H
 SECTION: 9
 TOP DEPTH (m CSF): -~~1~~
 183.81
 OBSERVER: JAL

SECTION DESCRIPTION

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
				*	106Y-4/1
50			VOID		
			VOID		
100					
150					

* Smear slide ab 27cm

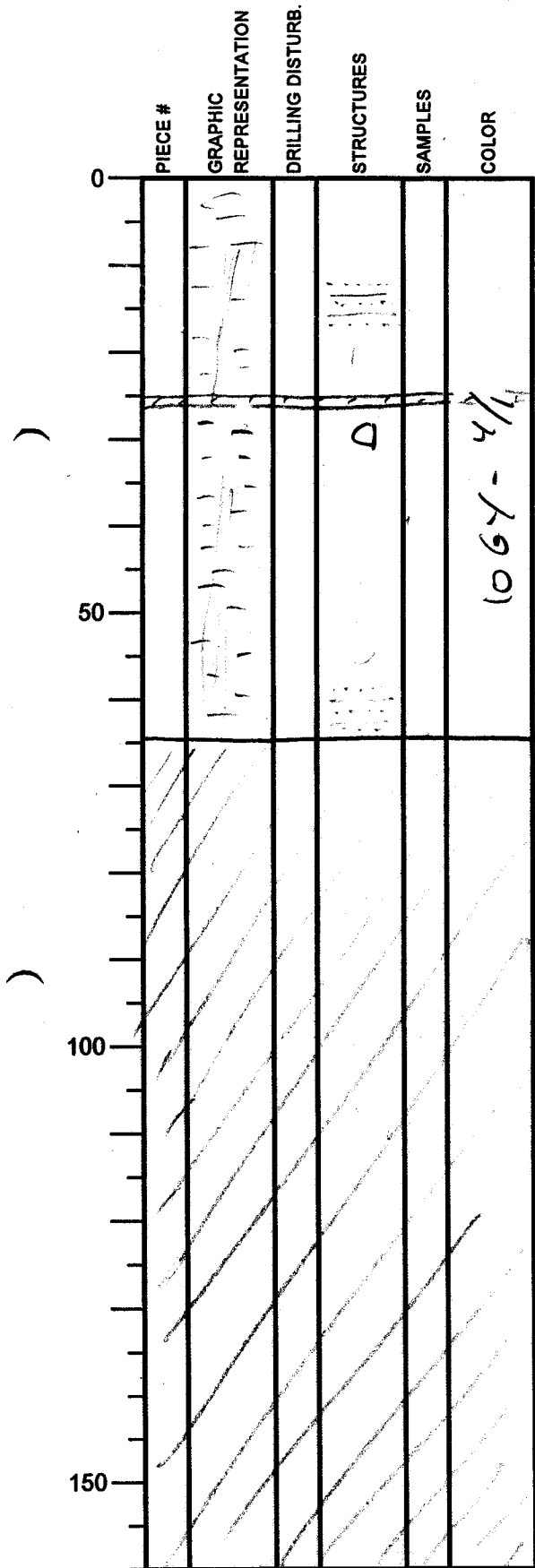
Dark greenish gray sandy clay, the presence of sand is probably ash vertical color bands, could be primary structures related to the HTD or inflow?

EOC = 99 cm

Integrated Ocean Drilling Program
Visual Core Description

NO. 190
DATE: 11/12/2010
EXP.: 333
SITE/HOLE: C00186A
CORE: 22H
SECTION: 10
TOP DEPTH (m CSF):
184.805 m
OBSERVER:
JAL

SECTION DESCRIPTION



void
Patch of ash

Dark greenish gray sandy clay

Vertical color banding could be primary structures related to the OED or inflow?

ECC = 64.5 m

Integrated Ocean Drilling Program Visual Core Description

NO. 191
 DATE: 19/14/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 22H
 SECTION: 11
 TOP DEPTH (m CSF):
 185.16 ~
 OBSERVER:

Jan L.

SECTION DESCRIPTION

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
		■			
		■			
		▲			
		▲			
50					
			↘		
100					
					106Y-4/1
150					

VOID
 VOID
 VOID

Dark greenish gray sandy clay

Also in this section vertical color bands related to fine OED or inflow?

EOC = 92 cm

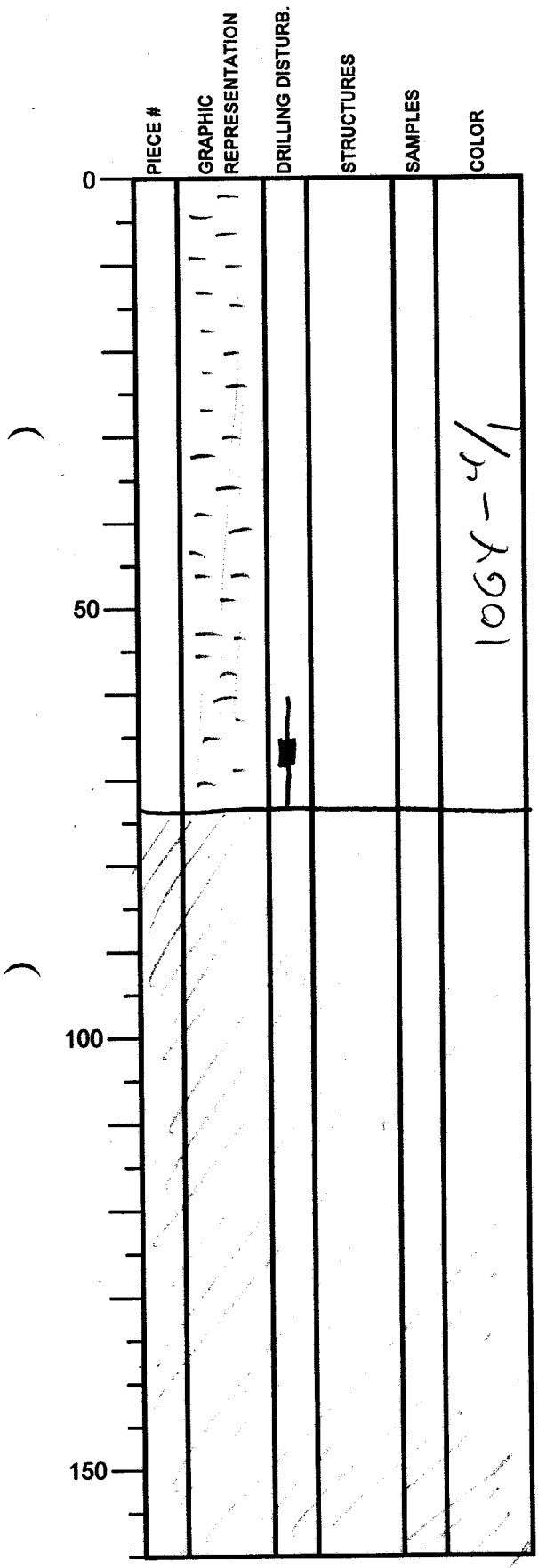
Integrated Ocean Drilling Program

Visual Core Description

NO. 192
 DATE: 11/2/2010
 EXP.: 333
 SITE/HOLE: C00180A
 CORE: 224
 SECTION: 12
 TOP DEPTH (m CSF):
 186.455
 OBSERVER:

SECTION DESCRIPTION

J-L.



COC = 73cm

Dark greenish gray sandy clay
 Also in this section
 vertical color bands
 related to the ODP
 or flow?

Integrated Ocean Drilling Program

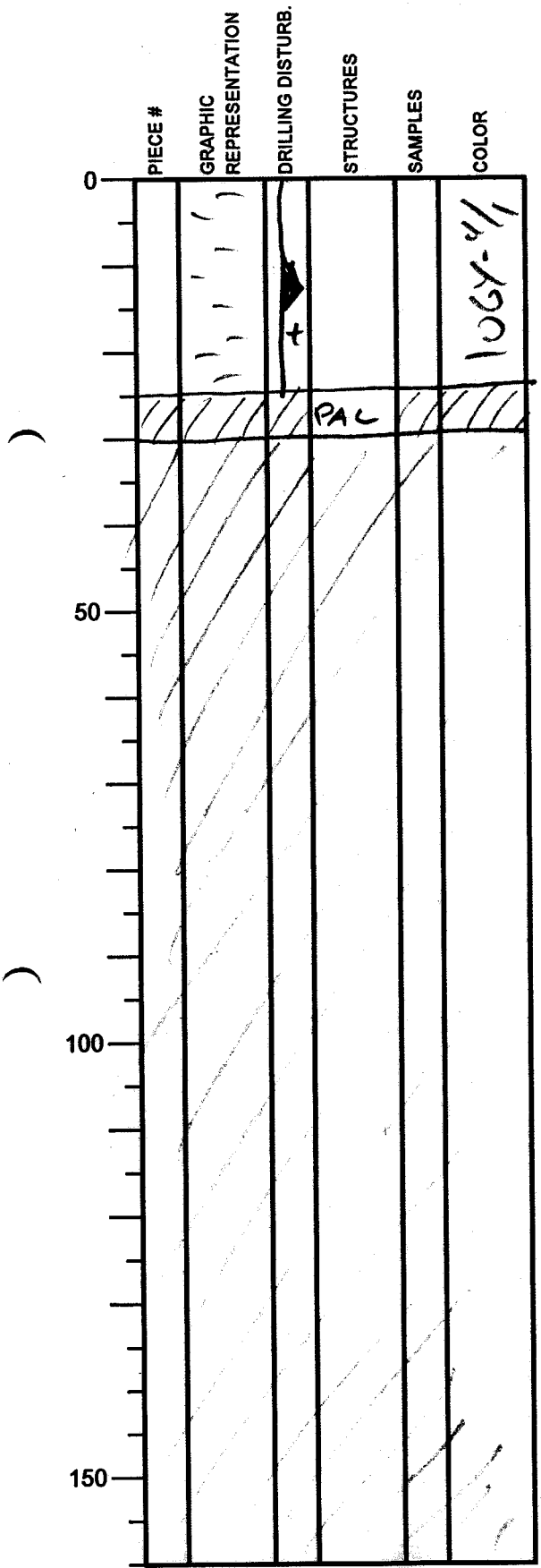
Visual Core Description

NO. 193
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 224
 SECTION: CC
 TOP DEPTH (m CSF):

187.19

OBSERVER: *gal*

SECTION DESCRIPTION



Severely disturbed
 dark greenish gray
 sandy clay

EOC = 30 cm

Integrated Ocean Drilling Program
Visual Core Description

NO. 199
DATE: 9/12/2010
EXP.: 333
SITE/HOLE: C0018A
CORE: 23H
SECTION: 1
TOP DEPTH (m CSF):
187.95
OBSERVER:

J. C.

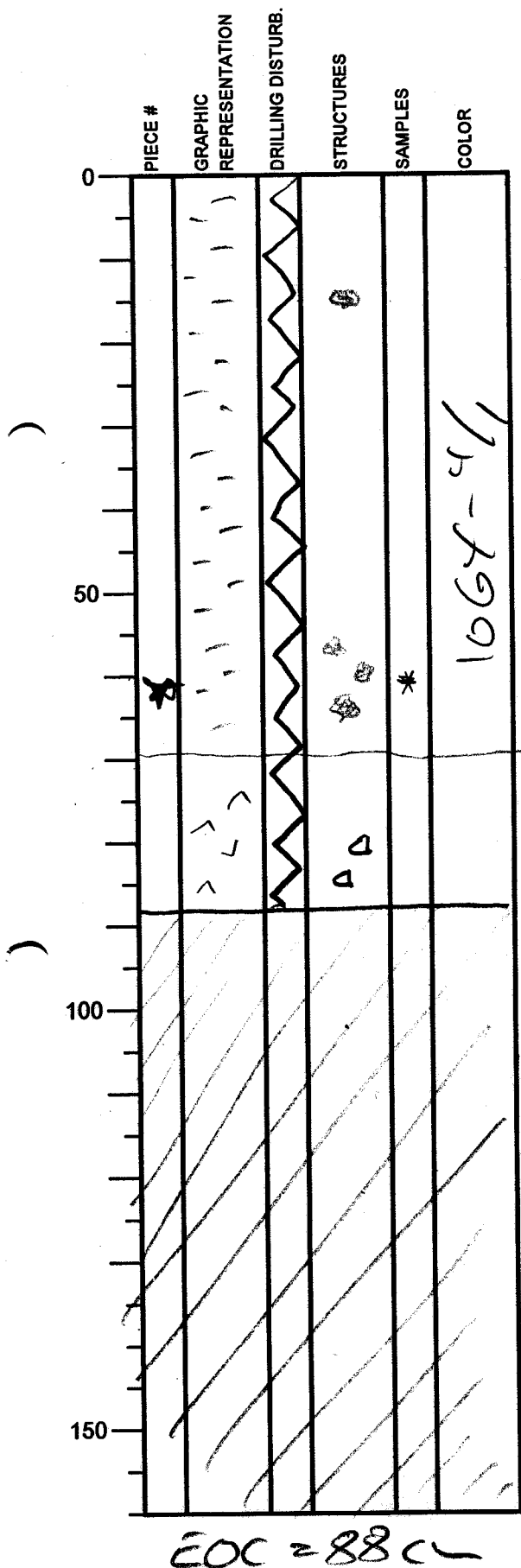
SECTION DESCRIPTION

Smear slide at 61cm

Section very fractured at this depth but the base of the sandy clay seems to be at about 69cm

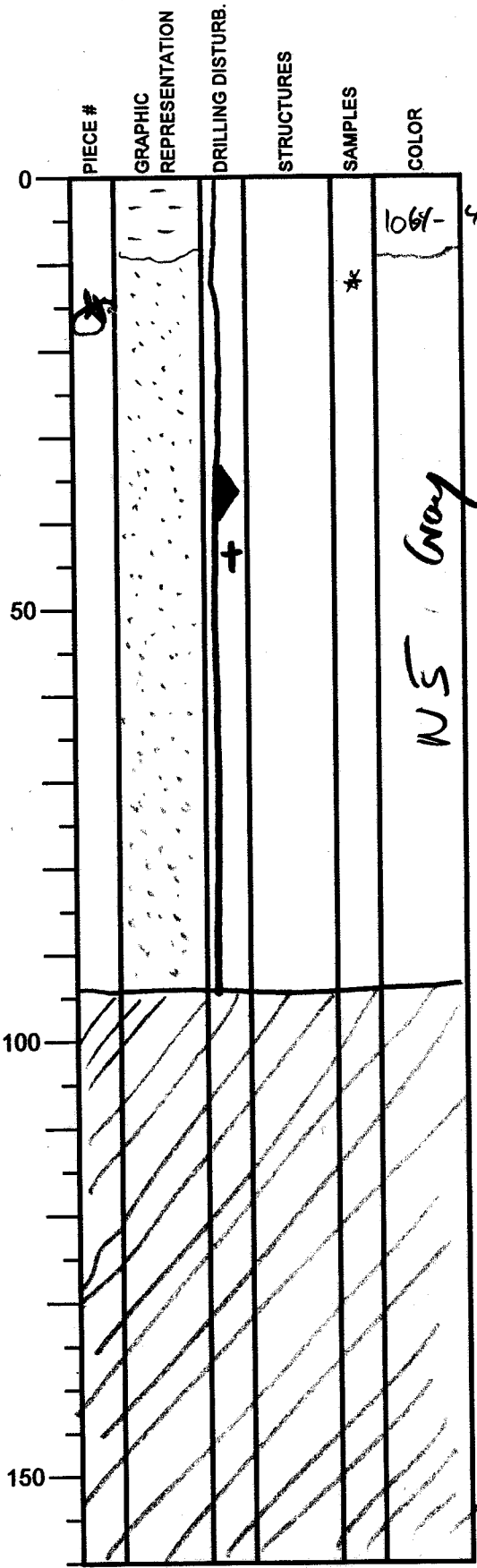
Below → ash dominates
Patches of light gray ash within the gray ash

Heavily fractured dark greenish gray sandy clay with some color mottling, at the base (below - 69cm) ash layer disturbed during the coring process



Integrated Ocean Drilling Program
Visual Core Description

NO. 195
DATE: 11/20/2010
EXP.: 333
SITE/HOLE: C0018A
CORE: 23H
SECTION: 2
TOP DEPTH (m CSF): 188.835
OBSERVER: JEL



SECTION DESCRIPTION

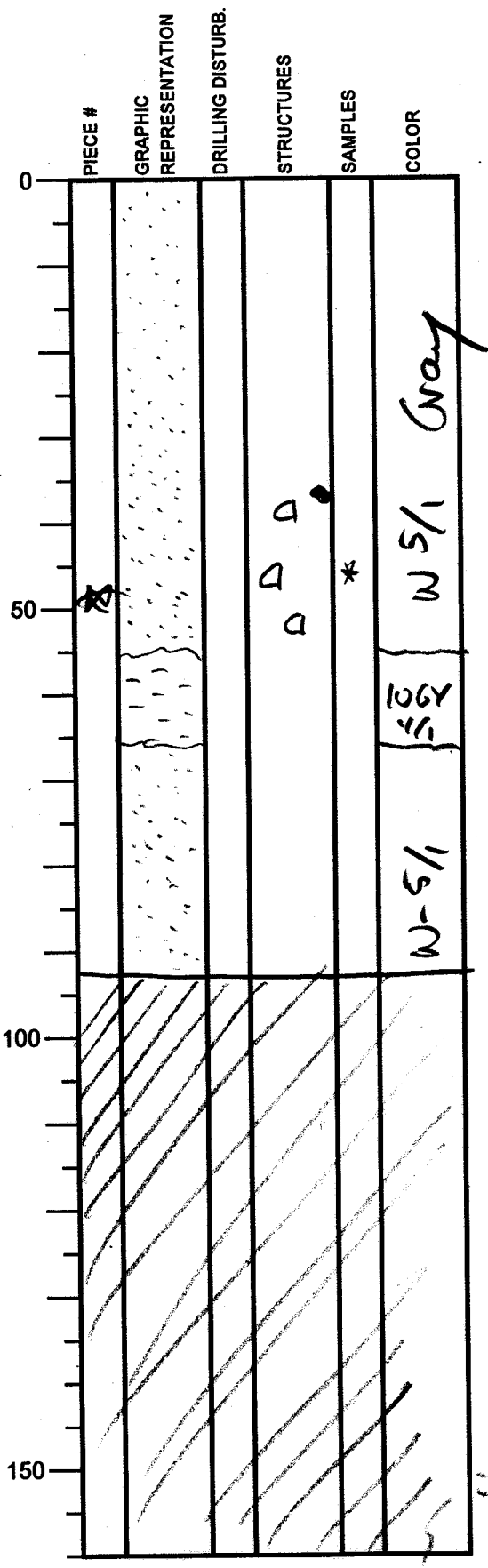
* Smear slide at 15cm

Heavily disturbed (during coring) gray sandy ash (fine-very fine sed) with dark greenish gray clay at the top of the section

EOC = 94 cm

Integrated Ocean Drilling Program
Visual Core Description

NO. 196
DATE: 1/12/2010
EXP.: 333
SITE/HOLE: C0018A
CORE: 230A
SECTION: 3
TOP DEPTH (m CSF):
189.785 m
OBSERVER:
JCL



SECTION DESCRIPTION

outsized clast at 36cm
Patches of light gray ash

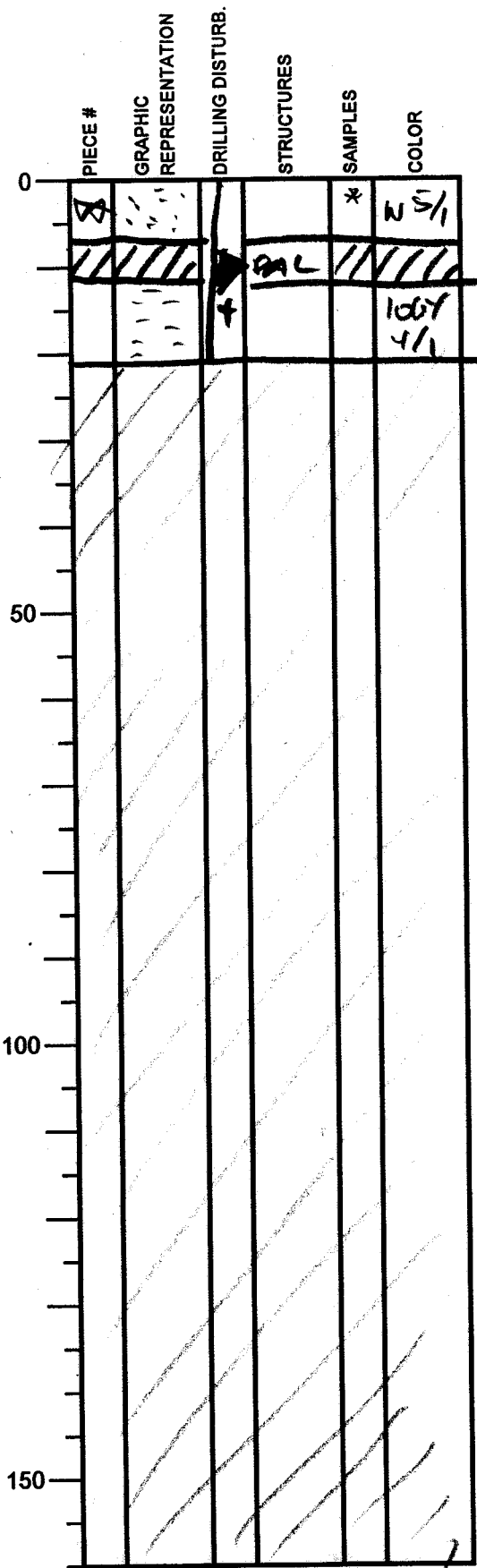
Smear slide at 49cm

Heavily disturbed (during coring) gray sandy ash with a 10cm interval of dark greenish gray clay and patches of light gray ash.

