

Integrated Ocean Drilling Program

Visual Core Description

NO. 309
 DATE: 21/2/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 1H
 SECTION: 01
 TOP DEPTH (m CSF):

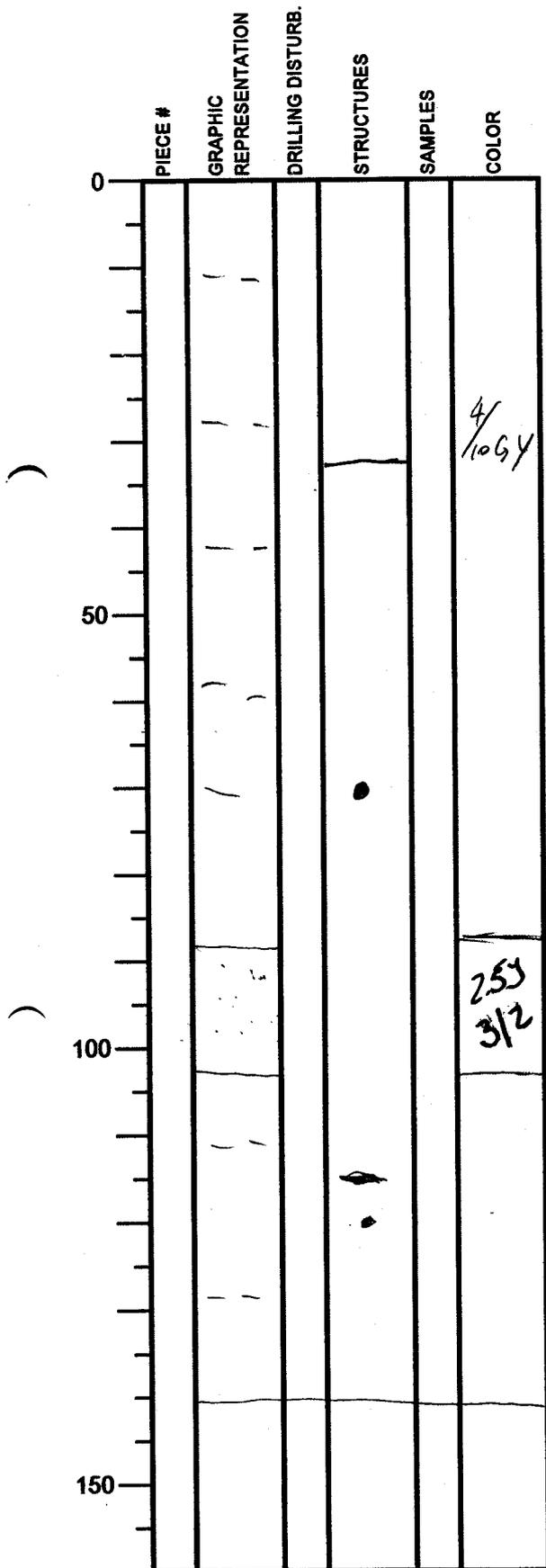
OBSERVER: S Gao

SECTION DESCRIPTION

Silty clay, with
thin ash layers.

Brown sandy silt

Overlap with
C0011C, 3H.

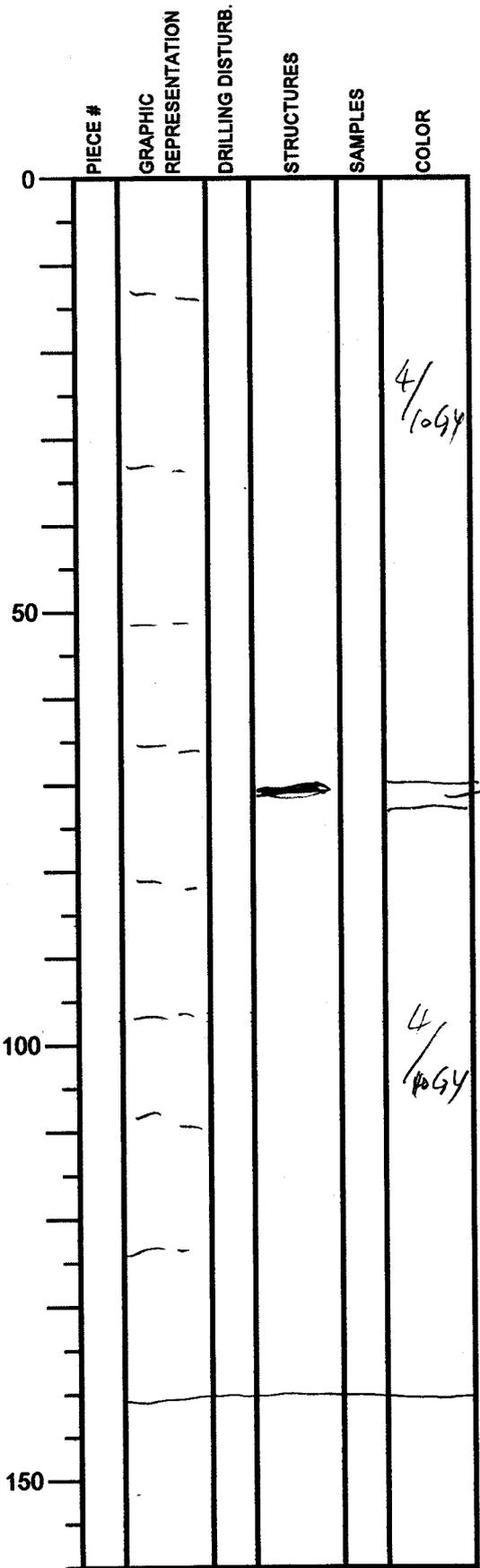


Integrated Ocean Drilling Program

Visual Core Description

NO. 310
 DATE: 2/14/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 1H
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

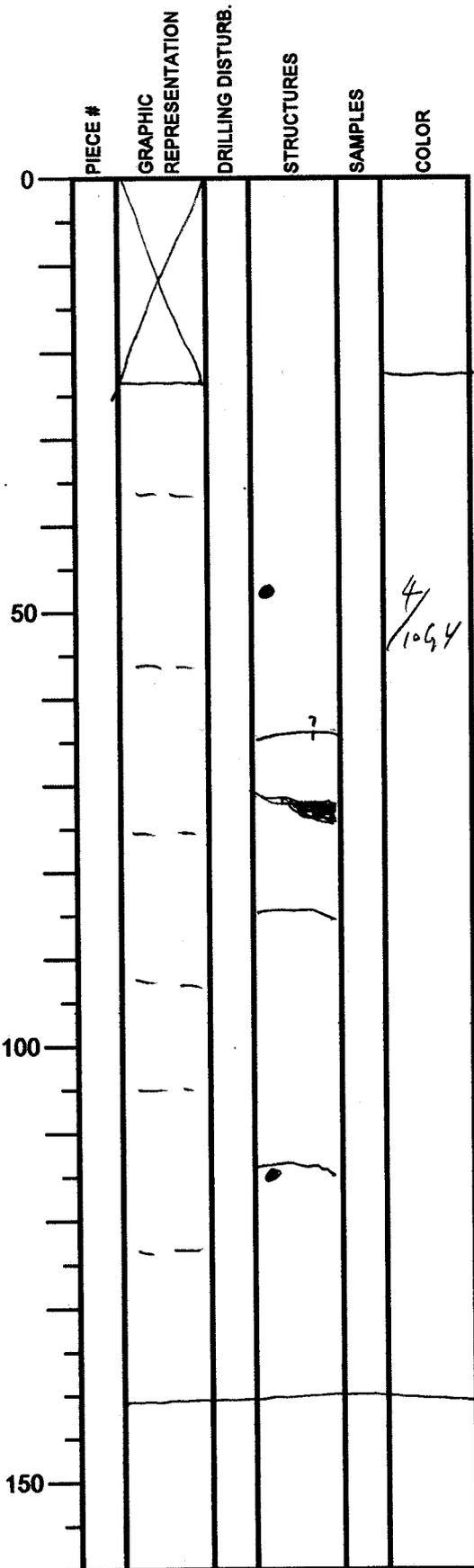
Layered silty
 clay, with numerous
 ash layers; a distinct
 white and green ash
 layer occurs at 71.5-
 73.5 cm, which can be
 compared with its
 counterpart in Core
 C0011C-3H.