EOC = 92.5m

Integrated Ocean Drilling Program Visual Core Description

NO. 197
 DATE: 11/2/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 23H
 SECTION: CC
 TOP DEPTH (m CSF): 190.715 m
 OBSERVER: J.C.L.



SECTION DESCRIPTION

~~*~~ Smear slide at 9cm

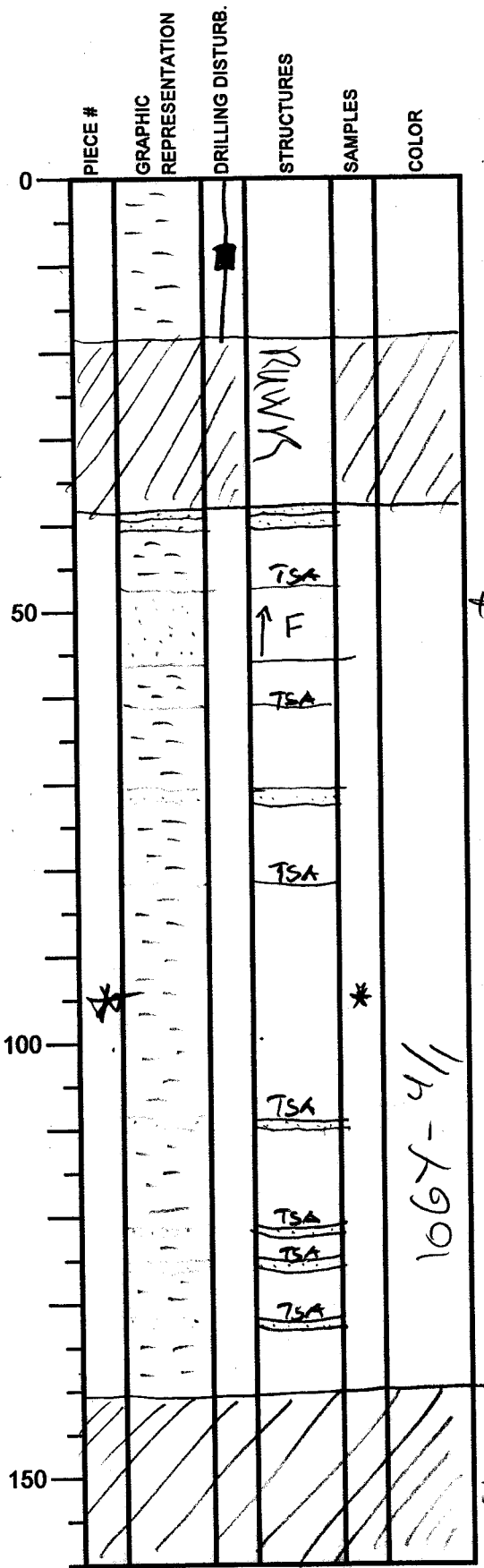
Heavily disturbed CC
 sample consisting
 gray sandy ash overlain
 dark greenish gray clay

EOC = 20.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 118
 DATE: 11/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 24T
 SECTION: 1
 TOP DEPTH (m CSF): ~~190.65~~
 190.65 m
 OBSERVER:



SECTION DESCRIPTION

Jan L.

TSA: thin sandy ash layer

High water content, may be a result of the coring process?

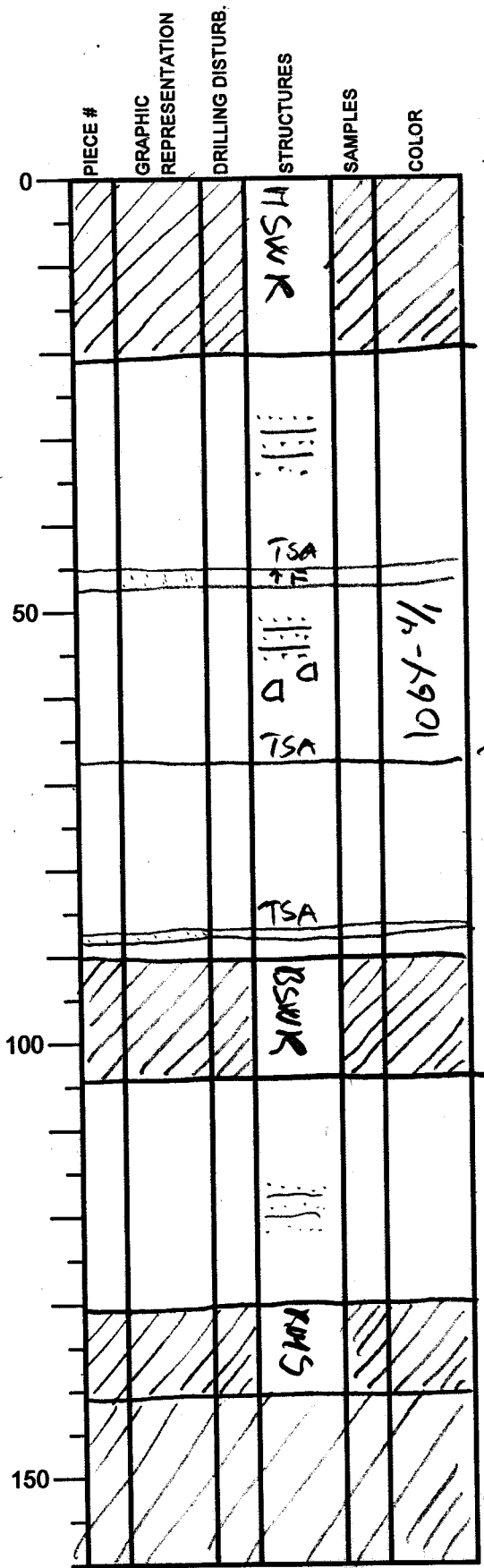
~~SM~~ Smear slide at 95 cm

Dark greenish gray clay consisting of several thin and one thicker sandy ash layers. Many have a sharp base indicating that they may be turbidites within a hemipelagic succession.

EOC = 140.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 199
 DATE: 11/2/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 24T
 SECTION: 2
 TOP DEPTH (m CSF): -▲
 192.055
 OBSERVER: J. L.



SECTION DESCRIPTION

TSA thin sandy ash layer

Thin sandy ash

Color banding

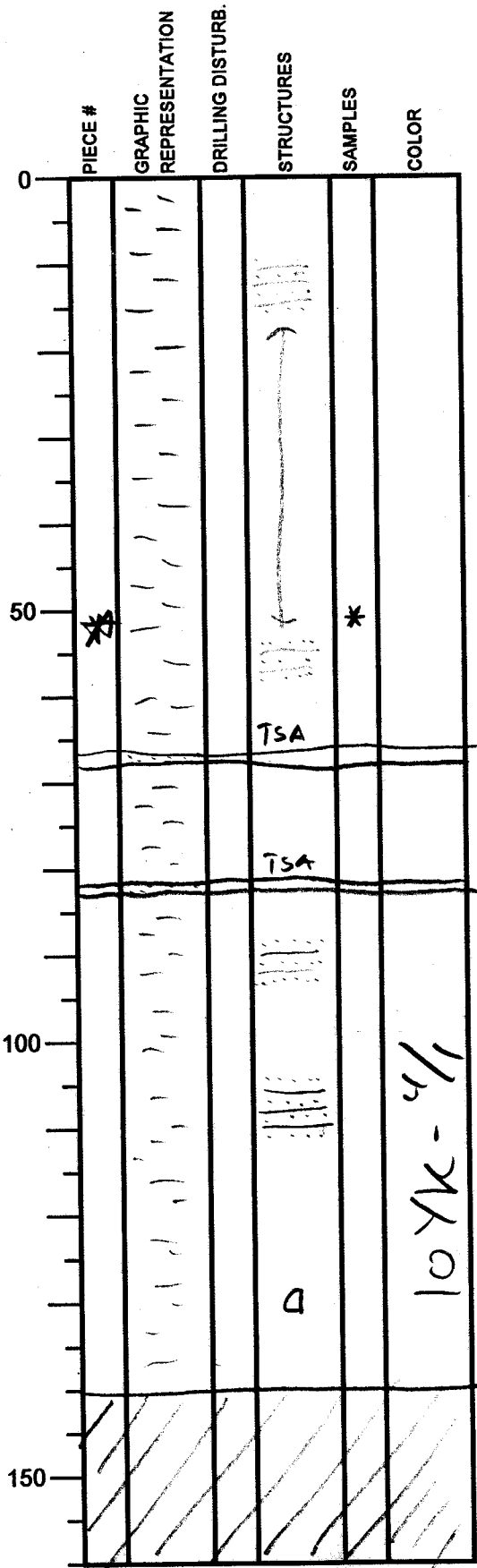
Dark greenish gray clay with color banding and patches of ash and including several thin sandy ash layers, some with a sharp base and fining upward.

Ash and white ash in a hemipelagic succession

EOC 2 141 C

Integrated Ocean Drilling Program
Visual Core Description

NO. 200
DATE: 11/12/2010
EXP.: 333
SITE/HOLE: C0018A
CORE: 247
SECTION: 4
TOP DEPTH (m CSF): - 193.715
OBSERVER: J.L.



SECTION DESCRIPTION

TSA = thin sandy ash layer

* Smear slide at 52 cm

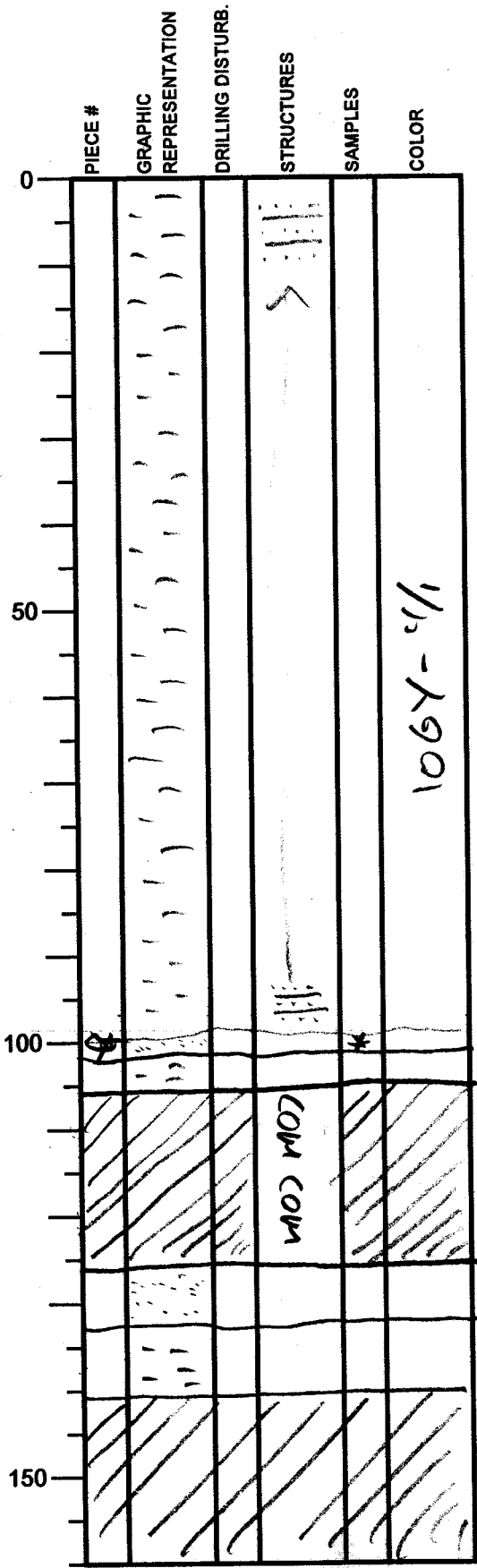
Dark greenish gray clay with color banding and patches of ash and includes two thin sandy ash layers

=> Ash and/or turbiditic ash in a hemicyclic succession

EOC = 140 cm

Integrated Ocean Drilling Program
Visual Core Description

NO. 201
DATE: 11/14/2010
EXP.: 333
SITE/HOLE: C0018A
CORE: 24T
SECTION: 5
TOP DEPTH (m CSF): -★
195.145 m
OBSERVER:
J. L.



SECTION DESCRIPTION

☒ Smear slide ab 100 cm

Dark greenish gray clay with color banding and including two thin sandy ash layers

⇒ Ash and/or ferrihydric ash in a hemipelagic succession.

EOC = 141 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 202
 DATE: 11/2/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 24T
 SECTION: 6
 TOP DEPTH (m CSF): -A
 116.555m
 OBSERVER: JAL

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			TSA		
			TSA		
			TSA		
			TSA		
			TSA		
50					log 4/1
100					
150					

SECTION DESCRIPTION

TSA = Thin sandy ash

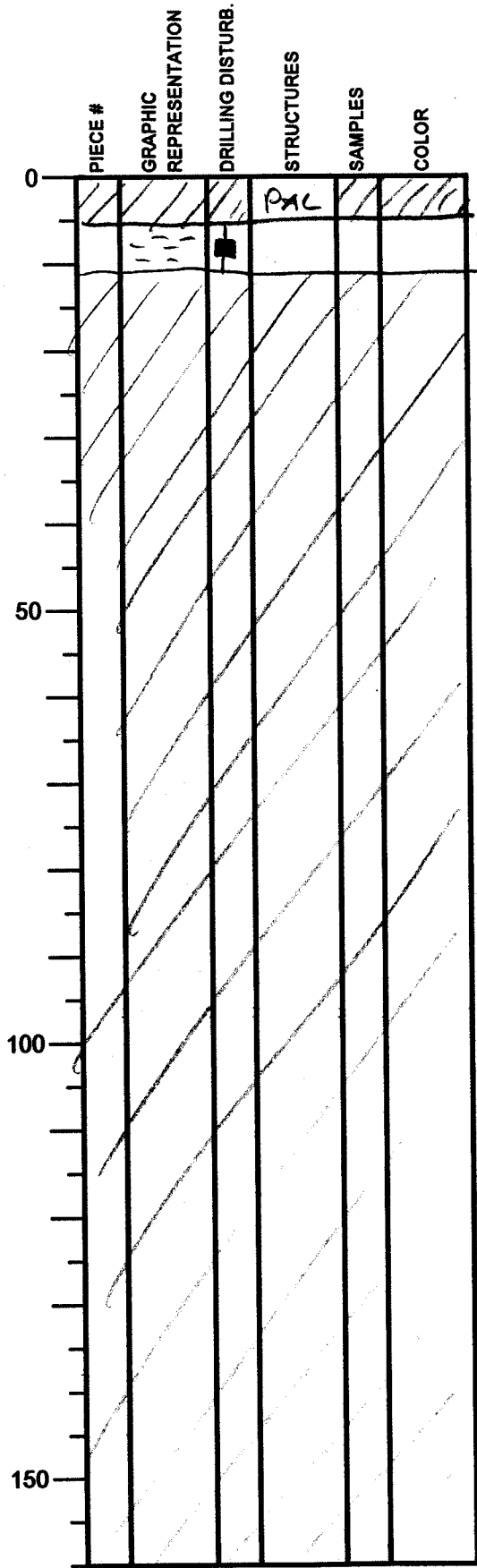
Dark greenish gray clay including several thin sandy ash layers
 ⇒ Ash and/or turbiditic ash in a hemipelagic succession.

EOC = 57cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 203
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 24T
 SECTION: CC
 TOP DEPTH (m CSF): -A
 197.13
 OBSERVER: JAL



1067-4/1

Dark gray sandy clay

EOC = 12 cm

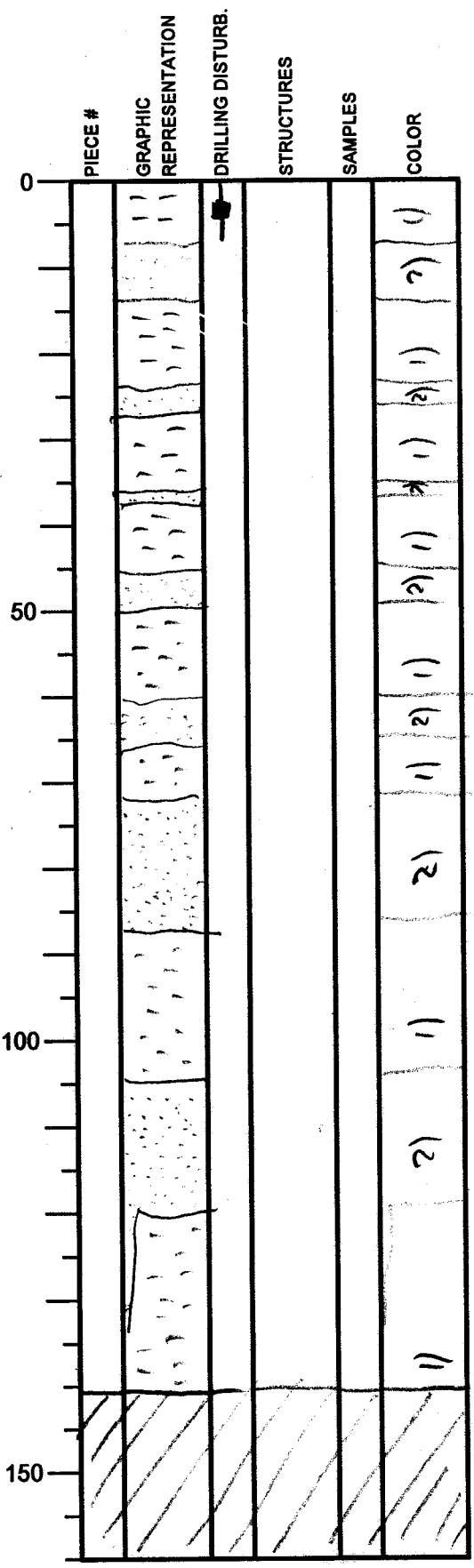
Integrated Ocean Drilling Program

Visual Core Description

NO. 204
 DATE: 11/2/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 25
 SECTION: 1
 TOP DEPTH (m CSF): -A
 200.15

OBSERVER: JCL

SECTION DESCRIPTION



Color:
 1) 10GY - 4/1 } Dark greenish
 2) 10GY - 3/1 } gray

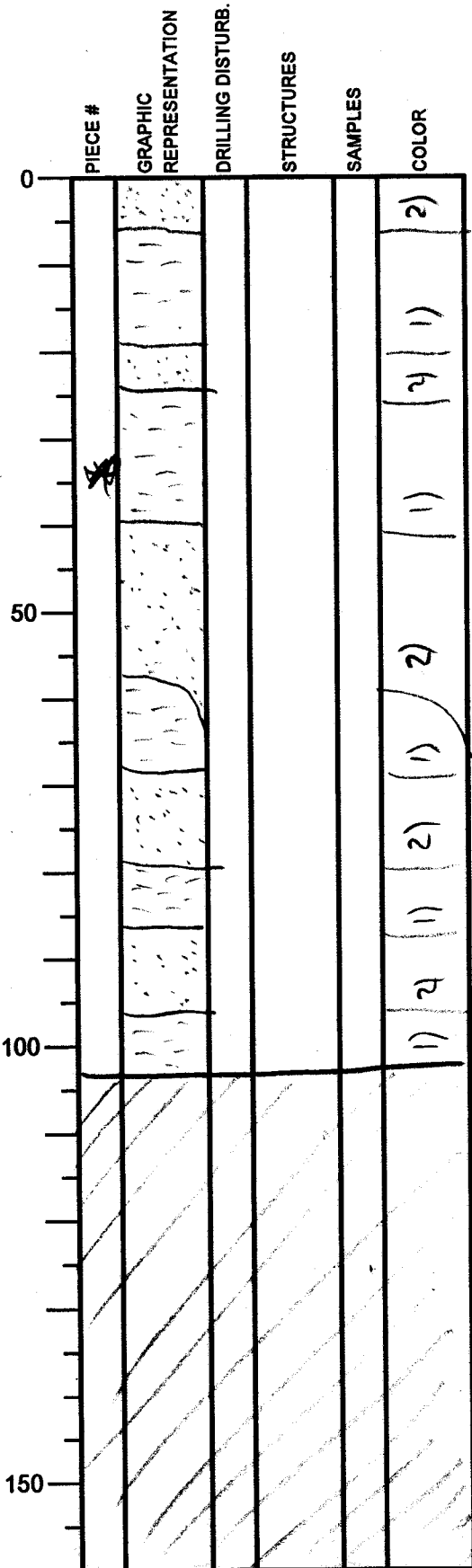
Dark greenish gray clay
 consisting a number of slightly
 darker greenish gray
 sandy ash layers

EOC = 141 cm

Integrated Ocean Drilling Program
Visual Core Description

NO. 205
DATE: 19/10/2010
EXP.: 333
SITE/HOLE: COO18A
CORE: 25
SECTION:
TOP DEPTH (m CSF): 201.56
OBSERVER: JAL

SECTION DESCRIPTION



Color :
1) 10GY - 4/1 } Dark greenish
2) 10GY - 3/1 } gray

~~*~~ Smear slide at 34cm

Dark greenish gray clay
comprising a number of
slightly darker greenish
gray sandy ash layers

EOC = 103.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 206
 DATE: 11/21/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 27
 SECTION: 1
 TOP DEPTH (m CSF): 219.15

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						4/10GY
						3/10GY
						4/10GY
50						
100						
150						

SECTION DESCRIPTION

Silt & clay.

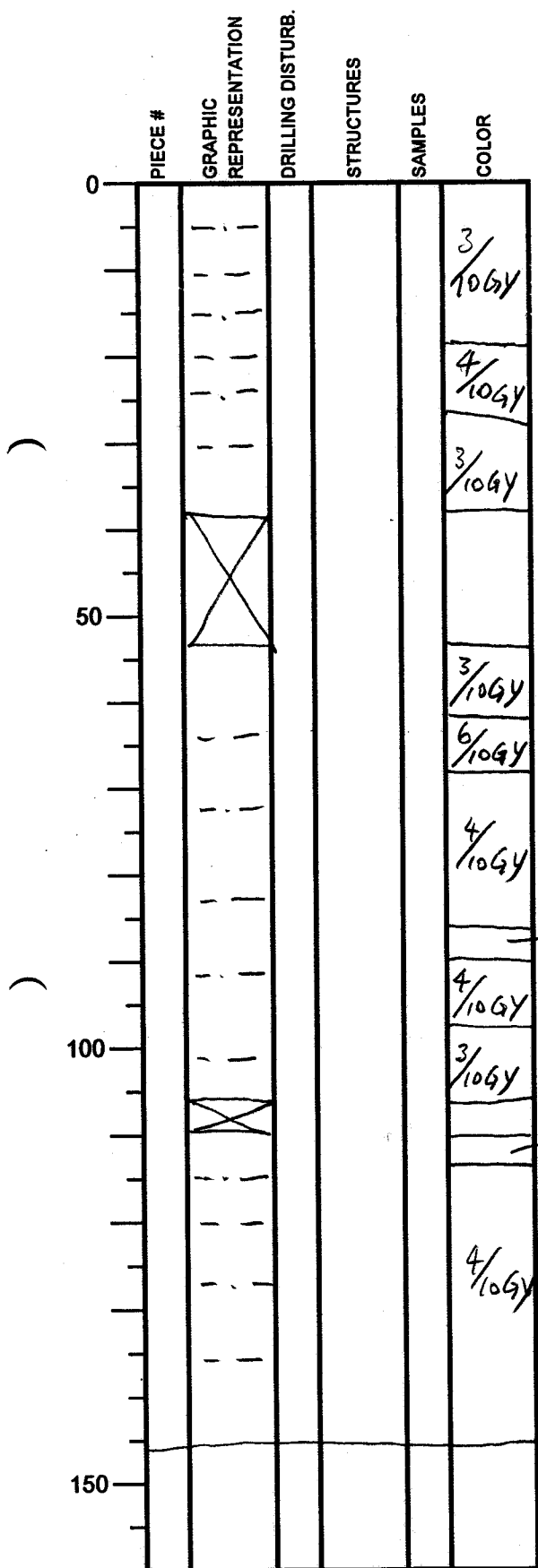
OBSERVER: S. Gao

EOC = 30 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 207
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 277
 SECTION: 02
 TOP DEPTH (m CSF): 219.46



SECTION DESCRIPTION

silt & clay,
 with layered
 color changes.
 Sand content is
 relatively high
 in dark colored
 layers (?).

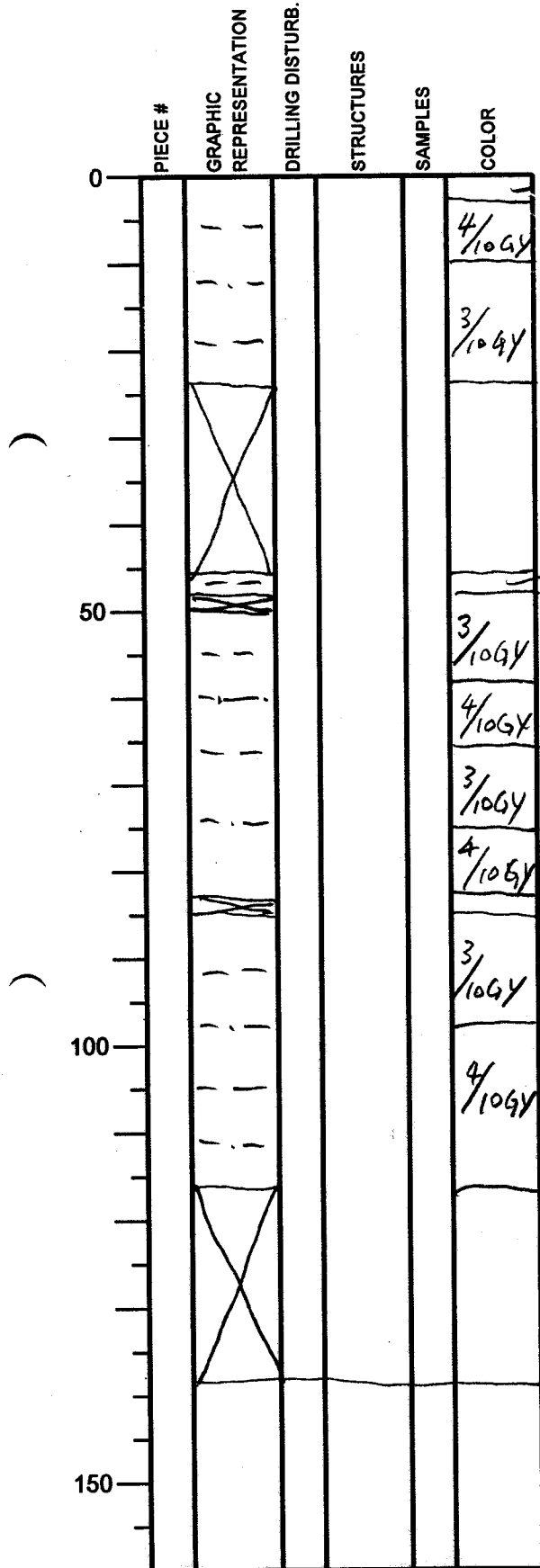
OBSERVER: S. Gao

EOC = 146 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 208
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 27T
 SECTION: 03
 TOP DEPTH (m CSF): 220.925



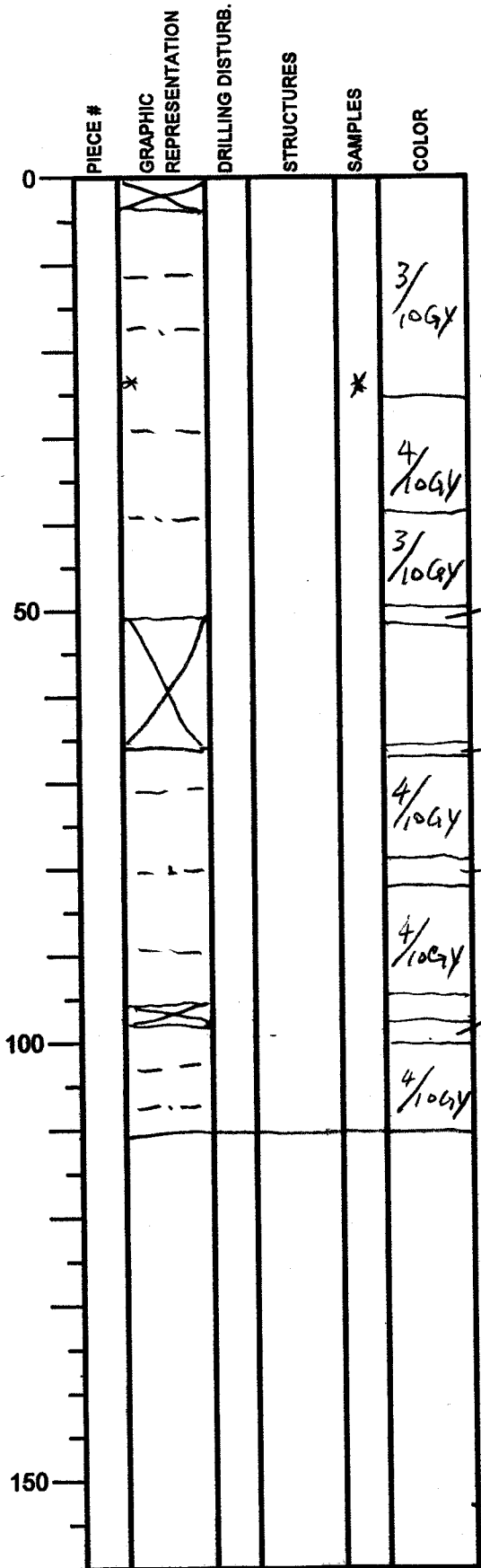
SECTION DESCRIPTION

Silt & clay,
with layered
color changes.

OBSERVER: S. Gao

Integrated Ocean Drilling Program Visual Core Description

NO. 209
 DATE: 11/20/10
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 27T
 SECTION: 04
 TOP DEPTH (m CSF): 222.31



SECTION DESCRIPTION

*silt and clay,
with color
changes in
layers.*

OBSERVER: *S. Gao*

SS = 24cm

EOC = 110.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 209
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 27T
 SECTION: 06
 TOP DEPTH (m CSF): 223.665

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					3/10GY
					4/10GY
					3/10GY
					4/10GY
					3/10GY
					4/10GY
50					4/10GY
					3/10GY
					4/10GY
					3/10GY
					4/10GY
100					3/10GY
					4/10GY
					3/10GY
					4/10GY
150					5/10GY

SECTION DESCRIPTION

Silt & clay,
 with color
 changes in
 layers (dark
 layers represent
 higher volcanic
 sediment content?).

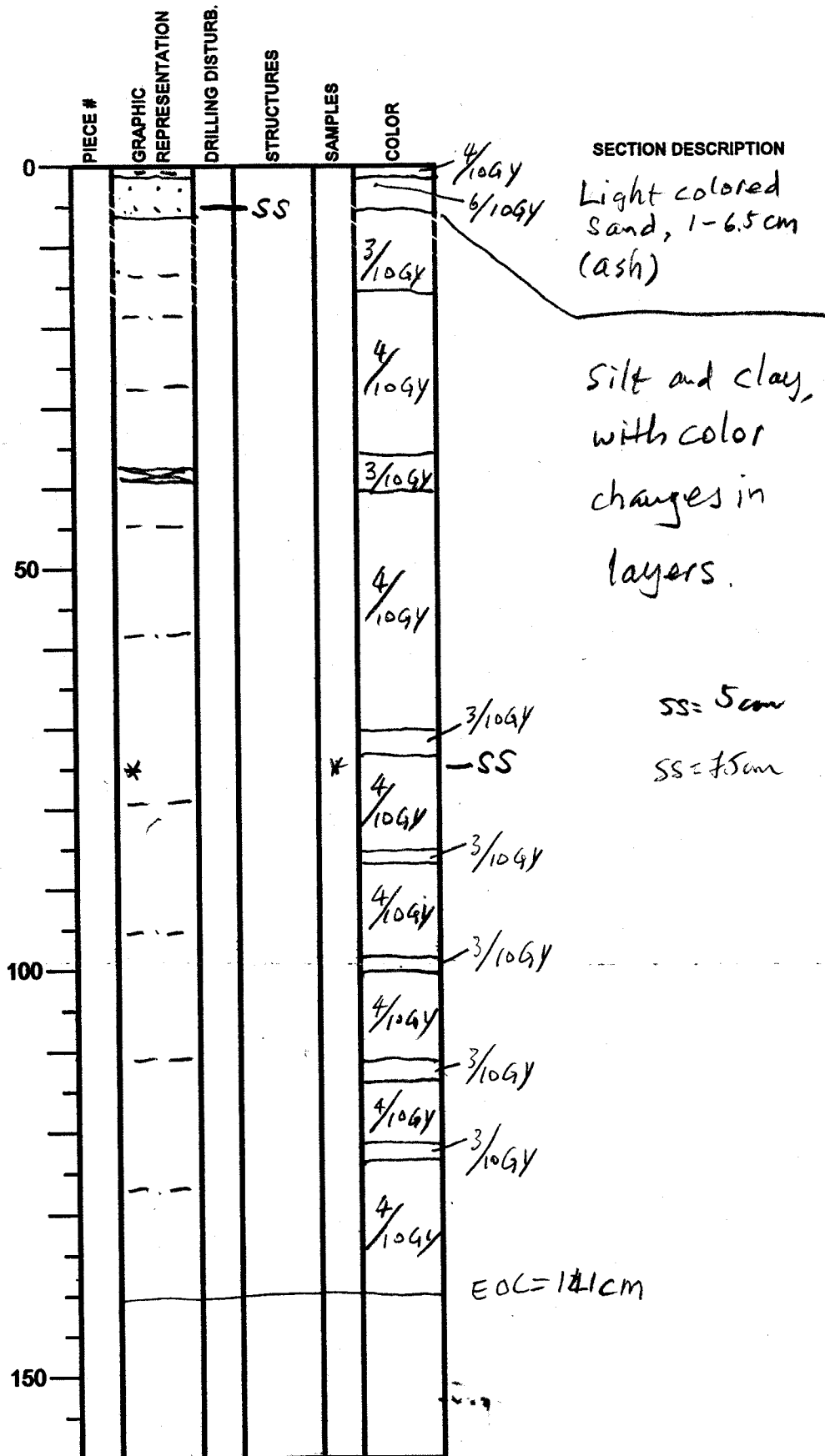
OBSERVER: S. Gao

EOC = 125cm

Integrated Ocean Drilling Program Visual Core Description

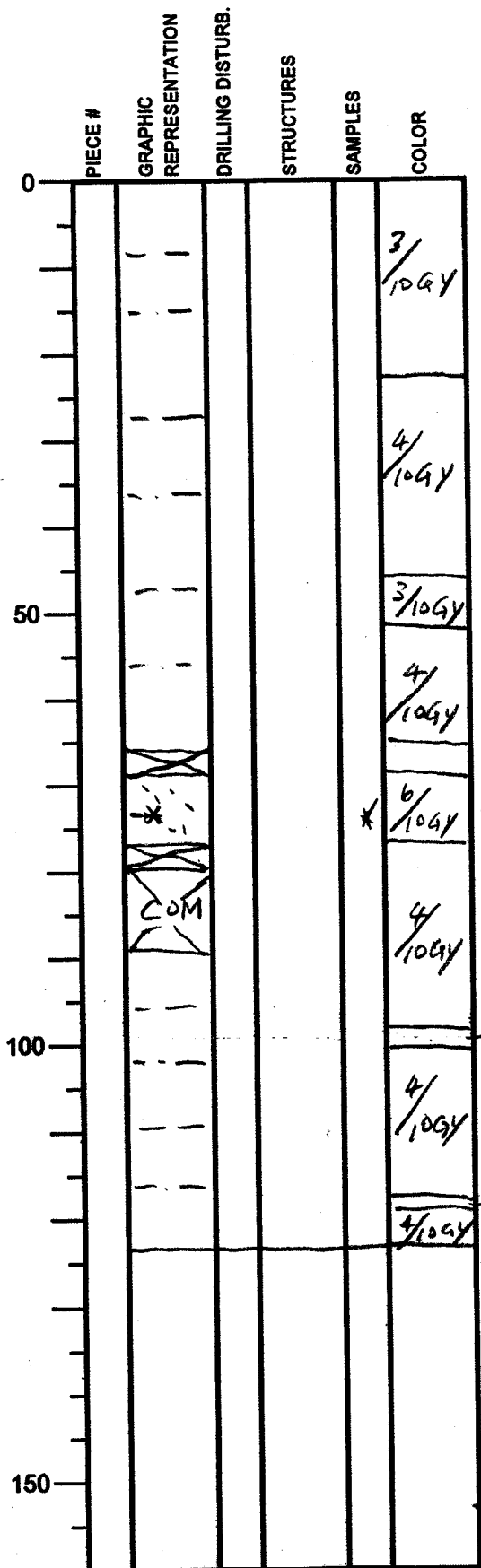
NO. 210
 DATE: 9/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 27T
 SECTION: 07
 TOP DEPTH (m CSF): 224.915

OBSERVER: Sigao



Integrated Ocean Drilling Program Visual Core Description

NO. 211
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 27T
 SECTION: 08
 TOP DEPTH (m CSF): 226.32



SECTION DESCRIPTION

Silt & clay,
with color
change in
layers.

SS Sand (ash)



SS = 73cm (ash)

Silt & clay,
with color
changes in
layers.

OBSERVER: S. Gas

Integrated Ocean Drilling Program Visual Core Description

NO. 212
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 27T
 SECTION: CC-AA
 TOP DEPTH (m CSF): 227.55

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						3/106y
50						
100						
150						

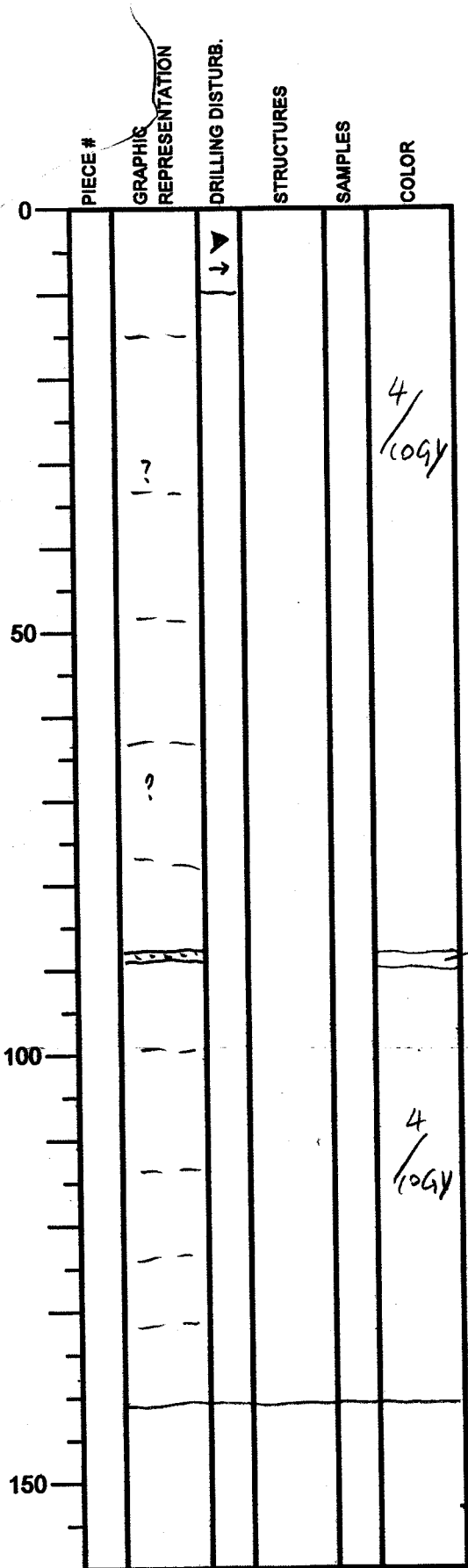
SECTION DESCRIPTION

Silt and clay.