Above around 92 cm, overlap
with C0

Integrated Ocean Drilling Program Visual Core Description

NO. 311
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 1H
 SECTION: 03
 TOP DEPTH (m CSF):

OBSERVER: S Gas



SECTION DESCRIPTION

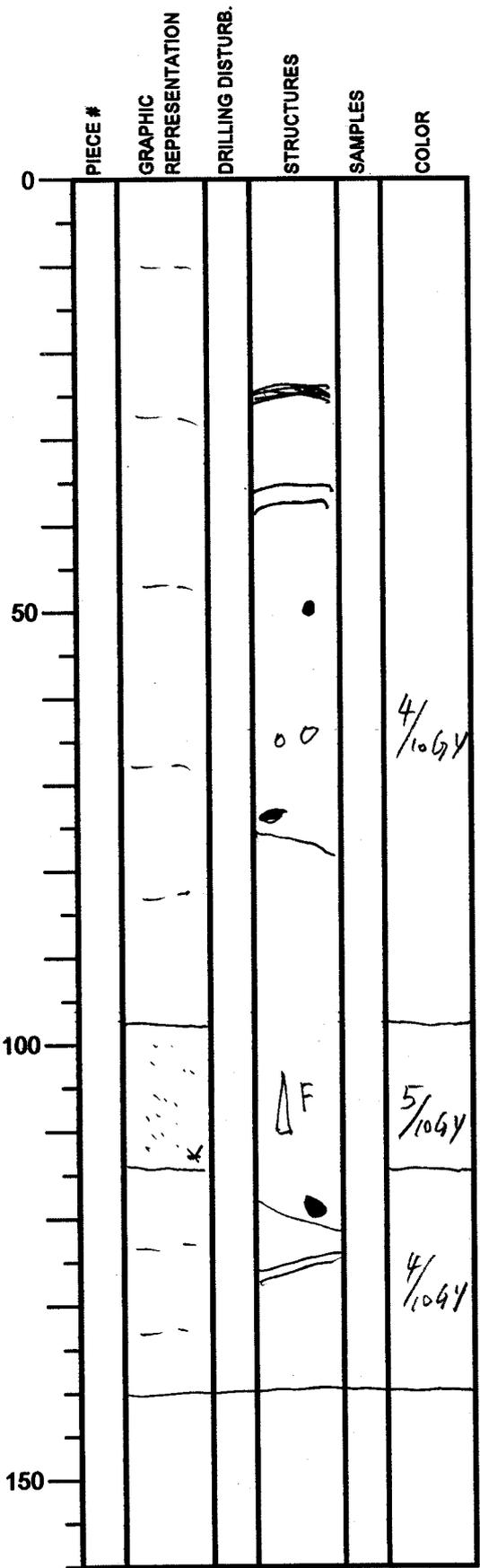
Silty clay, with
 ash layers
 throughout the core.

Integrated Ocean Drilling Program

Visual Core Description

NO. 3/2
 DATE: 2/11/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 1H
 SECTION: 05
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

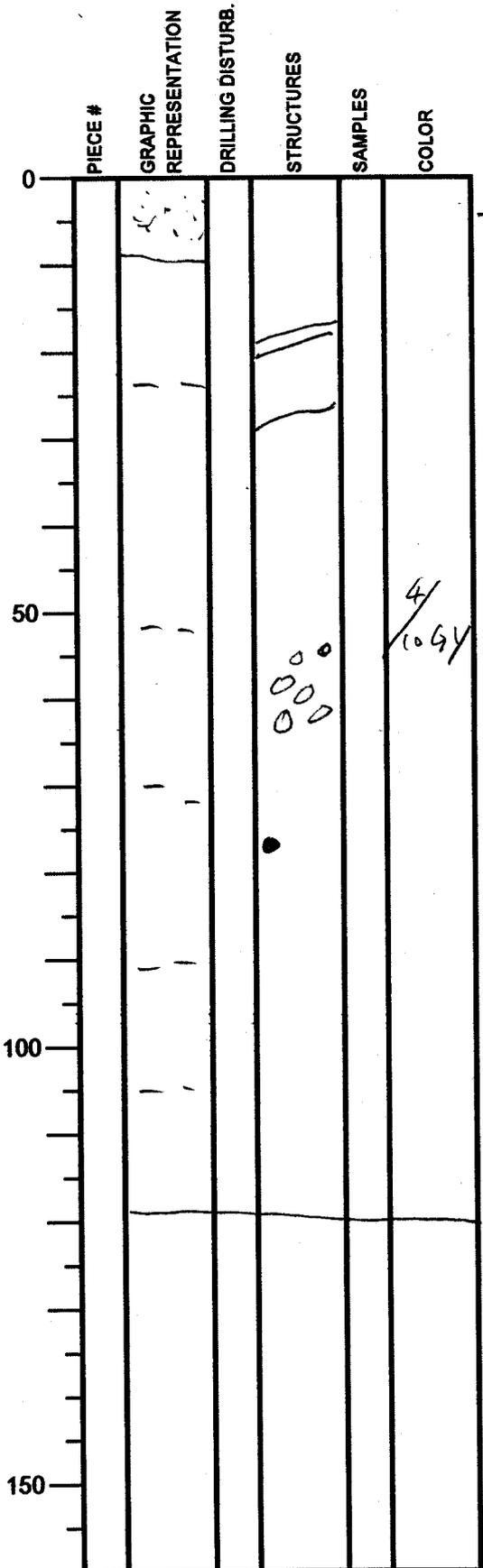
Silty clay,
 with ash layers
 and clasts throughout
 the core. Sand (volcanic
 ash) occurs at 108-110
 cm (turbidite).

-SS = 113 cm (ash/sand)

Integrated Ocean Drilling Program Visual Core Description

NO. 314
 DATE: 2/11/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 1H
 SECTION: 07
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

- SS
 ||
 5cm
 (th)
 ash

Volcanic sand with color variation in layers.

silty clay layers, interlayered with ash; an ash clast occurs at 76-77cm.

4/
 1064

Disturbance (bioturbation?) in 54-69cm.

Integrated Ocean Drilling Program Visual Core Description

NO. 315
 DATE: 2/17/2010
 EXP.: 323
 SITE/HOLE: COO11D
 CORE: 1H
 SECTION: 09
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
50	(Hand-drawn wavy lines representing sediment layers)				4/10gy
100	(Hand-drawn wavy lines representing sediment layers)		↑F		
150					

SECTION DESCRIPTION

OBSERVER: S Gao

silty clay interlayered
 with ash. "Bioturbation"
 at 7-16 cm, 36-43 cm.

- SS = 100 (cm) (hemifabrigic mud)

Integrated Ocean Drilling Program Visual Core Description

NO. 316
 DATE: 2/14/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 1H
 SECTION: CC-AA
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

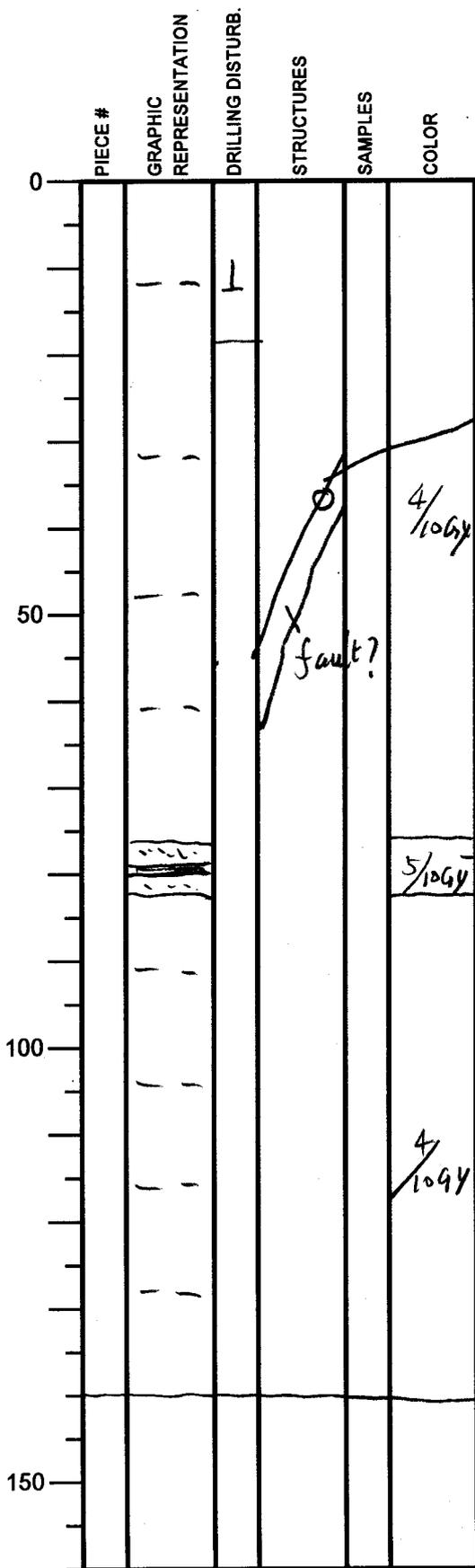
The same as
 1H-09.

Integrated Ocean Drilling Program

Visual Core Description

NO. 317
 DATE: 2/1/2010
 EXP.: 333
 SITE/HOLE: 0011D
 CORE: 2H
 SECTION: 01
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

Gilty clay, with ash layers and clasts scattering throughout the core

Fault: a fault appears to be present between 35 ~ 66 cm.

Light colored ash sand, with its bottom layer being "green".

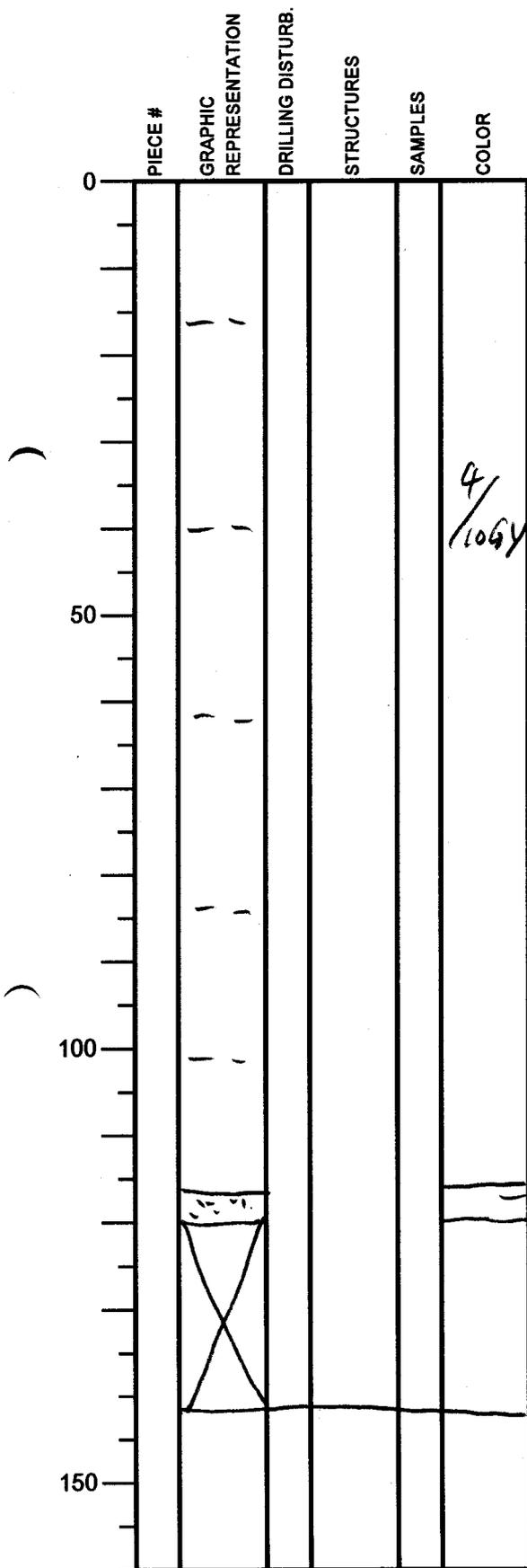
SS = 82 cm

EOC = 140 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 318
 DATE: 21/12/2010
 EXP.: 833
 SITE/HOLE: C0011D
 CORE: 2H
 SECTION: 02
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: S Gao

Silty clay with ash layers and clasts.

4/10GY

6/10GY Light colored volcanic ash layer.

Integrated Ocean Drilling Program

Visual Core Description

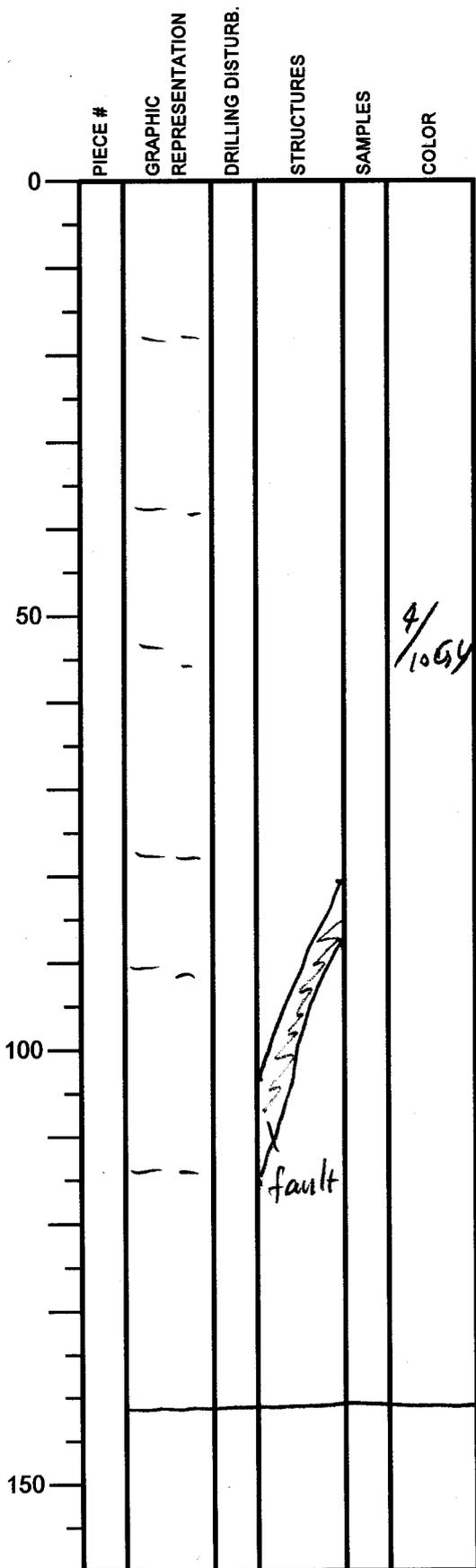
NO. 319
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: 00011D
 CORE: 2H
 SECTION: 03
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: S Gao

Silty clay, with
 ash layers and
 clasts.

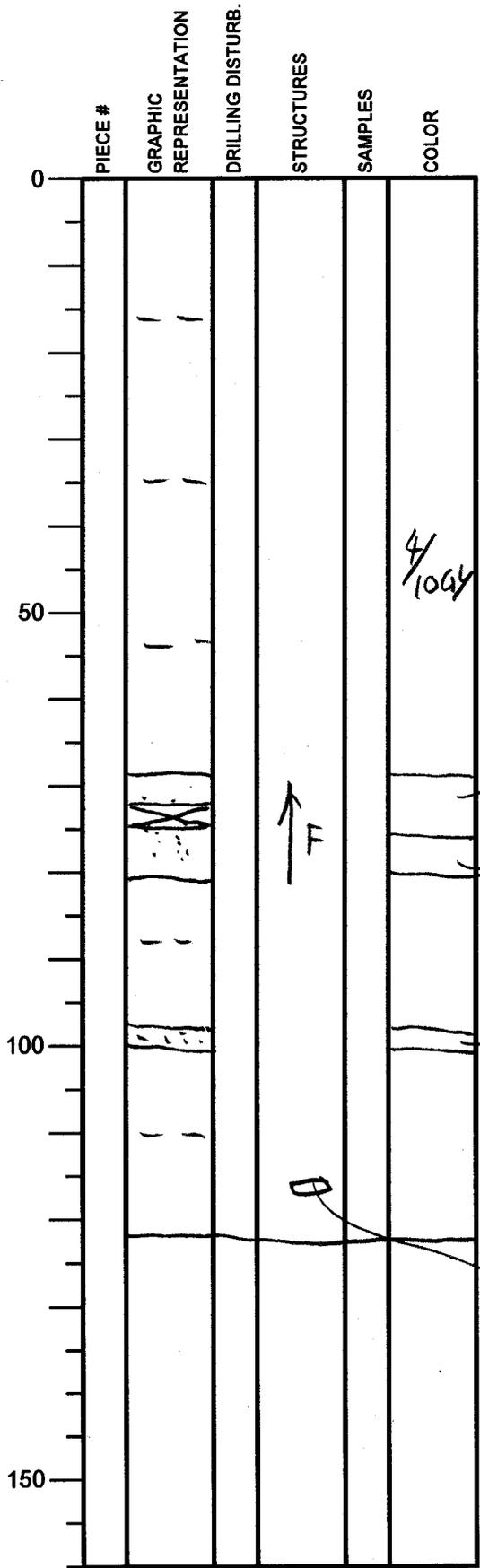
A significant fault
 occurs between
 82 ~ 118 cm. The
 strata underneath
 have been distorted.



Integrated Ocean Drilling Program

Visual Core Description

NO. 320
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 2H
 SECTION: 04
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: S Gao

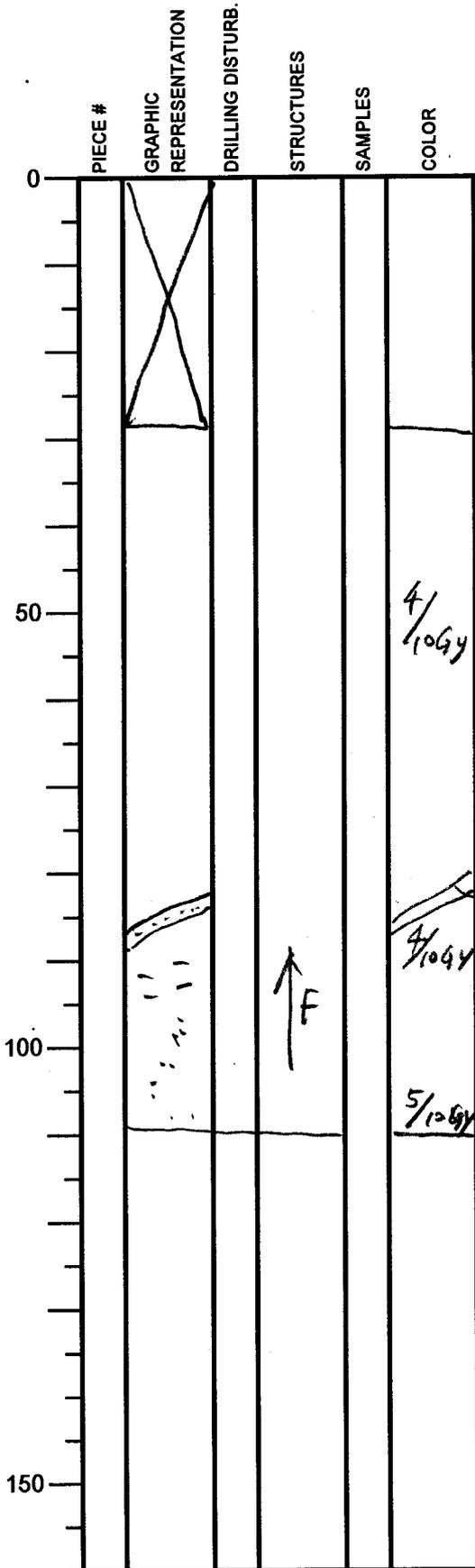
Silty clay, with
 ash layers and
 clasts (a large one
 about 2.2 cm in
 diameter occurs
 at 119 cm.