OBSERVER: *S. Gao*

Integrated Ocean Drilling Program Visual Core Description

NO. 213
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 28T
 SECTION: 01
 TOP DEPTH (m CSF): 228.65



SECTION DESCRIPTION

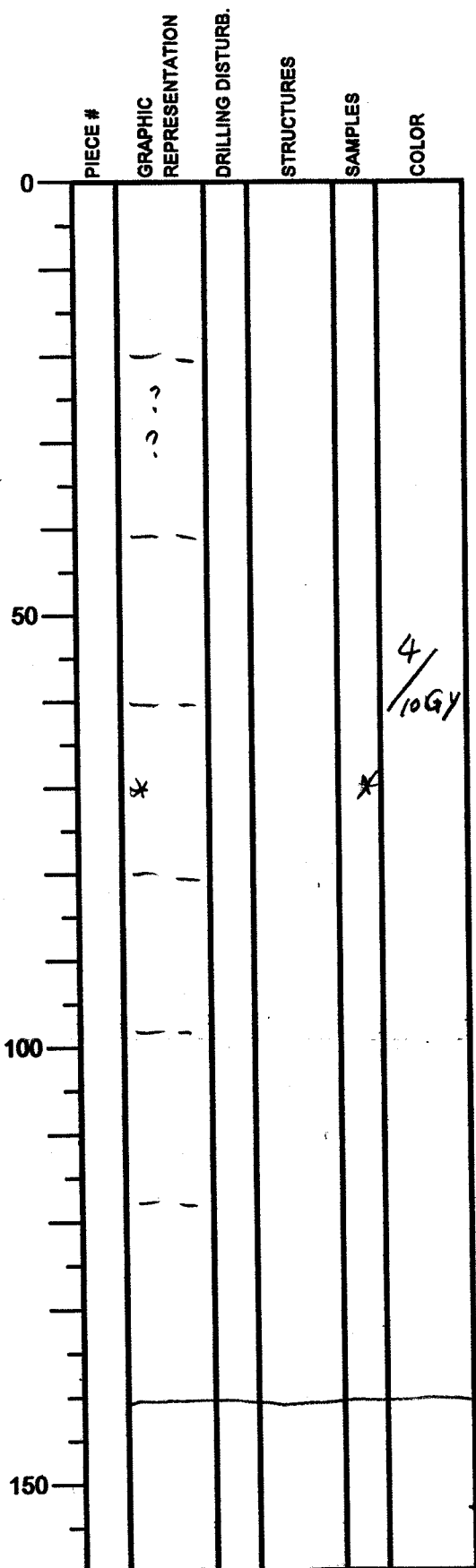
OBSERVER:

Silty clay, layered,
 with ash material
 at 30, 5 and 68 cm. Manganese
 Sandy (white) material
 is present in the
 89-90 cm layer.

Integrated Ocean Drilling Program Visual Core Description

NO. 214
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 28T
 SECTION: 02
 TOP DEPTH (m CSF): 230.06

OBSERVER: S Gao



SECTION DESCRIPTION

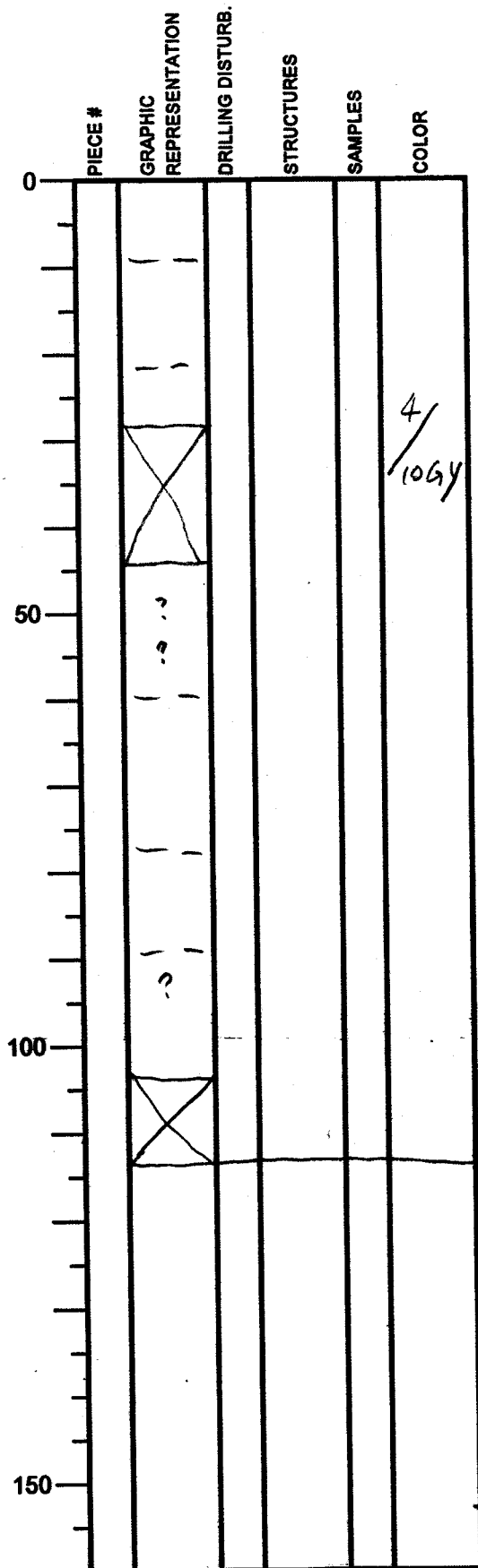
Layered silty
 clay, with ash
 material (sandy)
 at 25.5, 30

SS

SS = foam

Integrated Ocean Drilling Program Visual Core Description

NO. 215
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 28T
 SECTION: 03
 TOP DEPTH (m CSF): 231.465
 OBSERVER: S. Gao



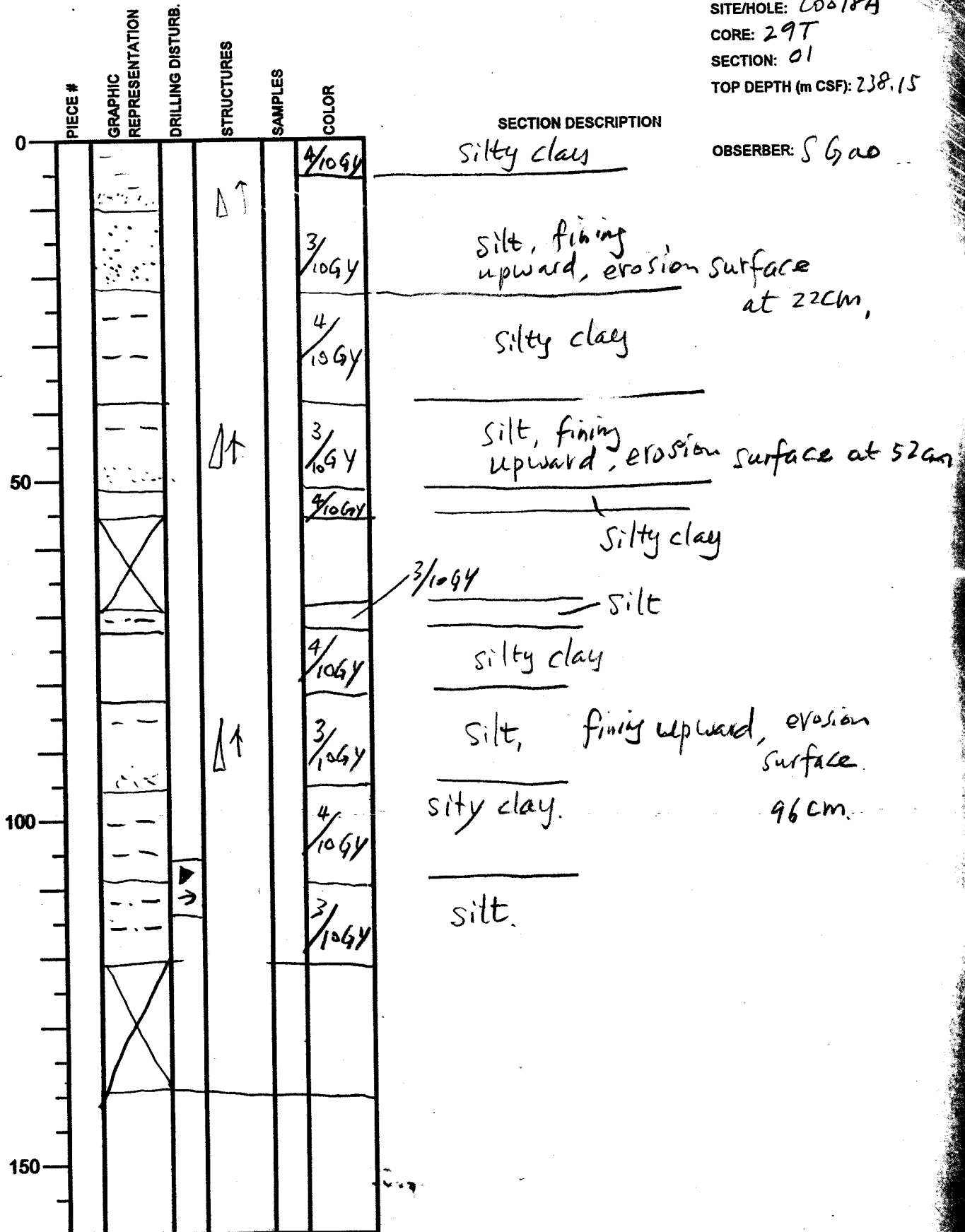
SECTION DESCRIPTION

Layered silty
 clay, with ash
 at 50, 55 and
 94 cm.

EOC = 113cm

Integrated Ocean Drilling Program Visual Core Description

NO. 225
 DATE: 19/14/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 29T
 SECTION: 01
 TOP DEPTH (m CSF): 238.15



OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 226
 DATE: 19/12/2010
 EXP.: 323
 SITE/HOLE: C0018A
 CORE: 29T
 SECTION: 02
 TOP DEPTH (m CSF): 239.535

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			Δ↑		
	(Hand-drawn texture)				3/106Y
	(Hand-drawn texture)				4/106Y
	(Hand-drawn texture)				3/106Y
	(Hand-drawn texture)				3/106Y
	(Hand-drawn texture)		Δ↑		3/106Y
	(Hand-drawn texture)				4/106Y
50					
100					
150					

SECTION DESCRIPTION

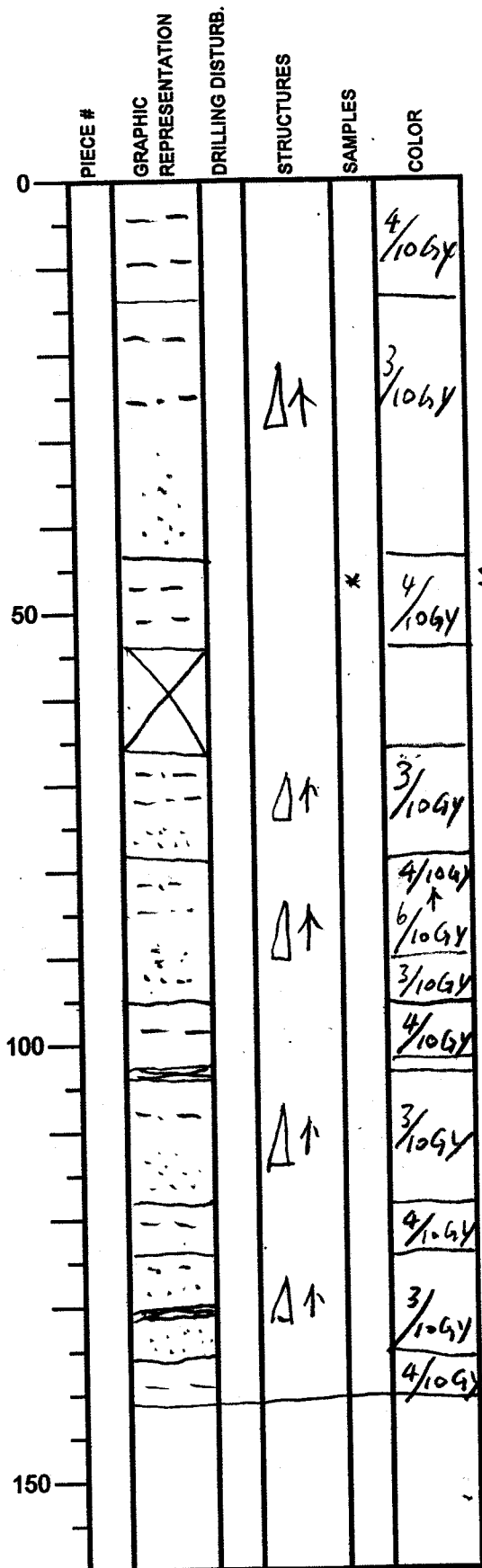
silt, fining upward, with an erosion surface at 11 cm.
 Silty clay
 Silt
 silt, fining upward, an erosion surface at the bottom
 Silty clay

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 227
 DATE: 19/1/2010
 EXP.: 333
 SITE/HOLE: COOL8A
 CORE: 29T
 SECTION: 03
 TOP DEPTH (m CSF): 240.065



SECTION DESCRIPTION

OBSERVER: S Gas

Silty clay.

Fine upward,
silt, erosion surface
at the bottom

Silty clay

* SS=48

Ash, silt, fine upward,
erosion surface at the bottom

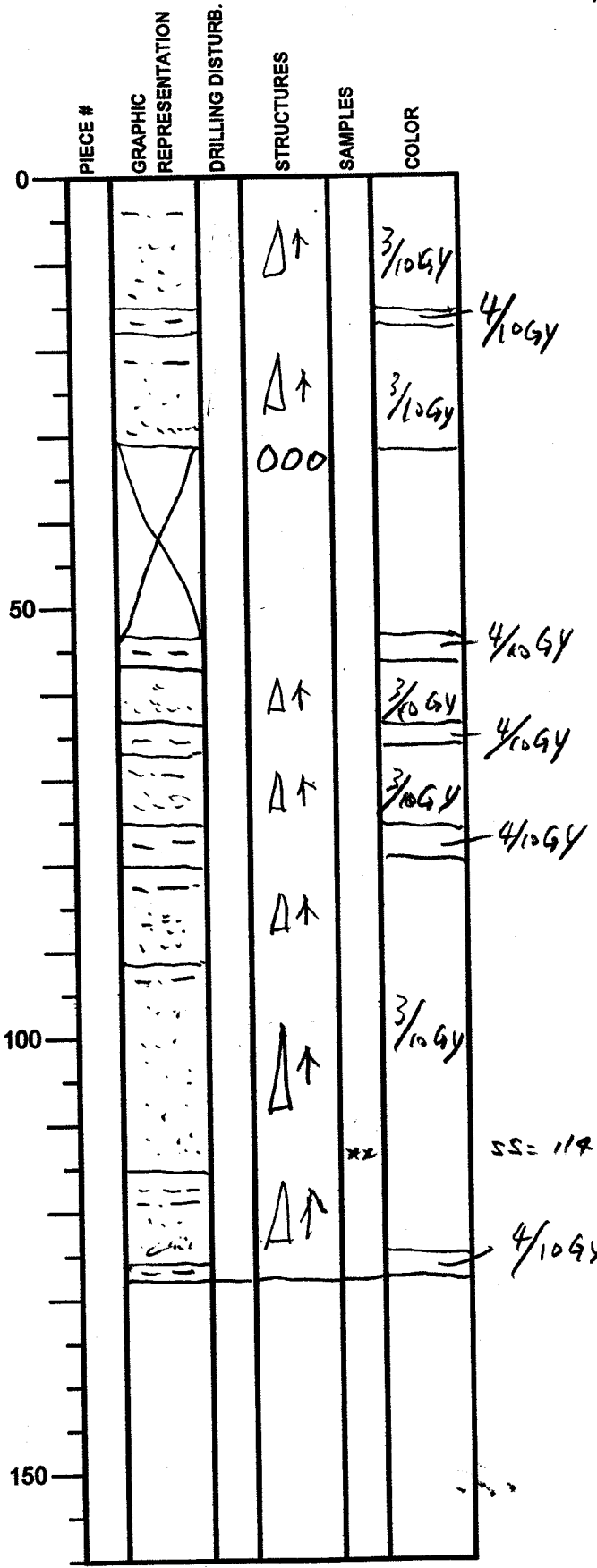
Silt, fine upward ash,
sharp boundary in color
← at 91 cm. erosion surface at bottom.

Silty clay

silt, ash, fine upward,
erosion surface at bottom.

Integrated Ocean Drilling Program Visual Core Description

NO. 228
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: Cool8A
 CORE: 29T
 SECTION: 04
 TOP DEPTH (m CSF): 241.175



SECTION DESCRIPTION

OBSERVER: S Gao

A series of fining
 upward layers, with
 sharp erosion surface
 at the bottoms. In
 66-70cm mud clasts
 (pebbles?) are present.

↓
 Drilling
 artifact!

Integrated Ocean Drilling Program

Visual Core Description

NO. 229
 DATE: 09/21/20 10
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 29T
 SECTION: 05
 TOP DEPTH (m CSF): 242.855

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					3/10GY
			Δ↑		4/10GY ↑
			Δ↑		3/10GY 4/5Y ↑
50			Δ↑		3/10GY 4/10GY ↑
			Δ↑		3/10GY 4/10GY ↑
100					
150					

SECTION DESCRIPTION

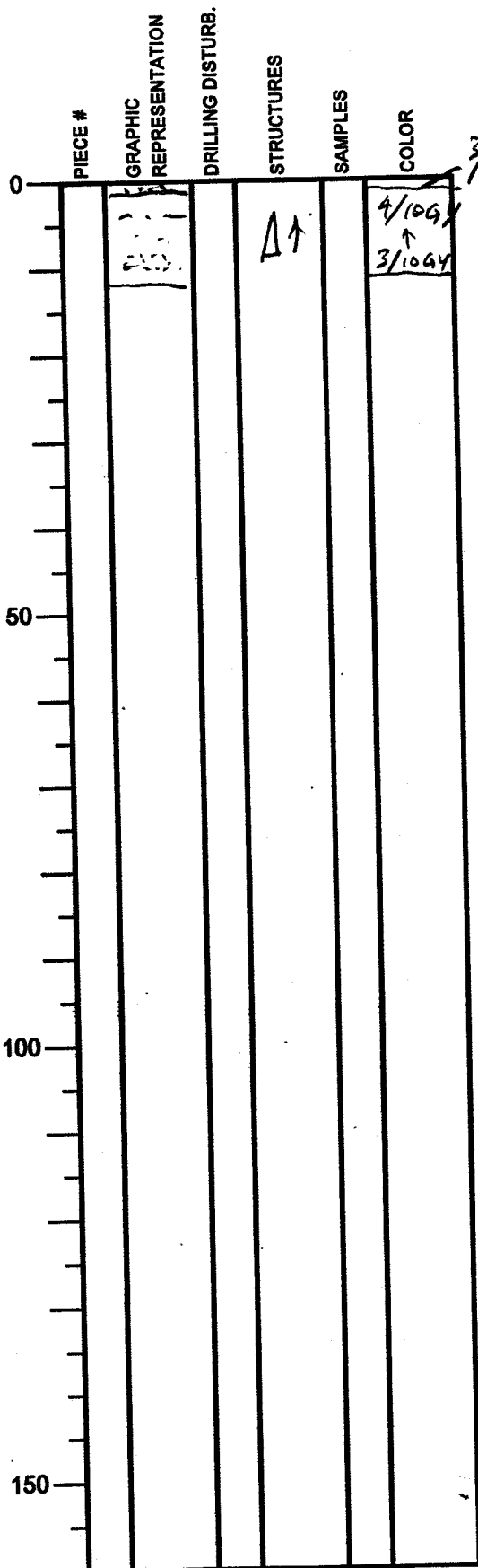
Sandy silt.

OBSERVER: S Gao

A series of fine upward
 sequences, each consists
 of sandy silt at the bottom
 (with sharp erosion surface).
 Color becomes light
 upward.