Integrated Ocean Drilling Program

Visual Core Description

NO. 321
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 2H
 SECTION: 07
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

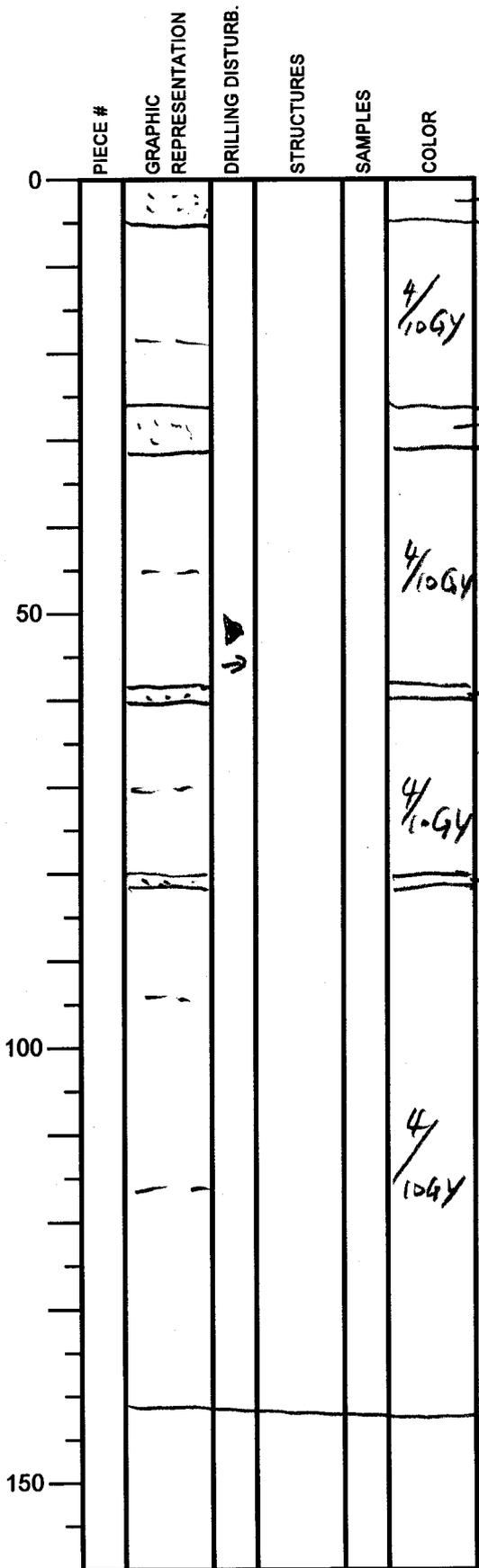
Silty clay, with ash layers and clasts throughout the core. Light colored ash layers occur at 84-85 cm and the bottom of the core (which shows fining upward trend).

Integrated Ocean Drilling Program

Visual Core Description

NO. 322
 DATE: 7/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 2H
 SECTION: 08
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

Severely disturbed during drilling, but ash layers can be identified at 0-5 cm, 27-32 cm, 58-60 cm, and 81-82 cm. Other material is silty clay. The ash layer in 27-32 cm appears to have cross-bedding, indicating transported in flow.

Integrated Ocean Drilling Program

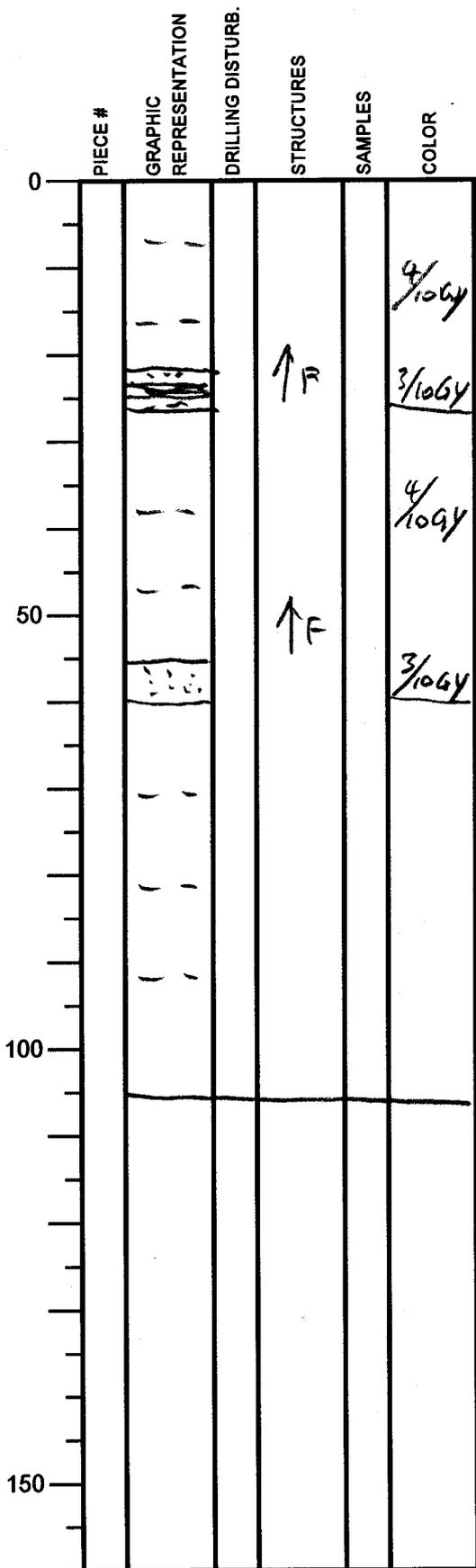
Visual Core Description

NO. 323
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 2H
 SECTION: 09
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: S Gas

Silt clay with
 ash layers and clasts.
 Two ash layers (dark
 colored) are present,
 at the bottom of the
 lower ash layer there
 a green colored layer.
 They show fining
 upward trend.



Integrated Ocean Drilling Program

Visual Core Description

NO. 324
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 2H
 SECTION: CC-AA
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		X				
10						
20			▲			
30			▲			4 /10GY
50						
100						
150						

SECTION DESCRIPTION

silty clay, with
 ash layers and
 clasts.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 325
 DATE: 21/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 3H
 SECTION: 01
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		(Hand-drawn texture)				5/1
		(Hand-drawn texture)		(Hand-drawn squiggle)		3/1
		(Hand-drawn texture)				4/106y
50		(Hand-drawn texture)				
		(Hand-drawn texture)				
		(Hand-drawn texture)				
		(Hand-drawn texture)		↑ F		3/1
100		(Hand-drawn texture)				4/1
		(Hand-drawn texture)		↑ F		3/1
		(Hand-drawn texture)				4/1
		(Hand-drawn texture)		↑ F		3/1
150		(Hand-drawn texture)				

SECTION DESCRIPTION

OBSERVER: S Gas

silty clay in the upper part of the core, with an ash layer at the top.

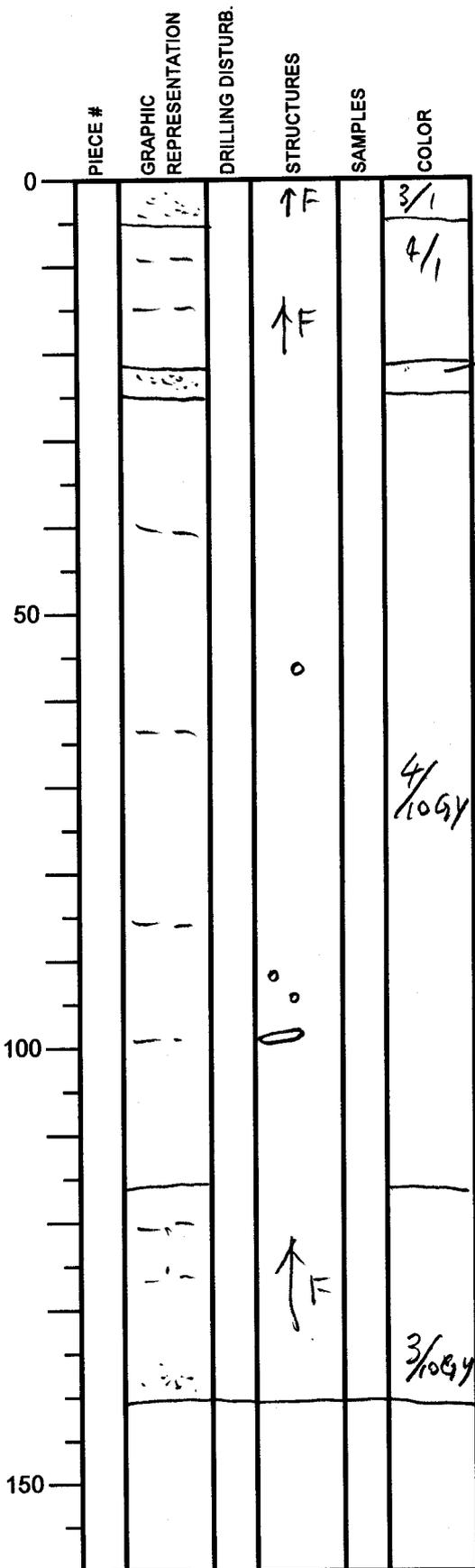
In the lower part of the core, there are 3 fining upward sections, with ash layer at the bottom.

Integrated Ocean Drilling Program

Visual Core Description

NO. 326
 DATE: 1 / 20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: SGaa



SECTION DESCRIPTION

Fining upward,
 silty clay and ash
 layers.

Silty clay, with
 ash clasts of diameter
 of up to 1cm.

Brownish silt, with
 a fining upward trend.

Integrated Ocean Drilling Program

Visual Core Description

NO. 327
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: 03
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						4/1
75				↑F	4/1 3/1	4/1 3/1
100				↑F	4/1 6/1 4/1 3/1	-SS
125				↑F	6/1 4/1 3/1	
150					6/1	4/1

SECTION DESCRIPTION

OBSERVER:

Silty clay, with ash layers and clasts.

Three fining upward sections, with ash at the bottom.

silty clay.

Smear slides 101.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 328
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: 04
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		-				
50		- - -				4/1
100		- - -		↑ F		4/1 5/1
150		- - -				

SECTION DESCRIPTION

2/1064 Dark brown ash.

silty clay, with ash layers and clasts.

— A fining upward section, ash (light colored) at the bottom.

OBSERVER:

Integrated Ocean Drilling Program

Visual Core Description

NO. 329
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: 06
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER:

Silty clay, with ash layers and clasts

A fining upward layer, ash at the bottom.

Silty clay, with ash clasts.

Integrated Ocean Drilling Program Visual Core Description

NO. 330
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: 07
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				(
50	*				4/106	(- SS)
100						
150						

SECTION DESCRIPTION

OBSERVER:

Silty clay, with ash layers and clasts. Some disturbance features (bioturbation?)

Smear slide at 32cm

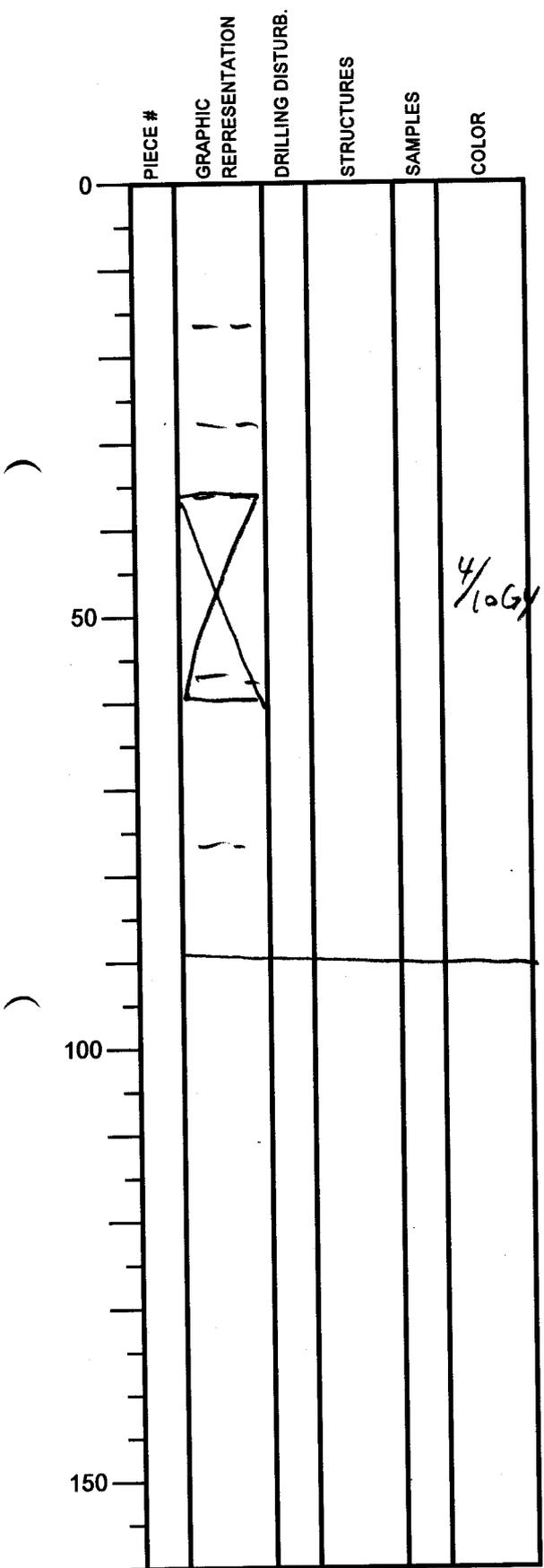
Integrated Ocean Drilling Program Visual Core Description

NO. 33)
 DATE: / /20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: 08
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER:

The same as
3H-07 section.



Integrated Ocean Drilling Program Visual Core Description

NO. 332

DATE: / /20

EXP.:

SITE/HOLE:

CORE:

SECTION: CC-AA

TOP DEPTH (m CSF):

OBSERVER: S. Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		X				
						3/1
						5/1
						6/1
						4/1
50						
100						
150						

SECTION DESCRIPTION

Brownish silty clay.

Ash, light colored.

silty clay.

EOC = 45 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 333
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 4H
 SECTION: 1-AA
 TOP DEPTH (m CSF):

OBSERVER: *J.L.*

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					1/2-1901
	>>>				
50	/ / / / /		ADXR BSWR		
	>>>				
100					1/2-1901
	>>>		● ● ● ●		
150					

SECTION DESCRIPTION

Ash layers, the upper light gray, the lower green
 10Y-6/1
 10GY-3/1

Dark greenish gray silty clay with several thin sand/silt layers, one silty clay shows color mottling

⇒ Slightly - moderately bioturbated hemipelagic silty clay including turbidite, thin sand/silt layers and two ash layers

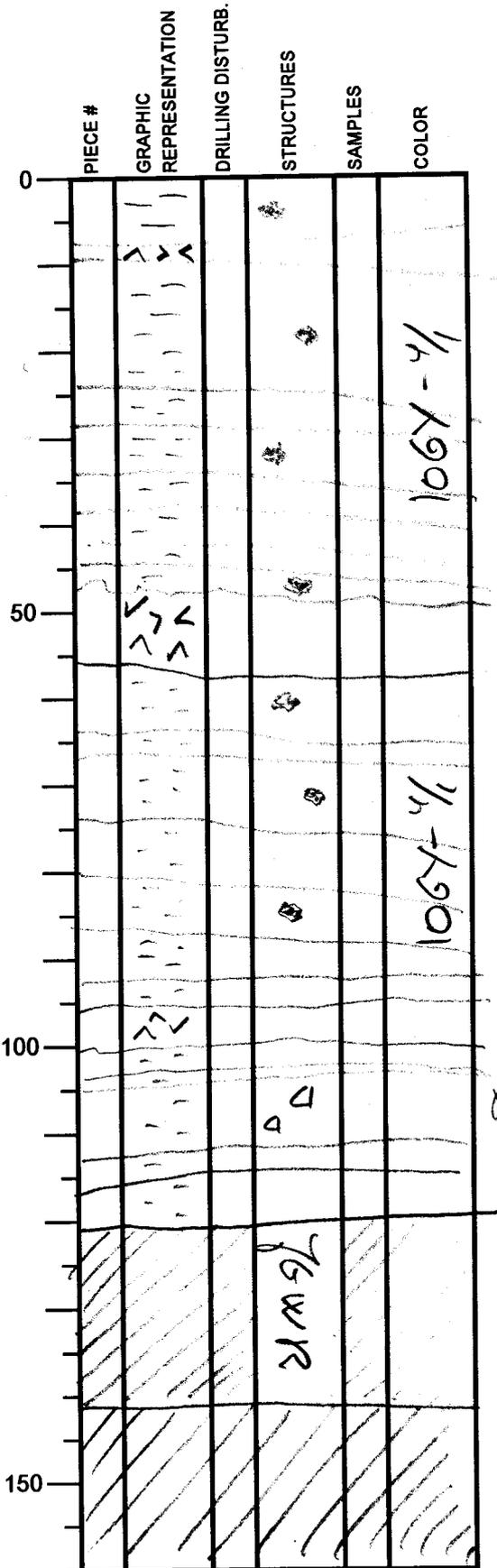
□ Ash layers, later affected by bioturbation
 10Y-6/1 Gray

EOC = 142 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 334
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 44
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: JAL.