Integrated Ocean Drilling Program Visual Core Description

NO. 230
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 29T
 SECTION: 07
 TOP DEPTH (m CSF): 244.06



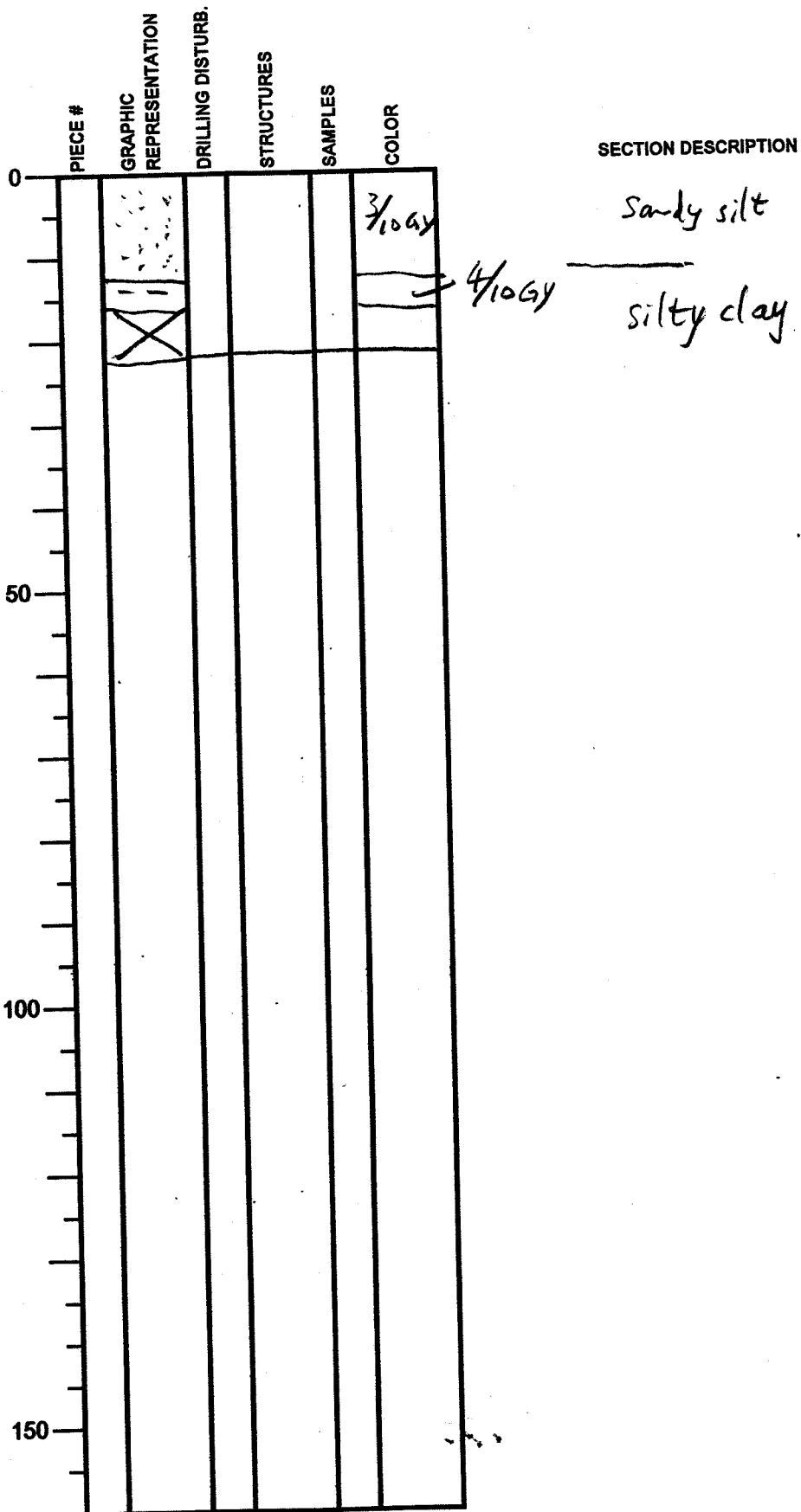
SECTION DESCRIPTION

OBSERVER: S Gao

Top 0.5 cm, sandy
 silt. 0.5 - 12 cm,
 Fining upward sequence,
 sandy silt at the bottom,
 color becomes lighter
 upward.

Integrated Ocean Drilling Program Visual Core Description

NO. 231
 DATE: 19/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 29T
 SECTION: CC-AA
 TOP DEPTH (m CSF): 244.18



OBSERVER: S. Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 232
 DATE: 10/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 30T
 SECTION: 1
 TOP DEPTH (m CSF): 247.65

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					106Y 4/1
16			Δ↑	106Y 3/1	
26			Δ↑	106Y 4/1 106Y 3/1	
				106Y 4/1	
55			Δ↑	106Y 3/1	
				106Y 4/1	
80			Δ↑	106Y 3/1	
				106Y 4/1	
109			Δ↑	106Y 3/1	
				106Y 3/1	
121			Δ↑	106Y 3/1	
				106Y 4/1	
141			Δ↑	106Y 3/1	
150					

SECTION DESCRIPTION

OBSERVER: T. Alves

cyclic succession of
 turbidites → Bouma sequences
 D+E
 Irregular (erosive bases)
 Fining upward cycles

* SS = 104 cm

Silt

Integrated Ocean Drilling Program

Visual Core Description

NO. 233
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: cool8A
 CORE: 30T
 SECTION: 2
 TOP DEPTH (m CSF): 249.065 m

SECTION DESCRIPTION

OBSERVER: T. Alvar

Cycle Succession of sandy silty turbidites.
 Silty clay intercalations.
 Fining upwards.
 Bouma sequence D+E

Smear slide at 92c

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
9			DT		106Y 3/1
31			DT		106Y 4/1
*				*	106Y 3/1
66			DT		106Y 4/1
83			DT		106Y 3/1
91			DT		106Y 4/1
					106Y 3/1
					106Y 4/1

Integrated Ocean Drilling Program

Visual Core Description

NO. 237
 DATE: 12/20/00
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 30T
 SECTION: CC
 TOP DEPTH (m CSF): 250.455m

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0	7	(Hand-drawn sketch of a core section)				1064/314
50	15					1064/1
100						
150						

SECTION DESCRIPTION

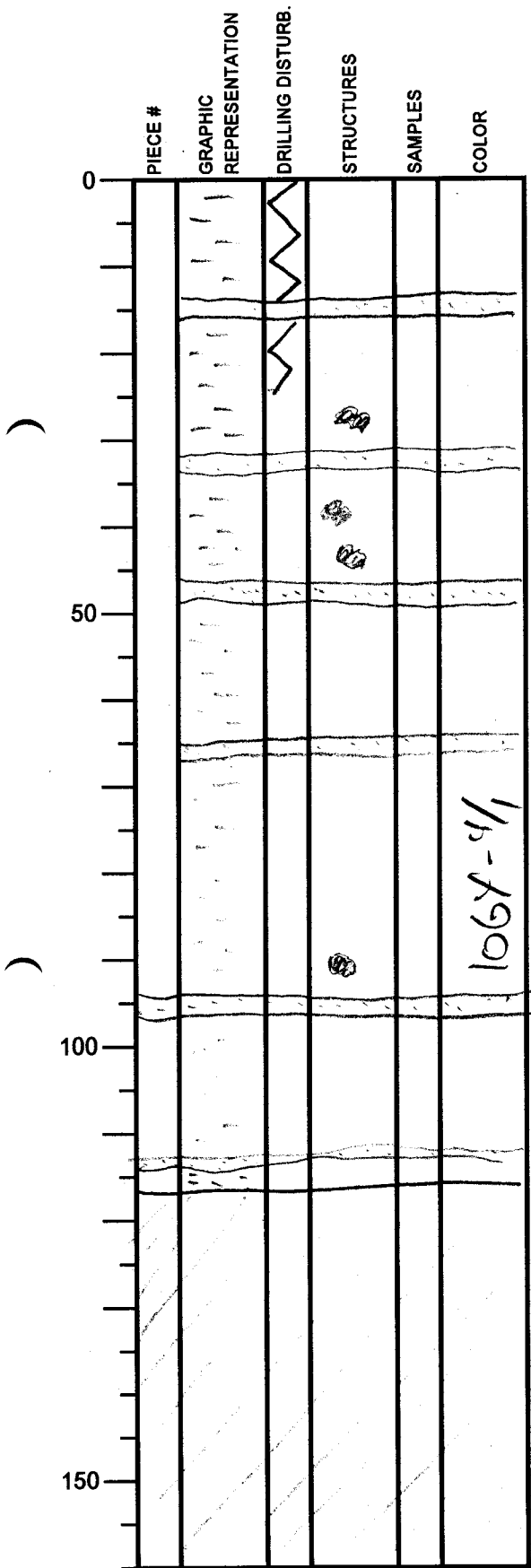
Turbidite cycle

OBSERVER: T. Ober

Integrated Ocean Drilling Program

Visual Core Description

NO. 235
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 31X
 SECTION: 1
 TOP DEPTH (m CSF): -
 257.15 m
 OBSERVER: JCL



SECTION DESCRIPTION

106Y-3/1
 106Y-3/1
 106Y-3/1
 106Y-3/1
 106Y-4/1
 106Y-3/1
 106Y-3/1

In general: higher degree of sed disturbance is to be expected due to the coring technique

Clastic sand in a hemi-
 pelagic succession of clay

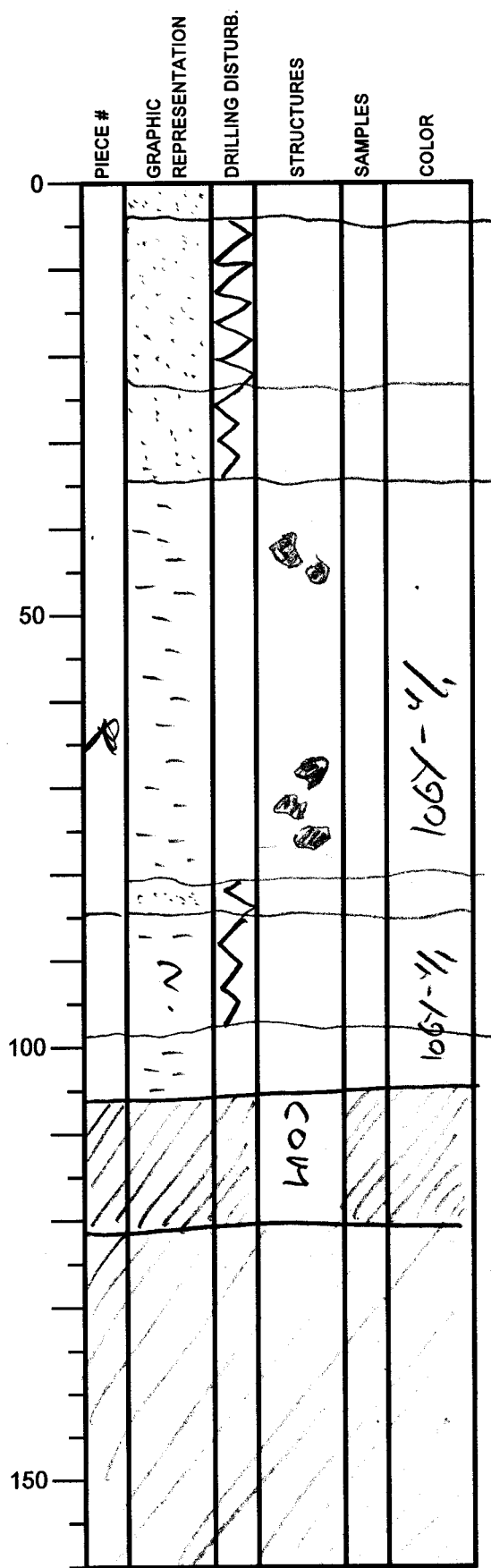
EOC = 117 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 236
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 31X
 SECTION: 2
 TOP DEPTH (m CSF): ~~-A~~
 258.325 m

OBSERVER: *Ja L.*



SECTION DESCRIPTION

106Y-3/1
 106Y-4/1

106Y-3/1, -4/1

Patches of volcanic sand

* Smear slide at 60cm

Patches of volcanic sand

106Y-3/1

106Y-4/1

106Y-4/1

COM

In general: higher degree of disturbance due to the coring technique

Clastic sand in a hemipelagic succession of clay

EOC = 122 cm

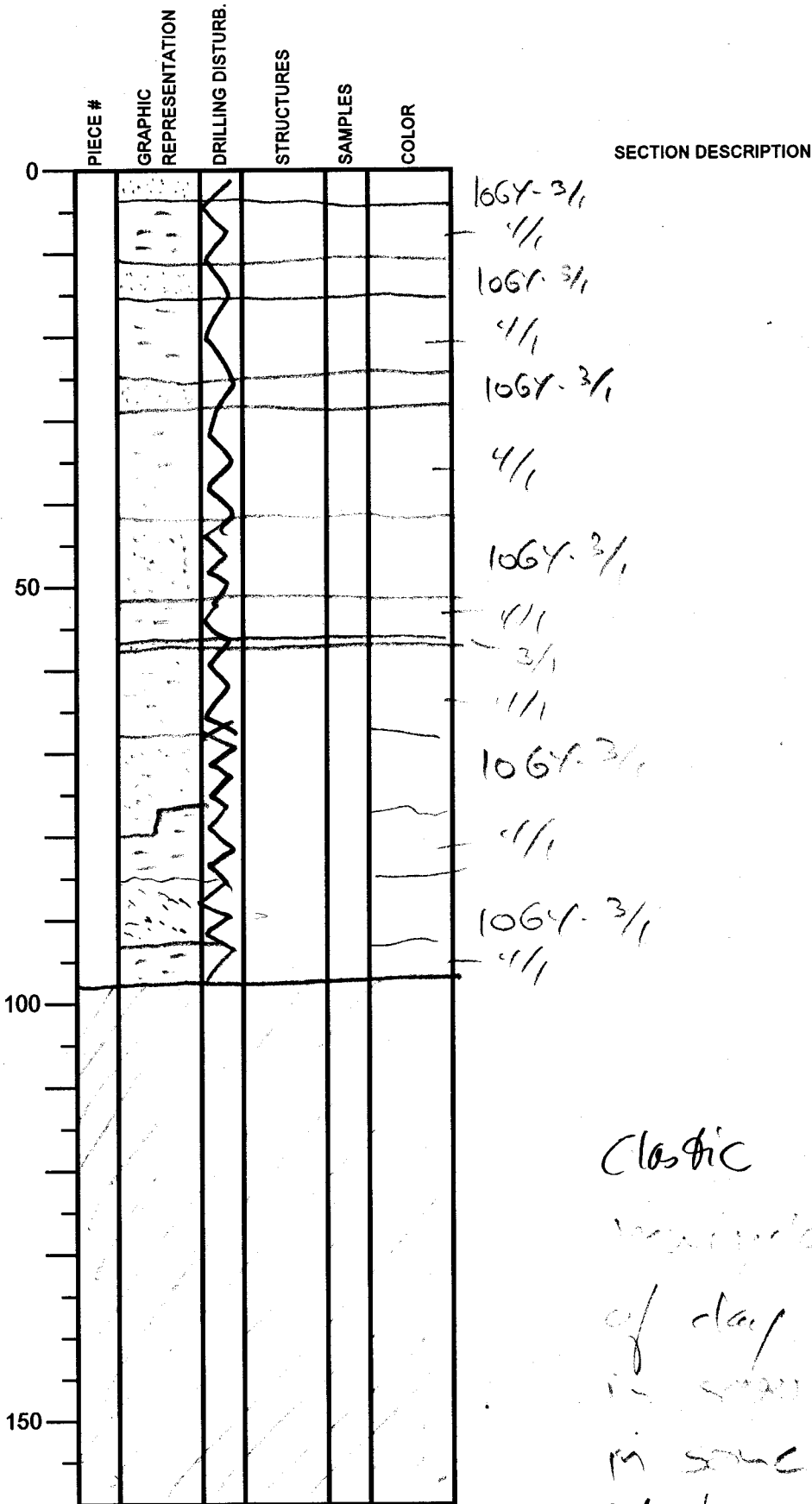
Integrated Ocean Drilling Program Visual Core Description

NO. 237
 DATE: 2/2/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 31X
 SECTION: 3
 TOP DEPTH (m CSF):

259.57

OBSERVER:

Jan L



Clastic sand in a
 successions of clay. The sand
 is... in some intervals
 and clay intervals are
 affected by inflow

EOC = 98cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 238

DATE: 2014 20 10

EXP.: 333

SITE/HOLE: COO18A

CORE: 31X

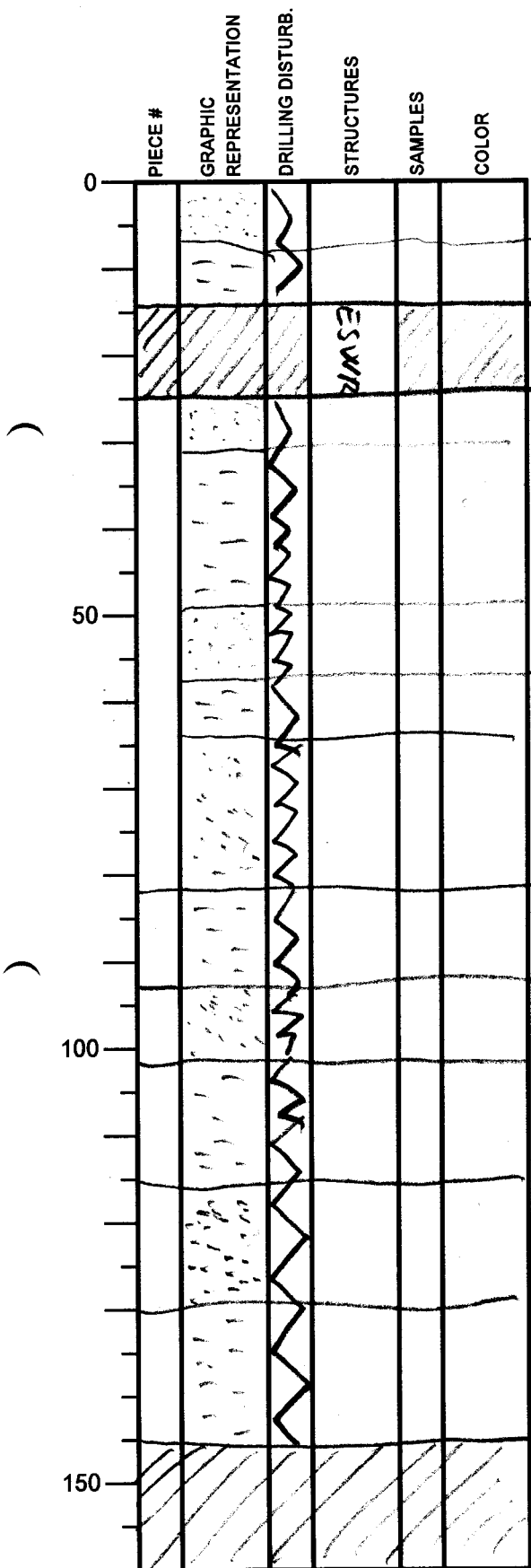
SECTION: 5

TOP DEPTH (m CSF): - A

260.845 m

OBSERVER:

Jal



SECTION DESCRIPTION

106Y-3/1

-4/1

106Y-3/1

-4/1

106Y-3/1

-4/1

106Y-3/1

-4/1

106Y-3/1

-4/1

High water content

106Y-3/1

-4/1

Clastic sand in a
 hemipelagic succession
 of clay. The sand is severely
 disturbed in some intervals
 and clay is affected by
 inflow

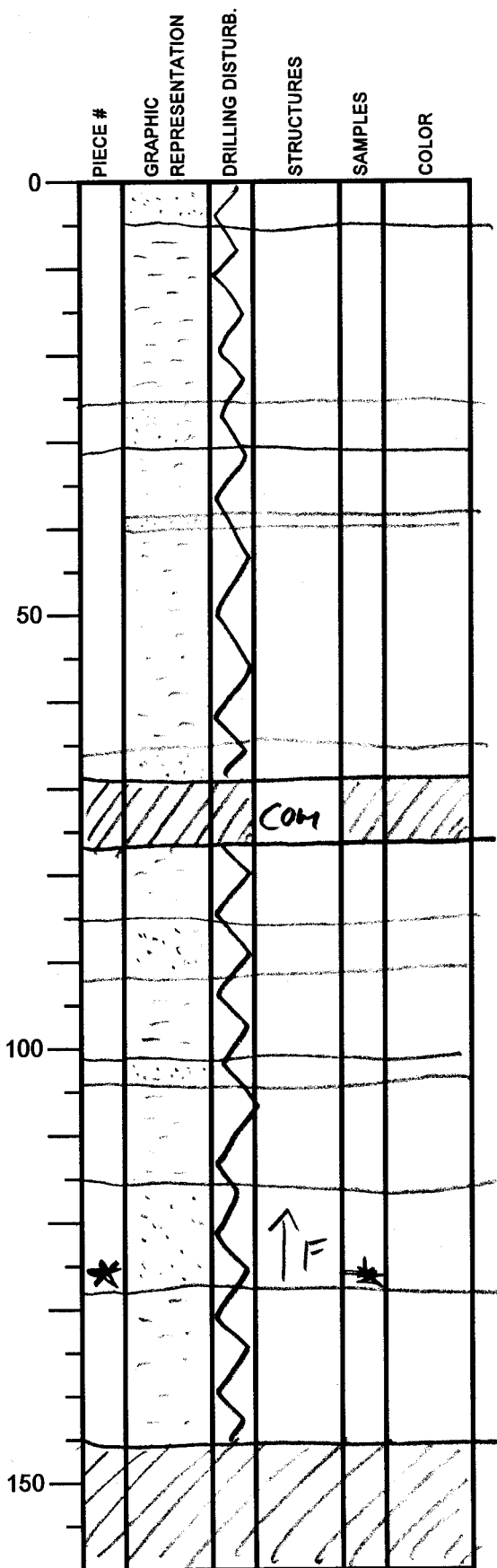
EOC = 145 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 239
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: J1X
 SECTION: 6
 TOP DEPTH (m CSF): ~~A~~
 263.735