Ash layer

Dark greenish gray silty clay with a number of thin sand/silt layers, the silty clay shows color mottling and coarser patches of ash.

⇒ Heteripelagic silty clay, moderately bioturbated, including a number of thin, tubular layers and thin ash layers.

Ash layer

Patches of ash

EOC = 1412 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 335
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 4H
 SECTION: 3
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: *JAL*

Patches of ash

*Hemipelagic silty clay
 + thin turbidite silt/bed
 layers*

EOC = 62 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 336
 DATE: 2/21/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 44
 SECTION: 4
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: *JL*

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

Hemipelagic silty clay
 + thin ferruginous silt/sand layers

EOC = 23 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 337
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 4H
 SECTION: 6
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
					1/1-1901
50					10
					1/1-1901
100					
150					

SECTION DESCRIPTION

OBSERVER:

** Smear slide at 58cm*

Light gray ash layer, profound bioturbation in the upper part

Ash layer, light gray

Dark greenish gray silty clay with a number of thin silt/sand layers, the silty clay comprises color mottling.

⇒ Hemipelagic silty clay, moderately bioturbated including a number of thin tubular layers and two ash layers.

EOC = 119.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 338
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 4H
 SECTION: 7
 TOP DEPTH (m CSF):

OBSERVER: J. L.

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

SECTION DESCRIPTION

Patch of ash
 light gray layer
 of ash, severely
 bioturbated in the upper part

Hemipelagic silty clay,
 moderately bioturbated
 including thin tubicolite beds
 and a ash layer.

Patch of ash

EOC = 141 cm

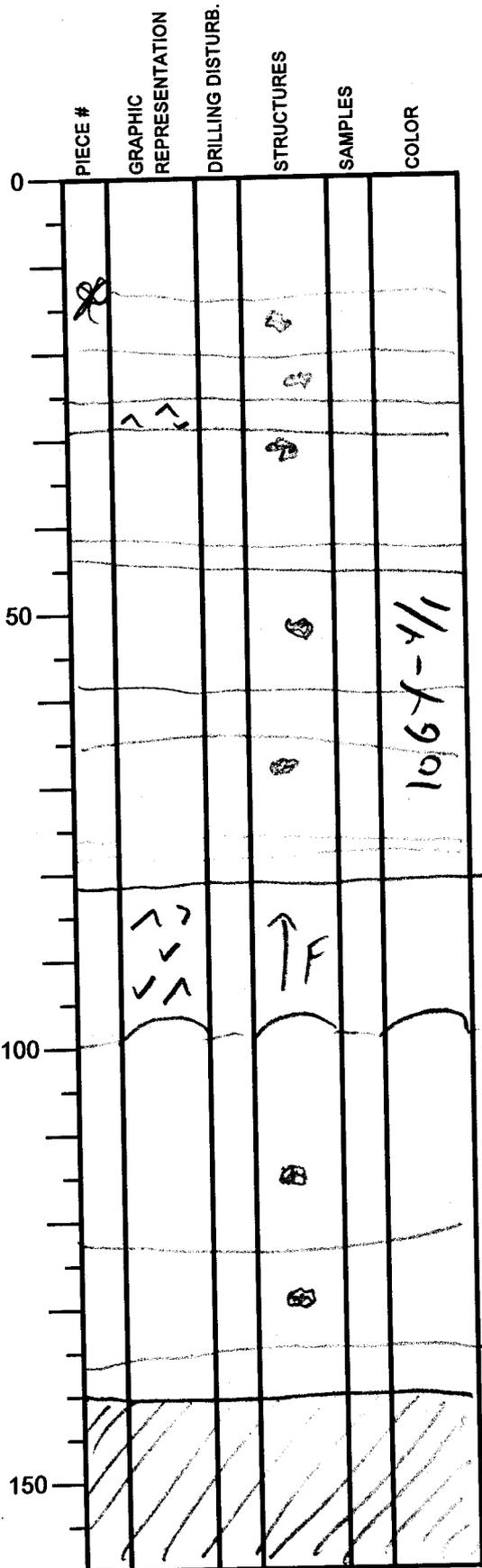
Integrated Ocean Drilling Program

Visual Core Description

NO. 339
 DATE: 27/12/2010
 EXP.: 332
 SITE/HOLE: C00110
 CORE: 4H
 SECTION: 8
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: J. L.



Ash layer, light gray

* Smear slide at 130

Ash layer, light gray
bioturbated in upper part

Hemipelagic silty clay,
moderately bioturbated,
including thin burr-like
layers and two ash layers.

ECC = 140 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 340
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 4H
 SECTION: C.C.
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER:

J.L.

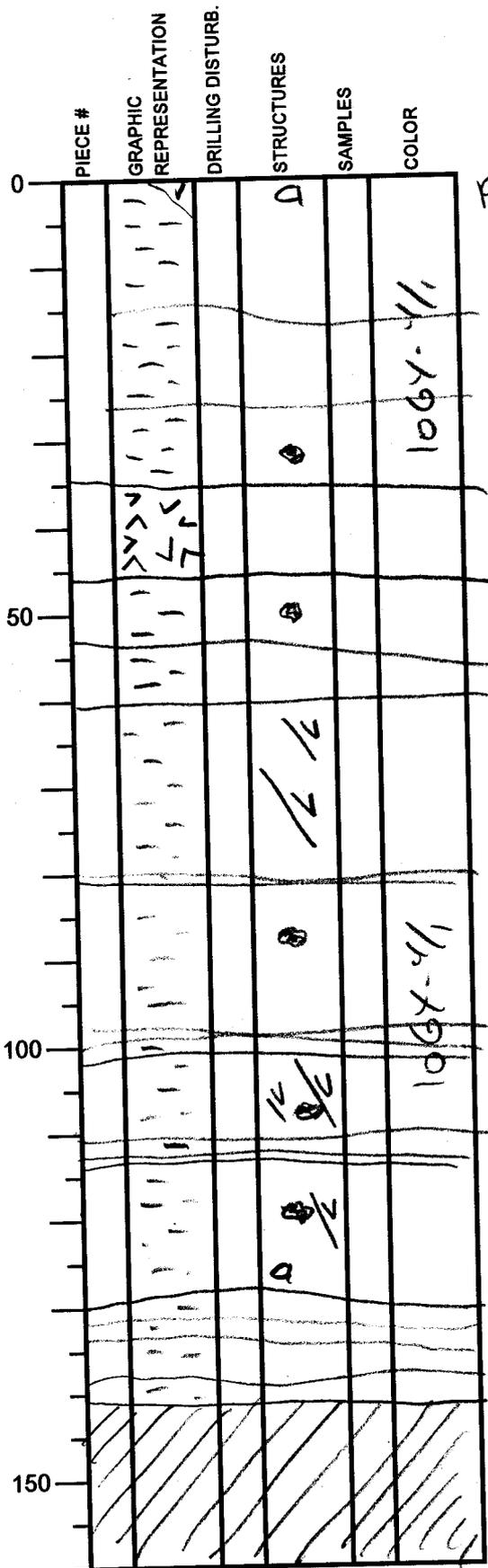
Hemipelagic silty clay

EOC = 23.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 341
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: OSH
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER:

SECTION DESCRIPTION
 Patch of ash

Layer of ash

Normal fault b

Normal faults

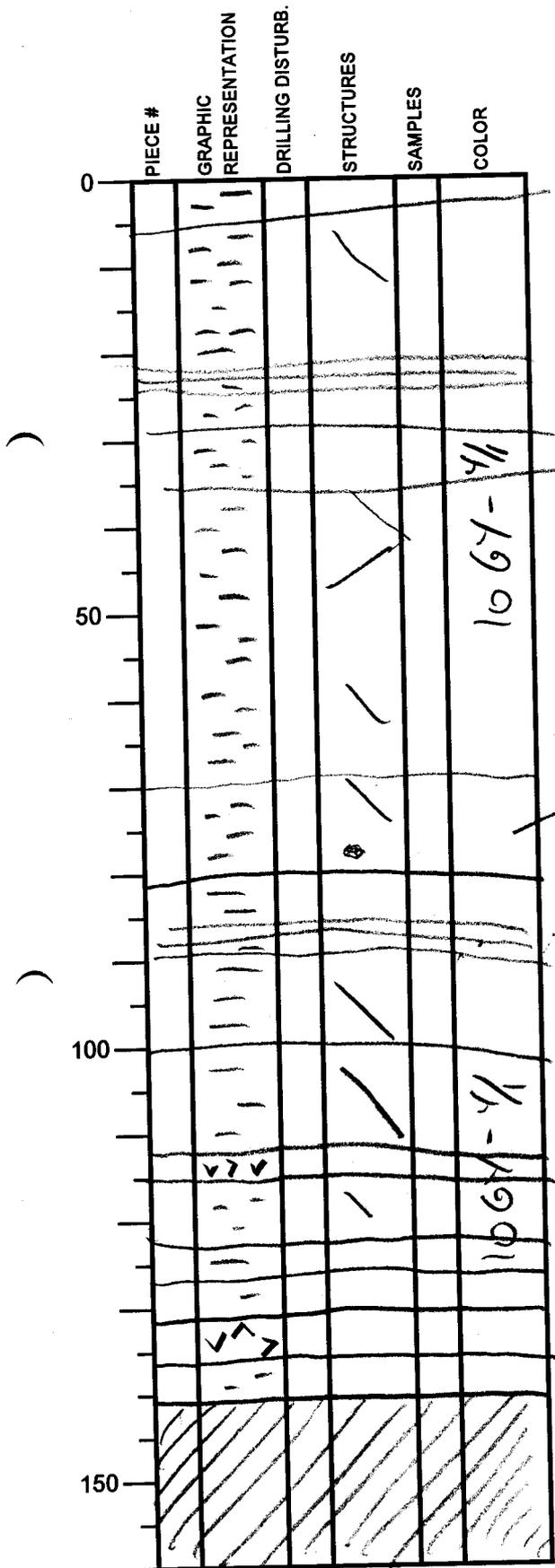
Normal faults
 Patches of ash

Heterogeneous silty clay, noticeably
 disturbed, including a number
 of thin silty-sandy turbidite
 layers and a ash layer.
 The section is affected by
 normal faults.

EOC = 141 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 342
 DATE: 22/2/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: OSH
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *Jal.*

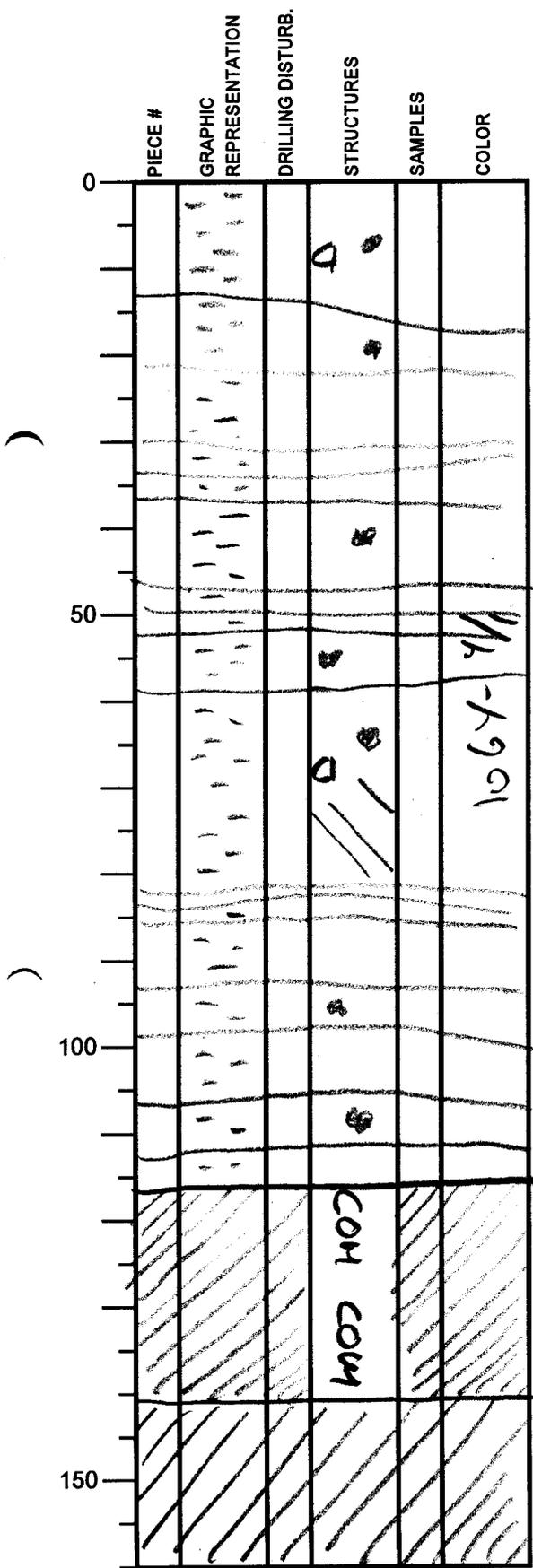
EOC = 141 cm

4 micropelagic silty clay, slightly -
 moderately bioturbated, including a
 number of thin silty and/or sandy
 turbidite layers and two ~~sh~~ layers.
 This section is also affected by
 faults.

Integrated Ocean Drilling Program

Visual Core Description

NO. 343
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 5
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

Patch of ash

Color mottling

Faults

Hemipelagic silty clay, slightly-moderately bioturbated, including several thin silt and/or sandy turbidite layers.

This section is also affected by faulting.

OBSERVER: *Jal*

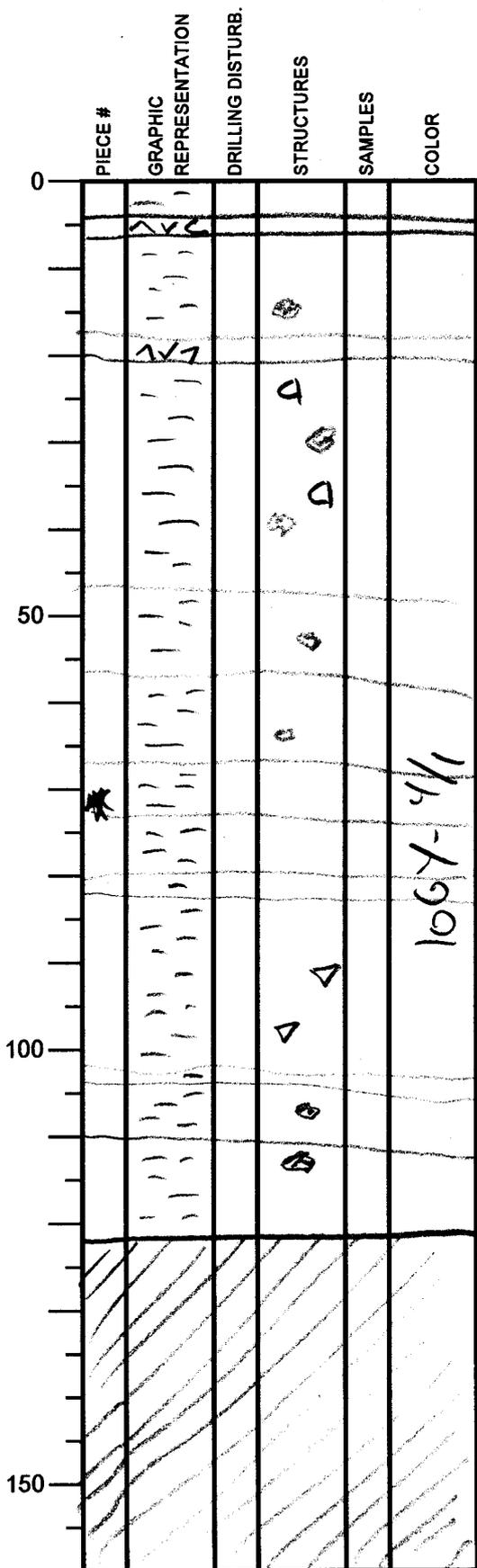
EOC = 140.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 344
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 5
 SECTION: 4
 TOP DEPTH (m CSF):

OBSERVER: *J.L.*



SECTION DESCRIPTION

Ash layer, light gray

Ash layer, light gray
Patch of ash

Color mottling
Patch of ash

Smear slide at 71 cm

1067-4/1

clasts
clasts

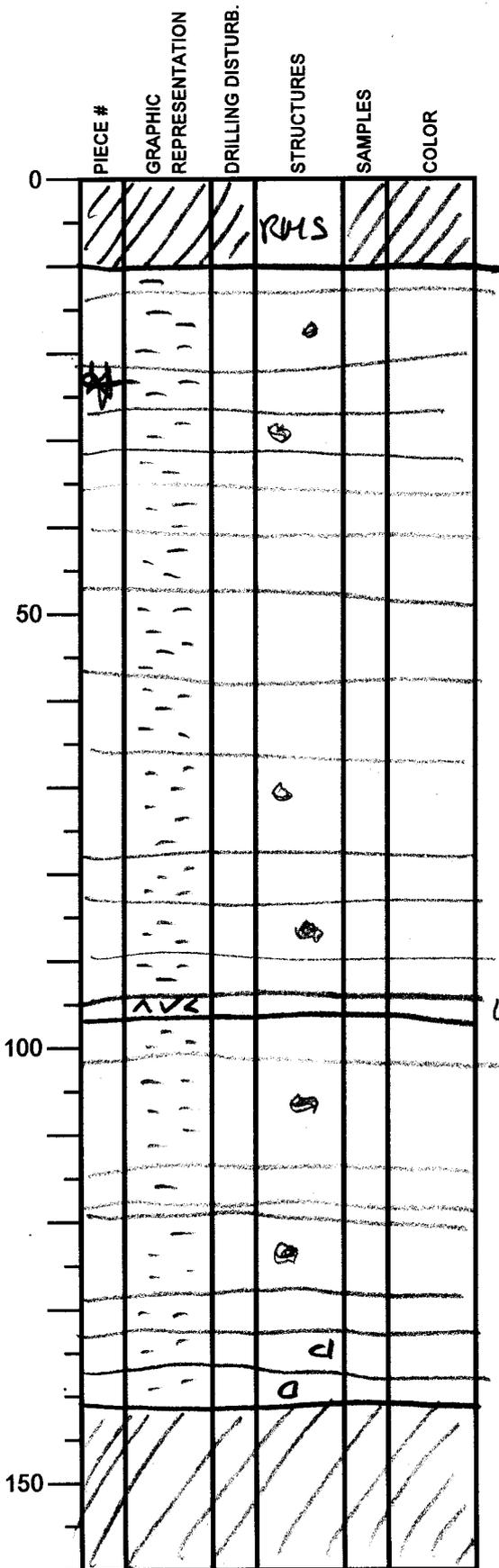
Hemipelagic, dark greenish gray
 silty clay, moderately
 bioturbated + several thin
 silty ash/sandy siltstone layers