OBSERVER: *jal*



SECTION DESCRIPTION

106Y-3/1

106Y-4/1

-3/1

-4/1

-3/1

-4/1

-3/1

-4/1

-3/1

-4/1

-3/1

-4/1

-3/1

-4/1

Smear slide at 126 cm

Clastic sand is a
 hemipelagic successions -
 also this section is
 severely disturbed by
 the core process

EOC = 145 cm

Integrated Ocean Drilling Program

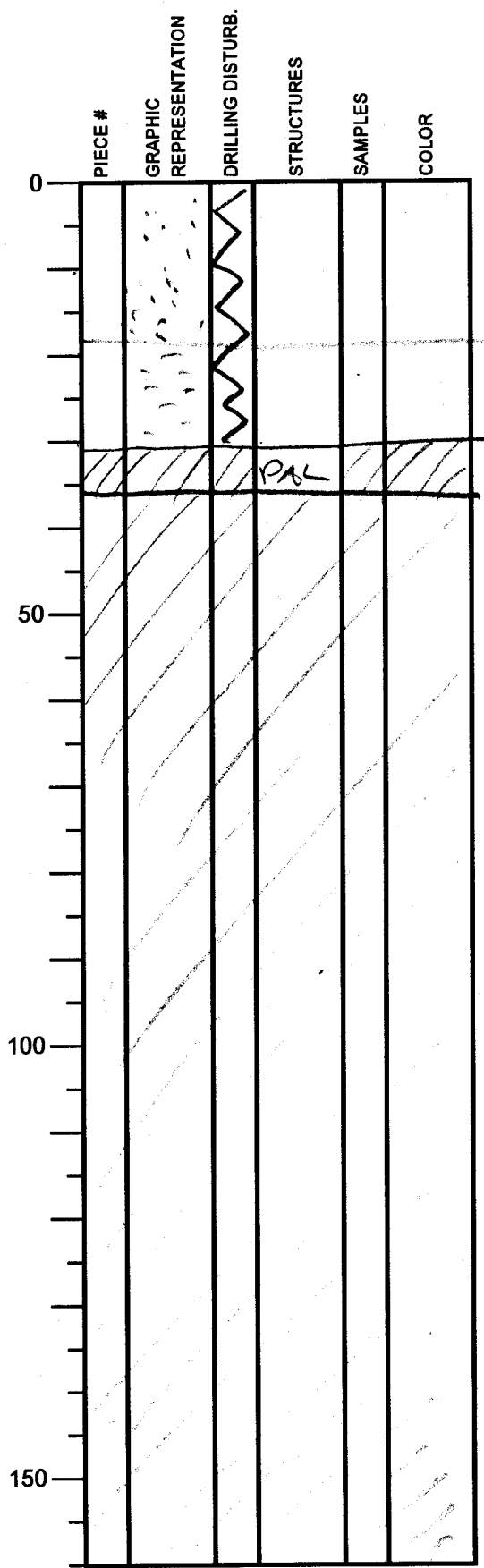
Visual Core Description

NO. 240
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 31X
 SECTION: CC
 TOP DEPTH (m CSF):

273.935

OBSERVER: J. L.

SECTION DESCRIPTION



10GY-3/1

10GY-4/1

PAL

Clastic sand in a
 hemipelagic succession
 disturbed by the coning
 process

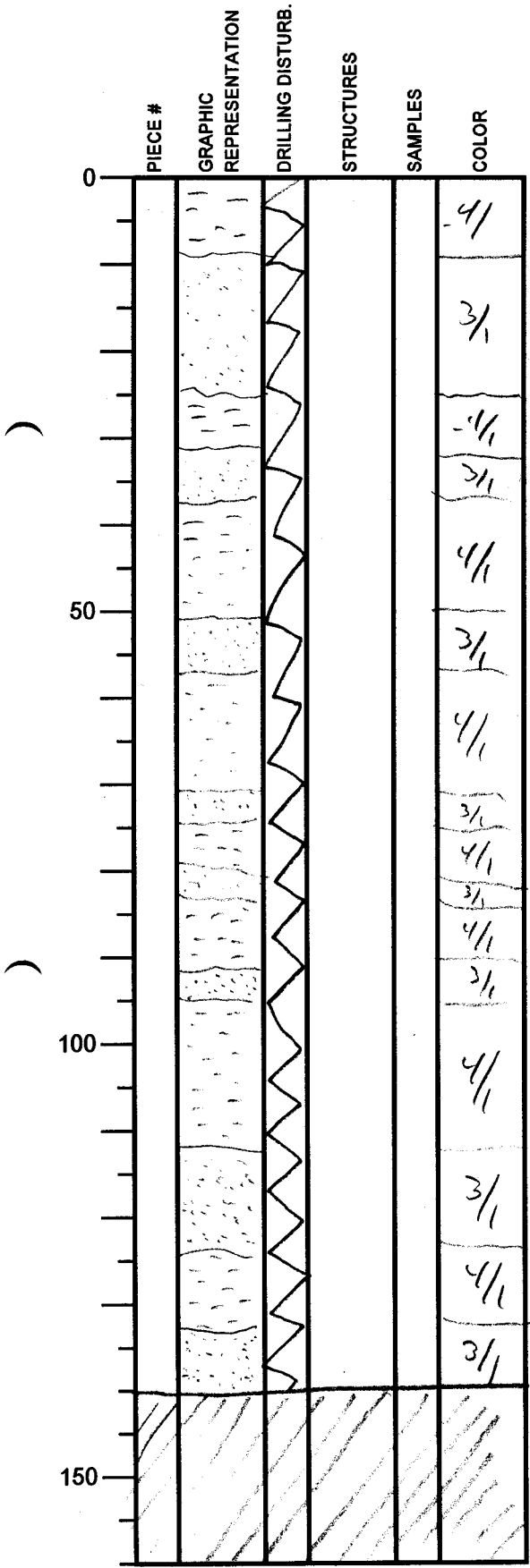
CC = 36cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 241
 DATE: 6/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 32X
 SECTION: 1
 TOP DEPTH (m CSF): -A
 266.65m

OBSERVER:
 JAL.



SECTION DESCRIPTION

Clastic sand in a hemipelagic succession - the section is moderately - heavily disturbed during coring.

EOC = 140 cm

Integrated Ocean Drilling Program

Visual Core Description

No. 242
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 32X
 SECTION: 2
 TOP DEPTH (m CSF): -[▲]

268.055 m

OBSERVER:

Jal.

SECTION DESCRIPTION

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					-4/1
	[diagonal hatching]	[zigzag]	COM COM	[diagonal hatching]	
	[stippled]	[zigzag]			3/1
	[stippled]	[zigzag]			-4/1
50	[stippled]	[zigzag]			-3/1
	[stippled]	[zigzag]			-4/1
	[stippled]	[zigzag]			-3/1
	[stippled]	[zigzag]			-4/1
	[stippled]	[zigzag]			-3/1
	[stippled]	[zigzag]			-4/1
100	[stippled]	[zigzag]			-3/1
	[stippled]	[zigzag]			-4/1
	[stippled]	[zigzag]			-3/1
	[stippled]	[zigzag]			-4/1
	[stippled]	[zigzag]			-3/1
150	[diagonal hatching]	[zigzag]			

Patch of clay

Color
 10GY - 3/1
 10GY - 4/1

* Smear slide at 66cc

Clastic sand in a hemipelagic succession - the section is workably - heavily disturbed along core. No primary structures preserved.

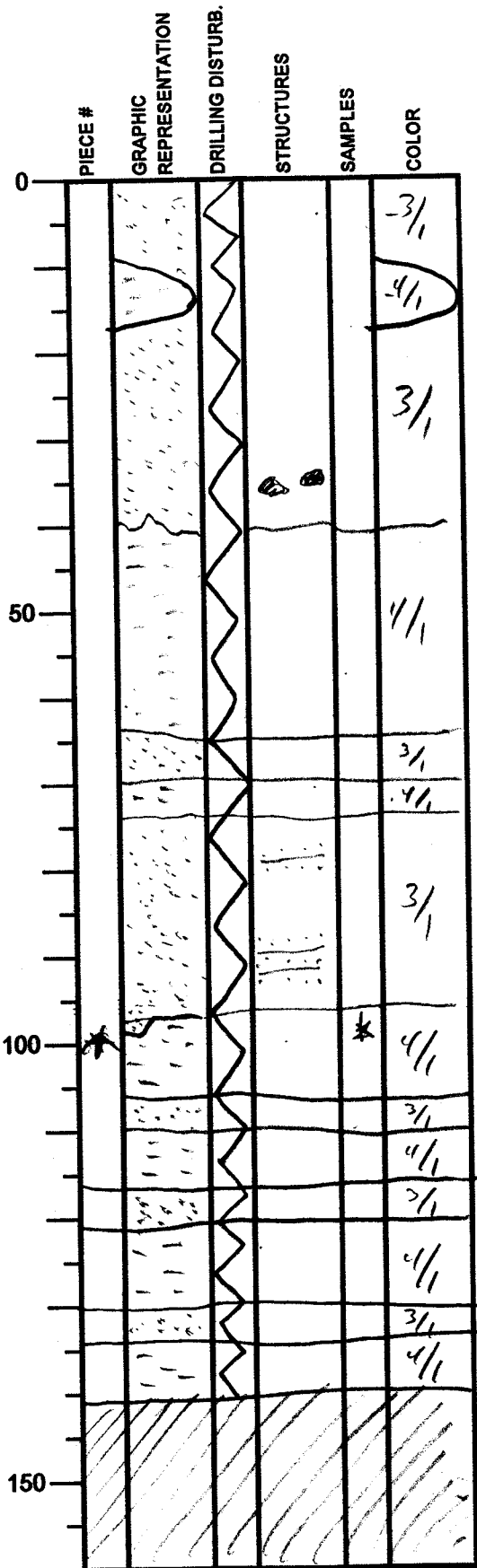
EOC = 142.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 243
 DATE: 20/10/2010
 EXP.: 333
 SITE/HOLE: COOL8A
 CORE: 32*
 SECTION: 3
 TOP DEPTH (m CSF): -A
 269.465 m
 OBSERVER:

fa L.



SECTION DESCRIPTION

Color

10GY - 3/1

10GY - 4/1

Patches of clay within the sand

* Smear slide at 95cm

Clastic sand in a hemipelagic succession. The section is noticeably heavily disturbed during coring. No primary structures preserved.

EOC = 191 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 244
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C00180A
 CORE: 32X
 SECTION: 4
 TOP DEPTH (m CSF): -A
 278.925m
 OBSERVER: J.L.

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
			/ / / / /			4/1
			/ / / / /			3/1
			/ / / / /			4/1
			/ / / / /			3/1
			/ / / / /			4/1
50			/ / / / /			3/1
			/ / / / /			4/1
			/ / / / /			3/1
			/ / / / /			4/1
100			/ / / / /			3/1
			/ / / / /			4/1
			/ / / / /			3/1
150			/ / / / /			3/1

SECTION DESCRIPTION

Color

106Y - 3/1
 106Y - 4/1

Layers of
 clastic sand is a
 hemipelagic ^{clay} successions.
 The section is moderately-
 heavily disturbed during
 rearing. No primary
 structures preserved.

ECC = 14/cw

Integrated Ocean Drilling Program Visual Core Description

NO. 277
 DATE: 6/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 32 X
 SECTION: CC
 TOP DEPTH (m CSF):
 273.935 m
 OBSERVER:
 JAL

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
		(Dotted pattern)	(Wavy line)	PAL		1061-3/1
50						
100						
150						

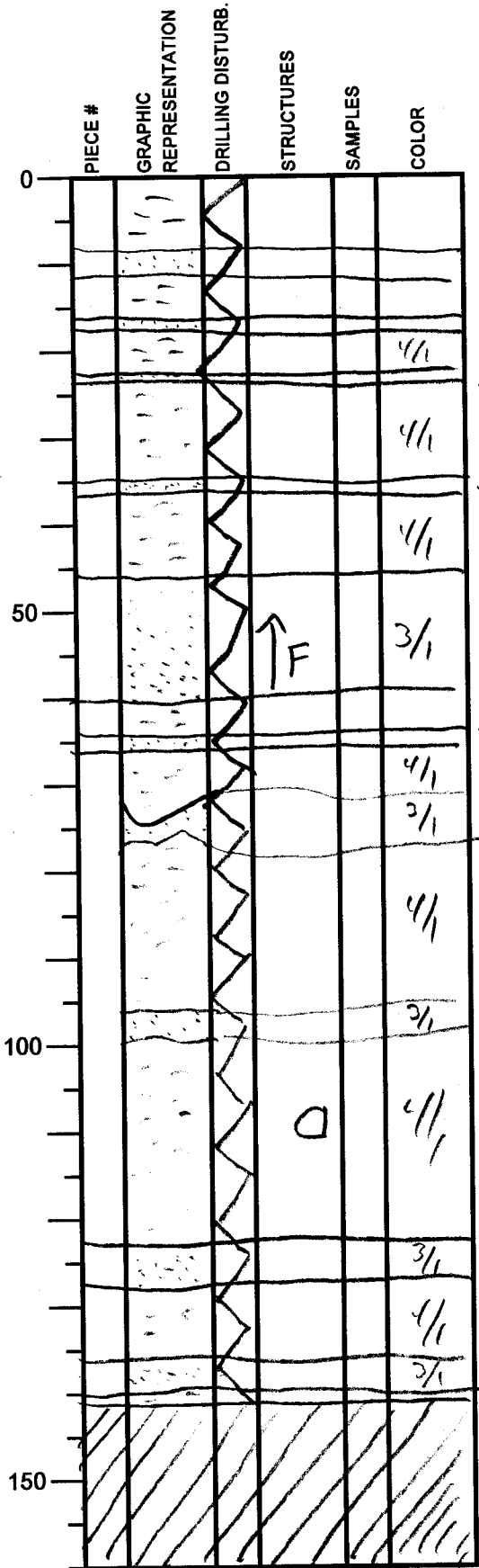
SECTION DESCRIPTION

Clastic sand, severely
 disturbed during coreing

Integrated Ocean Drilling Program

Visual Core Description

NO. 248
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 33X
 SECTION: 1
 TOP DEPTH (m CSF): 216.15m



SECTION DESCRIPTION

OBSERVER: *JAL*

Layers of elastic sand in a hemipelagic clay succession. The section is moderately heavily disturbed during coring. No primary structures preserved.

Patch of sand

EOC = 141.5cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 249
 DATE: 10/12/2010
 EXP.: 333
 SITE/HOLE: CoolBA
 CORE: 33K
 SECTION: 2
 TOP DEPTH (m CSF): 277.56m

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					106/3/1
3					106/3/1
47			Δ↑		4/1
58			Δ↑		3/1
70			Δ↑		4/1
83			Δ↑		3/1
98			Δ↑		4/1
109			Δ↑		3/1
			Δ↑		4/1
			Δ↑		3/L

SECTION DESCRIPTION

OBSERVER: T. PUES

*Cyclic Turbidite sands and silty clays
Fossils bones.*

SS = 91cm (light colour band)] Banding in silty clay
 SS = 93cm (dark colour band)]

Integrated Ocean Drilling Program

Visual Core Description

NO. 250
 DATE: 7/12/2010
 EXP.: 333
 SITE/HOLE: COOLBA
 CORE: 33K
 SECTION: 3
 TOP DEPTH (m CSF): 278.65m

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					3/1
4					4/1
10					3/1
19					4/1
26					3/1
					4/1
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: J. ALVES

log
 Cycle succession of
 Sandy to silty-clay turbidites.
 (Baume's D+E sequences).

Integrated Ocean Drilling Program

Visual Core Description

NO. 251
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 33X
 SECTION: 4
 TOP DEPTH (m CSF): 278.925 m

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			4/1		
			3/1		Δ↑
			4/2		
			3/1		Δ↑
44			4/1		
			3/1		Δ↑
50			4/1		
			3/1		Δ↑
64			4/2		Δ↑
			3/1		Δ↑
86			4/1		Δ↑
			3/1		Δ↑
100					
150					

log

SECTION DESCRIPTION

OBSERVER: T. ALVES

Cyclic volcanoclastic turbidites.
 (Sand to silty mud)
 Fining upwards. Truncation bases

sh

Integrated Ocean Drilling Program Visual Core Description

NO. 252
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 33K
 SECTION: 5
 TOP DEPTH (m CSF): 279.93m

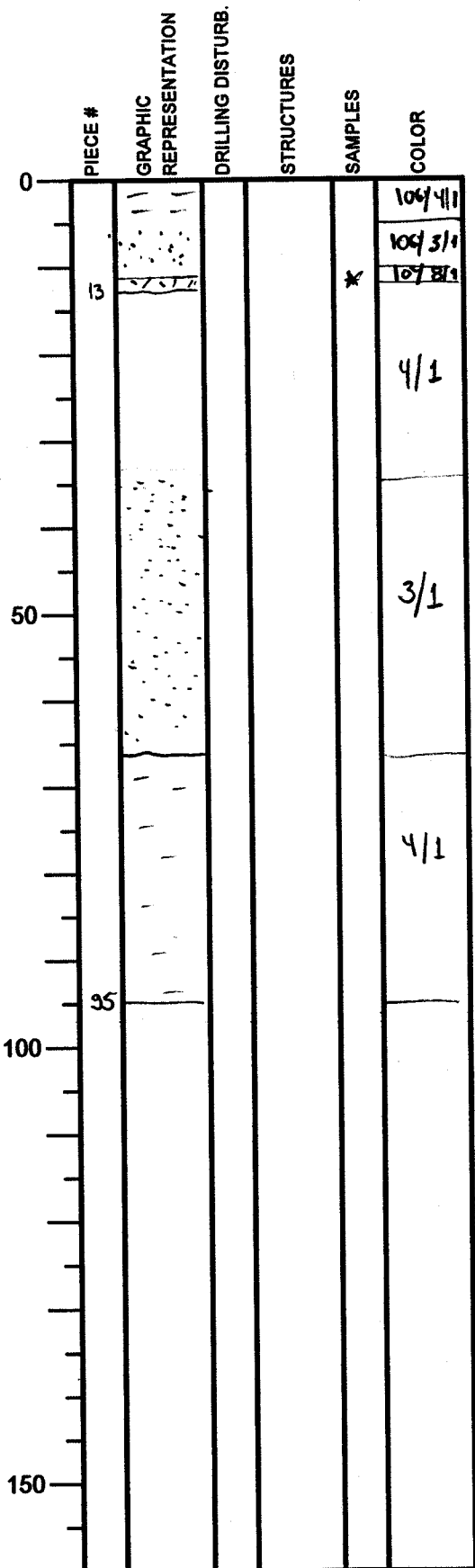
PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					3/1 logy
8					4/1
					3/1 Ash
					4/1
					3/1
					4/1
					3/1
50					4/1
					3/1
					4/1
					3/1
100					4/1
	108 m				
150					

SECTION DESCRIPTION

OBSERVER: J. ALVES

Integrated Ocean Drilling Program Visual Core Description

NO. 253
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 33X
 SECTION: 7
 TOP DEPTH (m CSF): 281.285



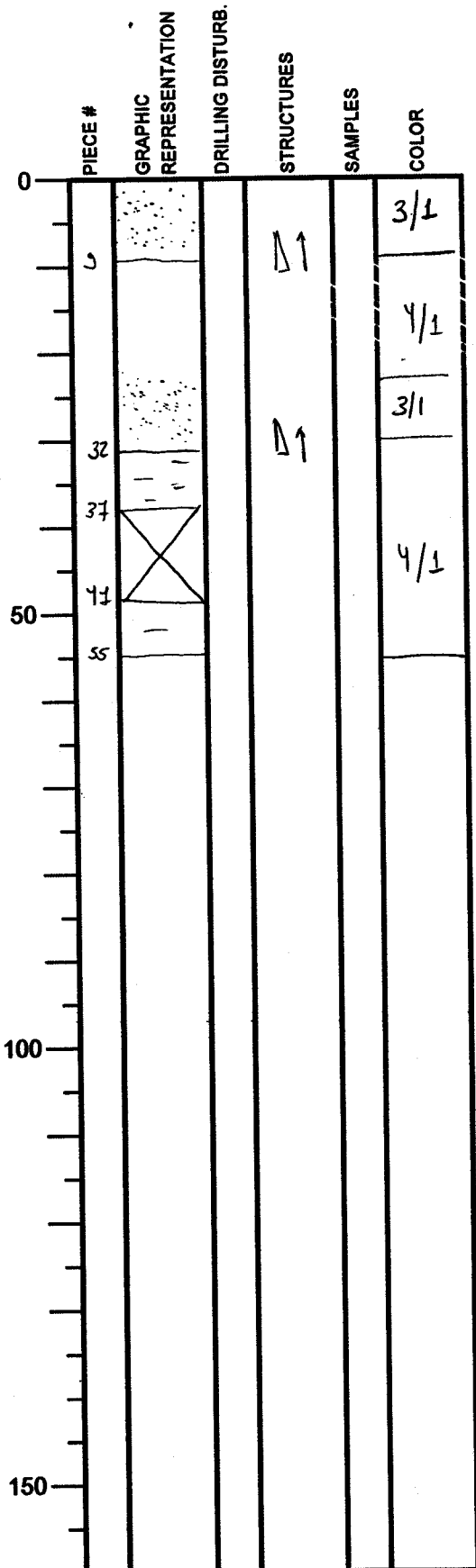
SECTION DESCRIPTION

SS = 12 cm (volcanic ash)

OBSERVER: T. AWES

Integrated Ocean Drilling Program Visual Core Description

NO. 254
 DATE: 10/12/2010
 EXP.: 333
 SITE/HOLE: Cool BA
 CORE: 334
 SECTION: B
 TOP DEPTH (m CSF): 282.225m



SECTION DESCRIPTION

OBSERVER: T. ALVES

Silty clay . Cyclic succession of volcanoclastic
 turbidites . Sandy lower parts .
 Erosive bases .
 ↓
Banded silty clay

Integrated Ocean Drilling Program Visual Core Description

NO. 255
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 33X
 SECTION: 9
 TOP DEPTH (m CSF): 282.765

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
5	[Dotted pattern]		Δ ↑		3/1
20	[Dotted pattern]				4/1
35	[Dotted pattern]		Δ ↑		3/1
40	[Dotted pattern]				4/1
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: J. BUES

Sandy to silty clay turbidite cycles.

Integrated Ocean Drilling Program

Visual Core Description

NO. 256
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: COO18A
 CORE: 33X
 SECTION: C
 TOP DEPTH (m CSF): 283.235

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0	(Hand-drawn marks representing core texture)				4/1
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: T. AWES

20 cm of highly disturbed (biscuits)
 silty clay

Integrated Ocean Drilling Program

Visual Core Description

NO. 257
 DATE: 2/12/2000
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 34X
 SECTION: 01
 TOP DEPTH (m CSF): 285.65

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			Δ↑		3/1
		*			5/1
					3/1
			Δ↑		4/1
			Δ↑		4/1
			Δ↑		3/1
50			Δ↑		4/1
			Δ↑		3/1
			Δ↑		4/1
			Δ↑		3/1
			Δ↑		4/1
			Δ↑		3/1
100			Δ↑		4/1
			Δ↑		3/1
			Δ↑		4/1
			Δ↑		3/1
150					

SECTION DESCRIPTION

OBSERVER: S Gao

Alternating turbidites
 and silty clay layers.
 Fining upward.

-SS = 18um

3/1

Integrated Ocean Drilling Program

Visual Core Description

NO. 258
 DATE: 2/17/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 34X
 SECTION: 02
 TOP DEPTH (m CSF): 287.145

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					3/1
					4/1
					3/1
					4/1
					3/1
					4/1
			Δ↑		3/1
50					4/1
			Δ F		3/1
					4/1
			Δ F		3/1
					4/1
100					3/1
					4/1
150					

SECTION DESCRIPTION

Alternating ash
 turbidite and
 silty clay layers.
 Fining upward.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 260
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 34X
 SECTION: 04
 TOP DEPTH (m CSF): 288.675

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			Δ F		3/1
			Δ F		4/1
			Δ F		4/1
			Δ F		3/1
50			Δ F		4/1
			Δ F		3/1
			Δ F		4/1
100					
150					

SECTION DESCRIPTION

OBSERVER: S Gas

Alternating turbidite
 and silty clay layers.
 Fining upward.

Integrated Ocean Drilling Program Visual Core Description

NO. 261
 DATE: 20/11/2010
 EXP.: 332
 SITE/HOLE: C00108A
 CORE: 34X
 SECTION: 05
 TOP DEPTH (m CSF): 289.53

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		↘	Δ F		3/1
			Δ F		4/1 3/1
			Δ F		4/1 3/1
50					
100					
150					

SECTION DESCRIPTION

The same as
 34X - 04 section.

OBSERVER: S Gao

Integrated Ocean Drilling Program Visual Core Description

NO. 262
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 34X
 SECTION: 07
 TOP DEPTH (m CSF): 290.175

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		[Hand-drawn texture]		Δ F		3/1
		[Hand-drawn texture]		Δ F		4/1
		[Hand-drawn texture]		Δ F		3/1
		[Hand-drawn texture]		Δ F		4/1
		[Hand-drawn texture]				3/1
50		[Hand-drawn texture]	▶▶			4/1
		[Hand-drawn texture]				3/1
		[Hand-drawn texture]				4/1
		[Hand-drawn texture]				3/1
		[Hand-drawn texture]				4/1
100		[Hand-drawn texture]				
		[Hand-drawn texture]				4/1
150		[Hand-drawn texture]				

SECTION DESCRIPTION

The same as
34X-06 Section.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 263
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 34X
 SECTION: 08
 TOP DEPTH (m CSF): 291.1

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		[Hand-drawn pattern]				3/1
		[Hand-drawn pattern]		△ F		4/1
		[Hand-drawn pattern]				3/1
		[Hand-drawn pattern]				4/1
50		[Hand-drawn pattern]		△ F		3/1
		[Hand-drawn pattern]				6/1
		[Hand-drawn pattern]		△ F		4/1
100						
150						

SECTION DESCRIPTION

The same as
34X-07 Section,
except

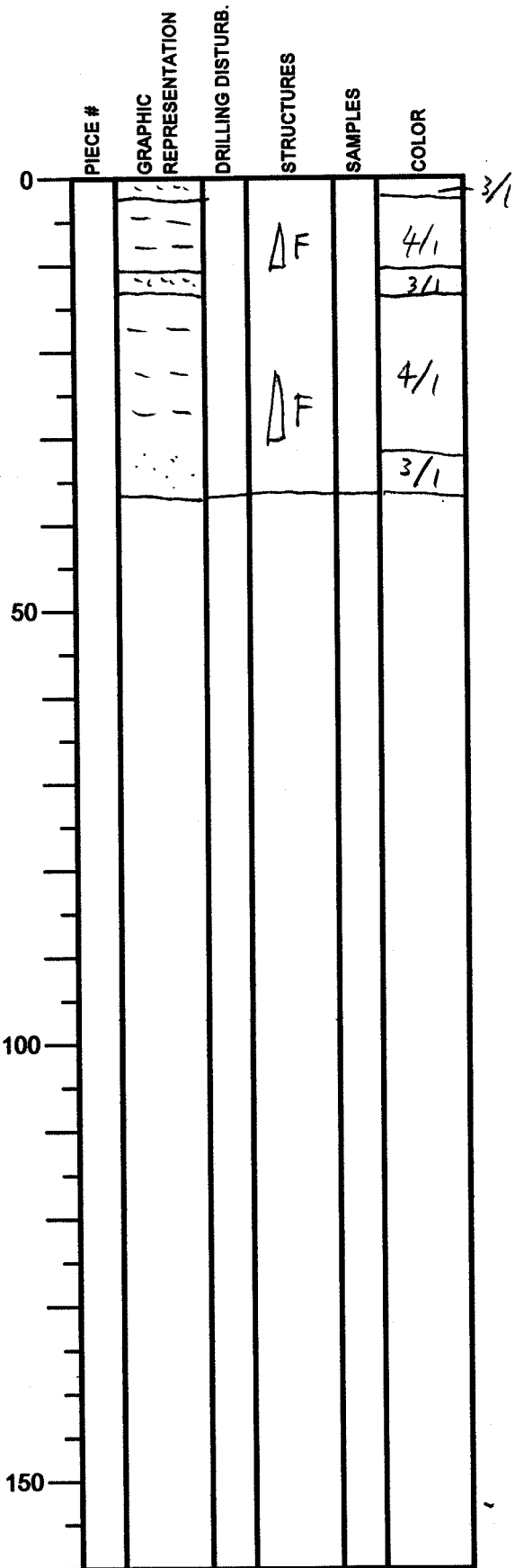
Light colored
Volcanic Sand
occurs at
67.5-71.5 cm.

OBSERVER: SGao

Integrated Ocean Drilling Program

Visual Core Description

NO. 259
 DATE: 29/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 34X
 SECTION: 03
 TOP DEPTH (m CSF): 288.3



SECTION DESCRIPTION

OBSERVER: S Gao

Alternating turbidite
 and silty clay layers;
 fining upward.

Integrated Ocean Drilling Program

Visual Core Description

NO. 264
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 34X
 SECTION: 09
 TOP DEPTH (m CSF): 291.955

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			△ F		3/1
			△ F		4/1
			△ F		3/1
50			△ F		4/1
	*				3/1
					4/1
100					
150					

SECTION DESCRIPTION

OBSERVER: S Gao

Alternating turbidite
 and silty clay layers
 until 60cm. Below
 this there are continuous
 silty clay deposit (hard
 and soft bands alternating,
 due to drilling disturbance?).

- SS = 30cm

Integrated Ocean Drilling Program Visual Core Description

NO. 265
 DATE: 2011/4/20/0
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 34X
 SECTION: 10 -
 TOP DEPTH (m CSF): 292.965

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

SECTION DESCRIPTION

OBSERVER: SGao

Silty clay, with
 alternating hard &
 soft layers (drilling
 induced?).

Integrated Ocean Drilling Program Visual Core Description

NO. 266
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 34X
 SECTION: CC
 TOP DEPTH (m CSF): 293.83

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			↓ ▲			4/1
50						
100						
150						

SECTION DESCRIPTION

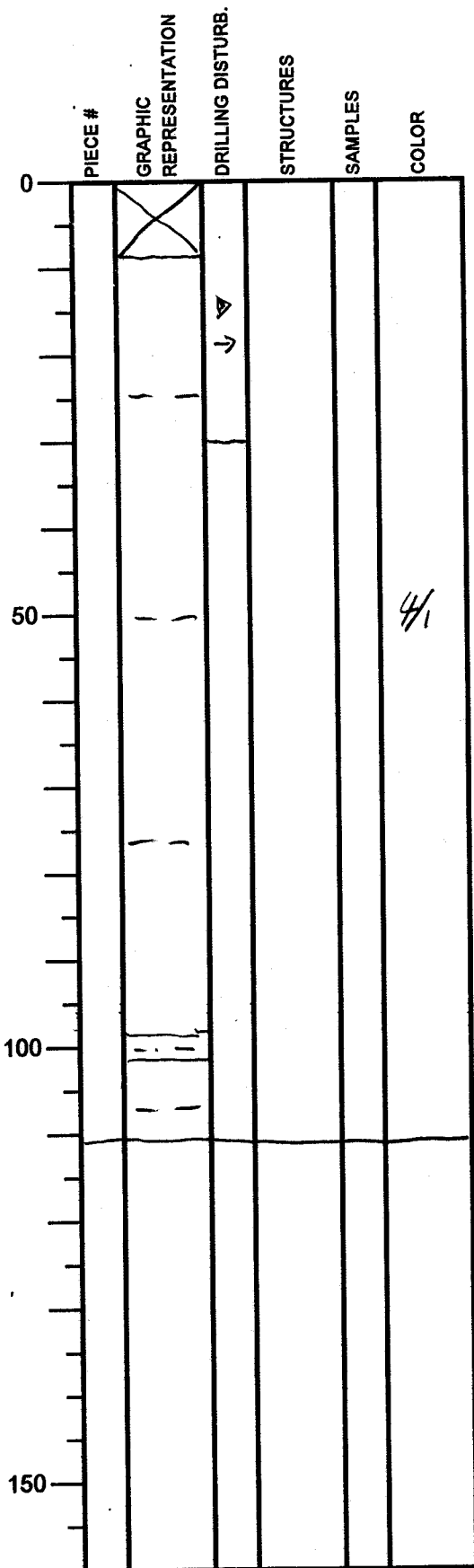
silty clay.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 267
 DATE: 20, 12, 2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 35X
 SECTION: 01
 TOP DEPTH (m CSF): 295.15



SECTION DESCRIPTION

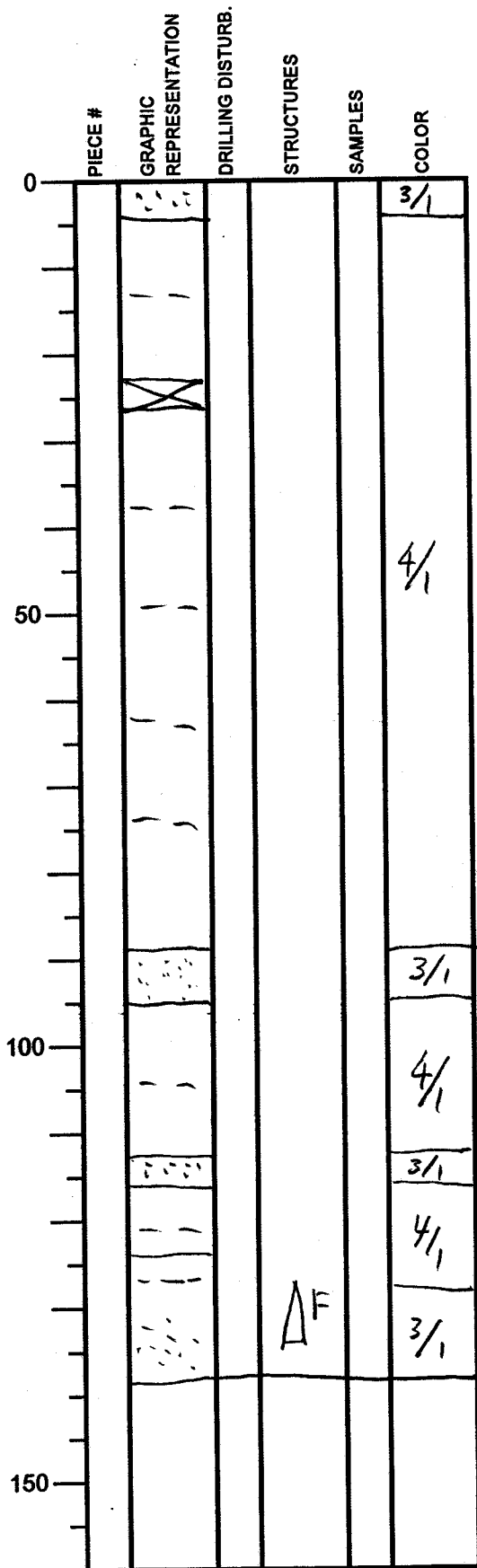
OBSERVER: S Gao

silty clay, relatively
 hard, with silt layer
 at 99-102 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 268
 DATE: 20/1/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 35X
 SECTION: 02
 TOP DEPTH (m CSF): 296.255
 OBSERVER: S Gao



SECTION DESCRIPTION

Silty clay, with
 sandy layers at
 0-4, 89-95, and
 114-117 cm. sharp
 erosion surface at
 117 cm.

In 124-138 cm, there
 is a fining upward
 trend (this pattern
 is present in previous
 cores (e.g. 33X).

Integrated Ocean Drilling Program

Visual Core Description

NO. 269
 DATE: 2012/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 35X
 SECTION: 03
 TOP DEPTH (m CSF): 297.635

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0	(1)		△F		4/1
	(1)				3/1
	*				4/1
	(1)		△F		3/1
50	(1)				4/1
	(1)				4/1
100					
150					

SECTION DESCRIPTION

OBSERVER: S Gao

Alternating ash sand
 and silty clay layers.
 -SS = 23cm
 sharp erosion surface.

Integrated Ocean Drilling Program

Visual Core Description

NO. 270
 DATE: 2012/2010
 EXP.: 233
 SITE/HOLE: C0018A
 CORE: 35X
 SECTION: 05
 TOP DEPTH (m CSF): 298.52

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

SECTION DESCRIPTION

Alternating sand
 and silty layers. Erosion
 surface at the bottom
 of sand

OBSERVER: S Gao.

Integrated Ocean Drilling Program

Visual Core Description

NO. 271
 DATE: 2/14/2010
 EXP.: 333
 SITE/HOLE: Co018A
 CORE: 35X
 SECTION: 06
 TOP DEPTH (m CSF): 298.74
 OBSERVER: S. Gao

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					4/1
			△ F		3/1
					4/1
			△ F		3/1
50					4/1
			△ F		3/1
					4/1
			△ F		3/1
100					4/1
			△ F		3/1
150					

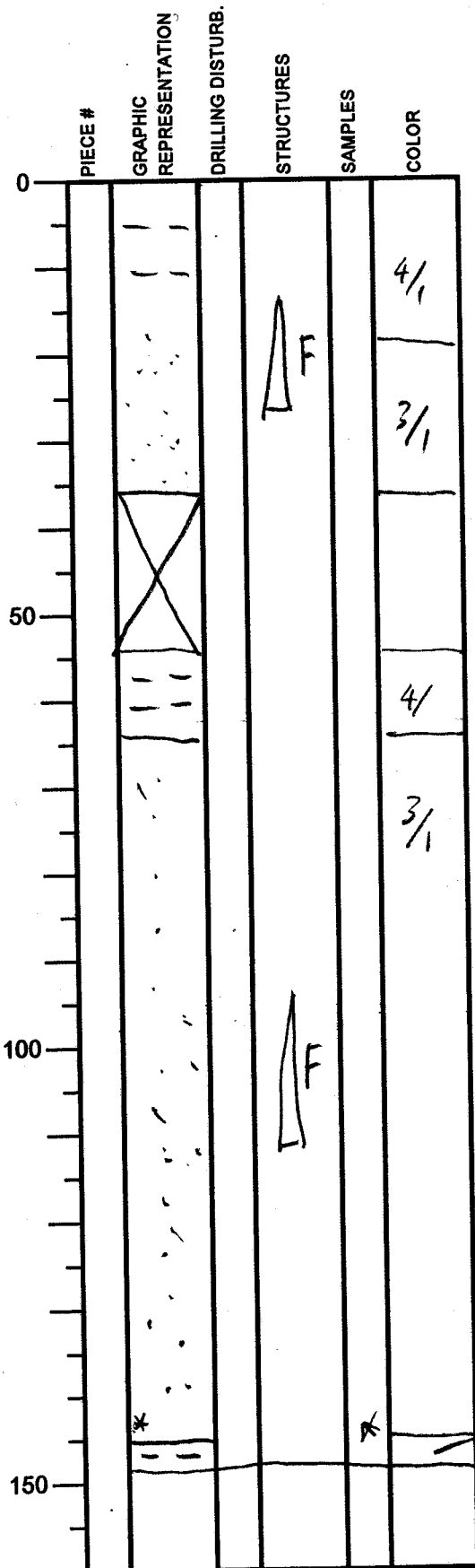
SECTION DESCRIPTION

The same as
 35X-05 section.

Integrated Ocean Drilling Program

Visual Core Description

NO. 272
 DATE: 21/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 35X
 SECTION: 07
 TOP DEPTH (m CSF): 300.12
 OBSERVER: S. Gao



SECTION DESCRIPTION

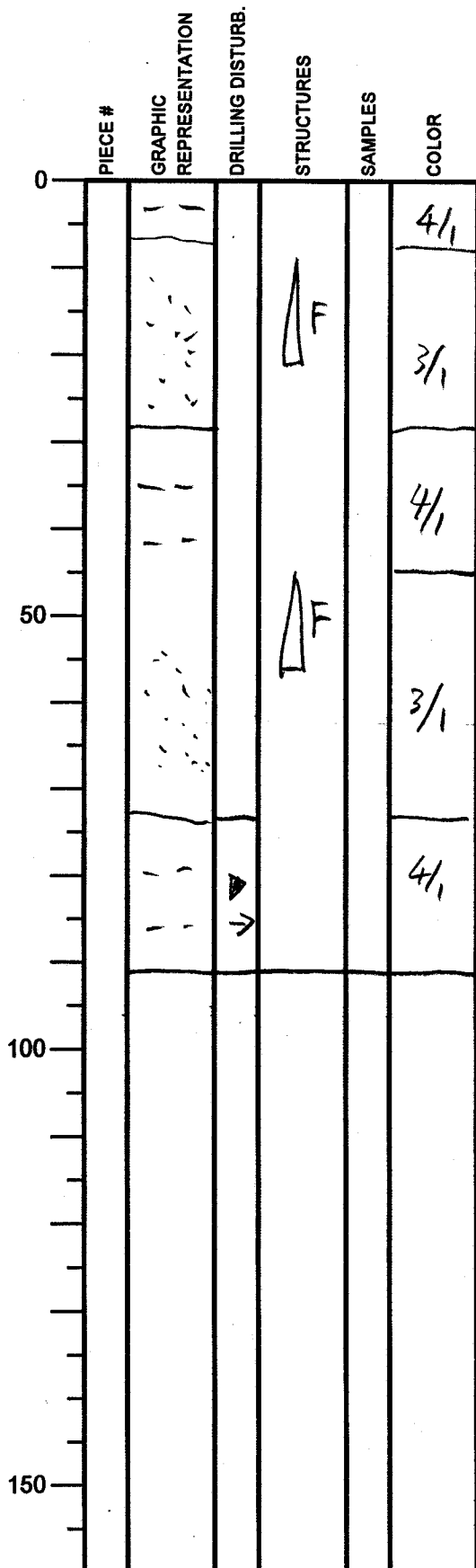
The same as 35X-06 section in the upper part.

In the lower part there is a long turbidite section, between 63 and 144 cm (81 cm in length), with a fining upward trend.

SS = 143 cm
4/1

Integrated Ocean Drilling Program Visual Core Description

NO. 273
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 35X
 SECTION: 08
 TOP DEPTH (m CSF): 301.62




SECTION DESCRIPTION

OBSERVER: S Gao

Two fining upward sequences, with the coarse grained layers being much thicker than the silty clay layers.

Integrated Ocean Drilling Program Visual Core Description

NO. 274
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 35X
 SECTION: 09
 TOP DEPTH (m CSF): 302.53

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						4/1
50						3/1
100						
150						

SECTION DESCRIPTION

The same as
 35X-08 section.

OBSERVER: S. Gao

Integrated Ocean Drilling Program Visual Core Description

NO. 275
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 35X
 SECTION: 10
 TOP DEPTH (m CSF): 302.89

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50			▲ →			4/1
100						
150						

SECTION DESCRIPTION

OBSERVER: S Gao

Heavily disturbed
 throughout the core.
 silt and clay

Integrated Ocean Drilling Program Visual Core Description

NO. 276
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 35X
 SECTION: 11
 TOP DEPTH (m CSF): 304.29

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



SECTION DESCRIPTION

The same as
 35X-11 section.

OBSERVER: SGao

Integrated Ocean Drilling Program Visual Core Description

NO. 277
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 35X
 SECTION: CC-AA
 TOP DEPTH (m CSF): 305.205

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
41					
50					
100					
150					

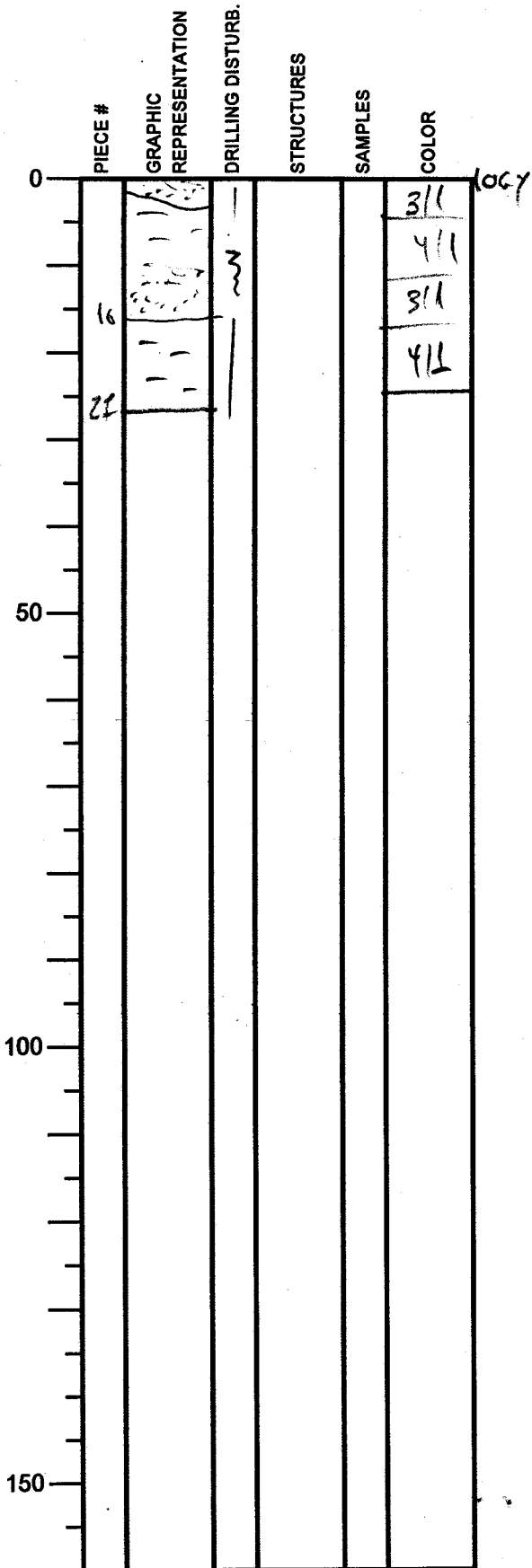
SECTION DESCRIPTION

The same as
35X-11 section.

OBSERVER: S. Gao.

Integrated Ocean Drilling Program Visual Core Description

NO. 278
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: G0018A
 CORE: 362
 SECTION: 2
 TOP DEPTH (m CSF): 304.65 m



SECTION DESCRIPTION

OBSERVER: J. Plus

Integrated Ocean Drilling Program Visual Core Description

NO. 273
 DATE 20/12/2010
 EXP.: 333
 SITE/HOLE: C008A
 CORE: 36x
 SECTION: 2
 TOP DEPTH (m CSF): 304.92 m

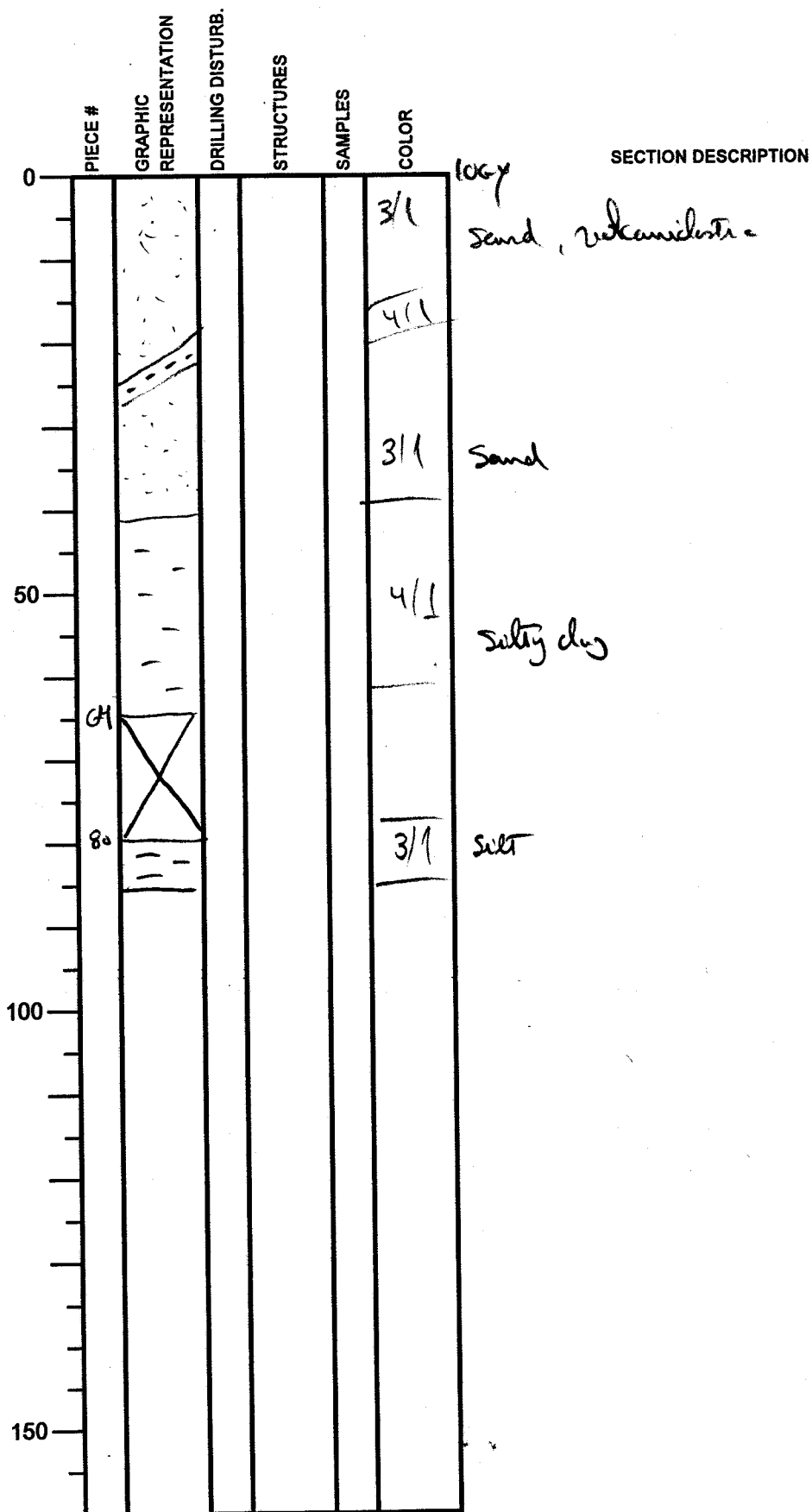
	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
	11	-				4/1
		-				3/1
	36	-				4/1
50		-				3/1
100						
150						

SECTION DESCRIPTION

OBSERVER: T. Myg

Integrated Ocean Drilling Program Visual Core Description

NO. **280**
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: **COO18A**
 CORE: **36x**
 SECTION: **3**
 TOP DEPTH (m CSF): **305.7m**

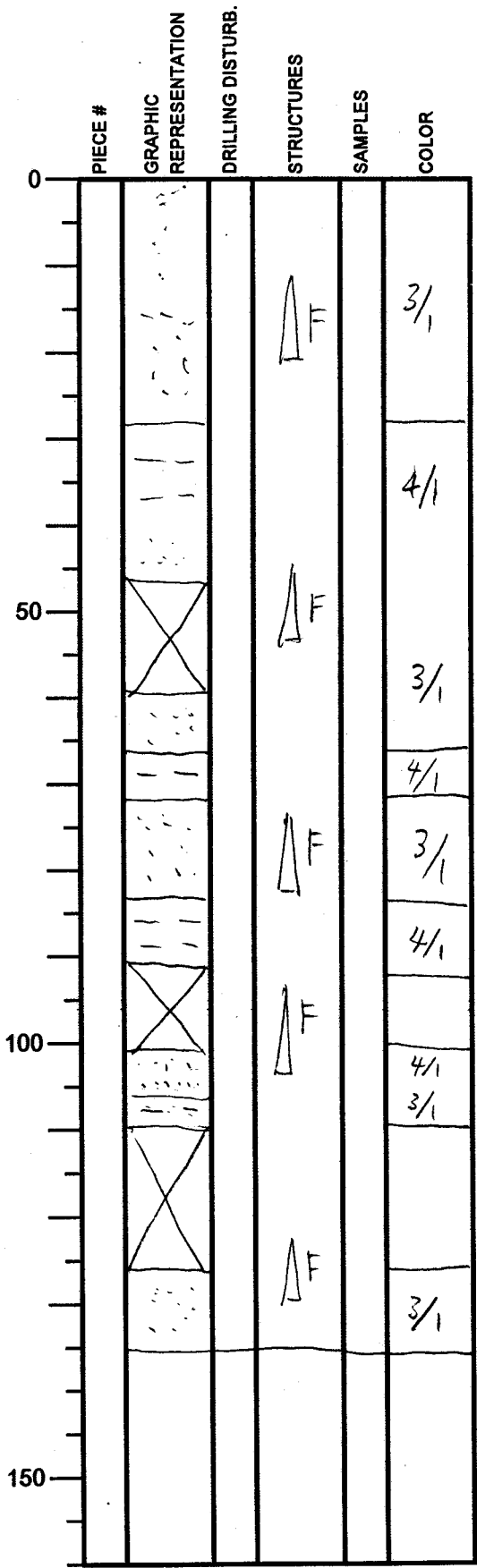


OBSERVER: T. King

Integrated Ocean Drilling Program

Visual Core Description

NO. 281
 DATE: 20/1/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 36X
 SECTION: 04
 TOP DEPTH (m CSF): 306.845



SECTION DESCRIPTION
 sand
 Dark ash layers
 + Silty clay layer.
 Sharp erosion
 surface at the
 bottom of ash
 layers.

OBSERVER: S. Gao
 + Y. Satoguchi
 sand size is
 very fine - fine sand.

Integrated Ocean Drilling Program

Visual Core Description

NO. 282
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 36X
 SECTION: 06
 TOP DEPTH (m CSF): 308.435

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						4/1
				△ F		3/1
				△ F		
50				△ F		
				△ F		
100				△ F		
150						

SECTION DESCRIPTION

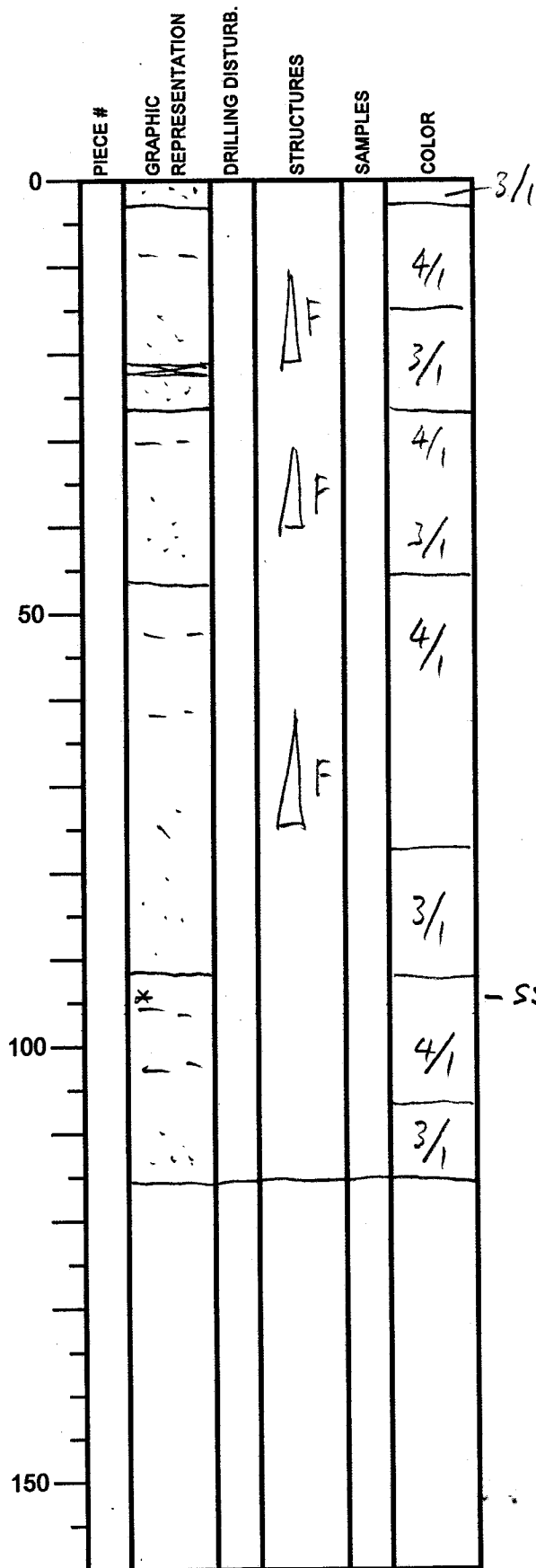
Ash + Silty clay
 layers.

OBSERVER: S. Gas

Integrated Ocean Drilling Program

Visual Core Description

NO. 283
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 36X
 SECTION: 07
 TOP DEPTH (m CSF): 309.595



SECTION DESCRIPTION

OBSERVER: S Gao

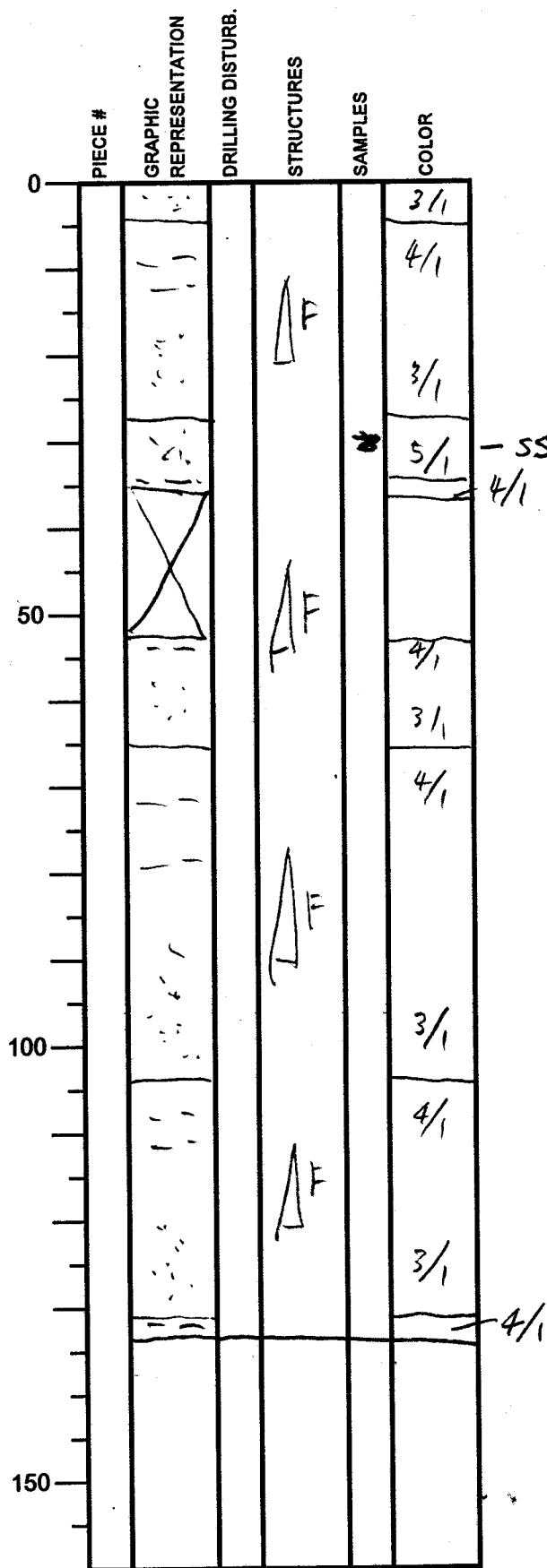
Ash and
 Silty clay
 layers (alternating).

- SS = 94.5m

Integrated Ocean Drilling Program

Visual Core Description

NO. 284
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 36X
 SECTION: 08
 TOP DEPTH (m CSF): 310.765



SECTION DESCRIPTION

Alternating
 ash and silty
 clay layers.

- SS = silt
 4/1

OBSERVER: S. Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 285
 DATE: 20/12/2010
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 36X
 SECTION: 09
 TOP DEPTH (m CSF): 312.105

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

SECTION DESCRIPTION

OBSERVER: S Gas

Mainly silty clay,
 with ash layers
 or patches at 20,
 42~45, 57~60 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 286
 DATE: 2012/20/10
 EXP.: 333
 SITE/HOLE: C0018A
 CORE: 36X
 SECTION: CC-AA
 TOP DEPTH (m CSF): 313.015

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
			▲ ↓			4/1
50						3/1
100						
150						

SECTION DESCRIPTION

silt and clay,
 heavily disturbed
 during drilling.

OBSERVER: S Gao