EOC = 122 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 345
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: COO110
 CORE: 5
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

J. L.

Hemipelagic, dark greenish gray silty clay, moderately bioturbated, several thin silt and/or sandy forficulate layers/laminations

Smear slide at 24cm

Light gray ash layer

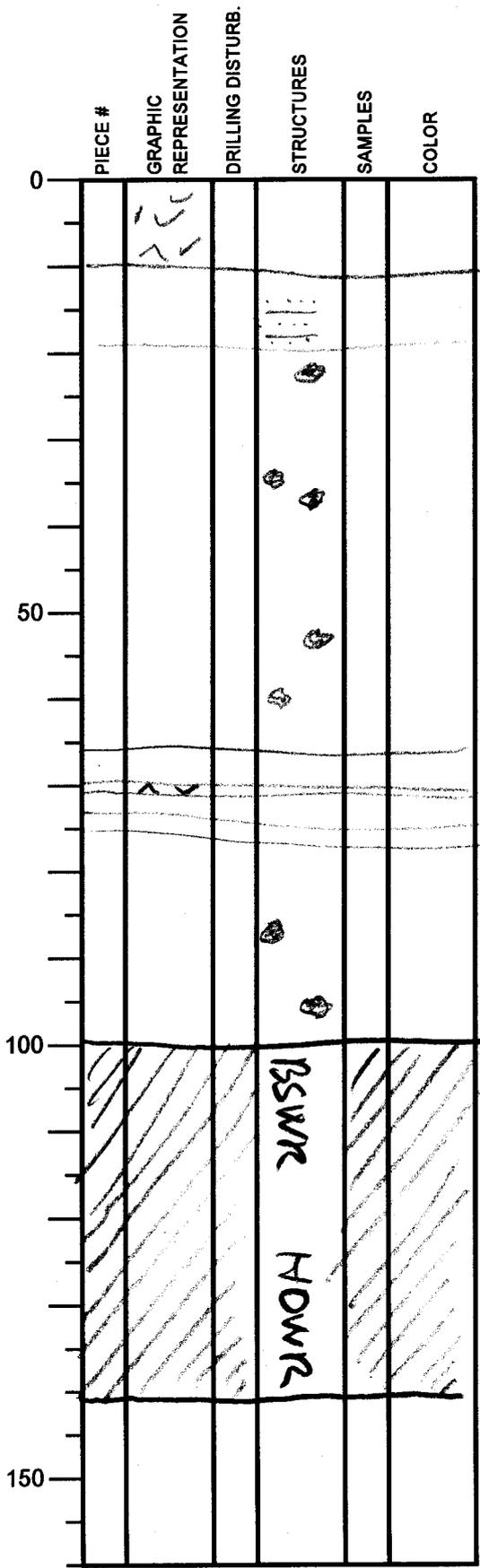
Patches of ash

EOC = 141 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 346
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 5
 SECTION: 7
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: JAL

Light gray ash layer laminated in the lower part

Thin ash layer, light gray

Hemipelagic, dark greenish gray silty clay, moderately bioturbated, several thin silt and sandy siltstone laminae + two light gray ash layers.

EOL = 140.5m

Integrated Ocean Drilling Program

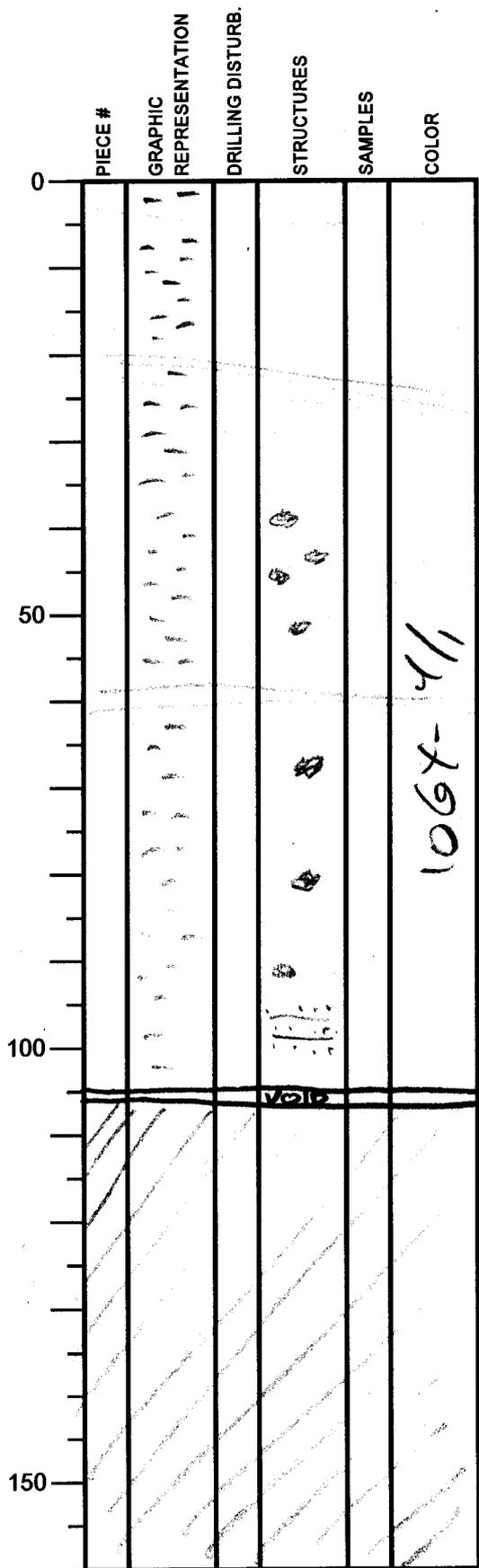
Visual Core Description

NO. 347
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 5
 SECTION: 8
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER:

JAL.



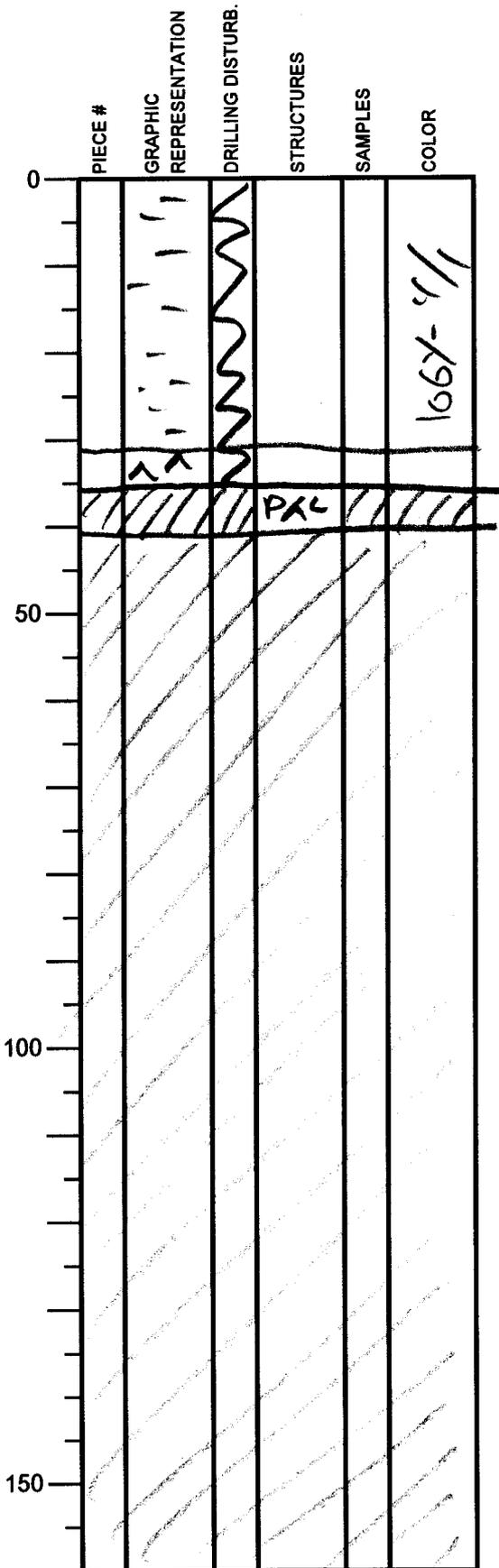
Heterogeneous silty clay
 moderately disturbed +
 some silt laminae and
 color banding

EOC = 106 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 348
 DATE: 2/12/2010
 EXP.: 33
 SITE/HOLE: C00110
 CORE: 5
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: JKL

hemipelagic silty clay overlies an ash layer, light gray

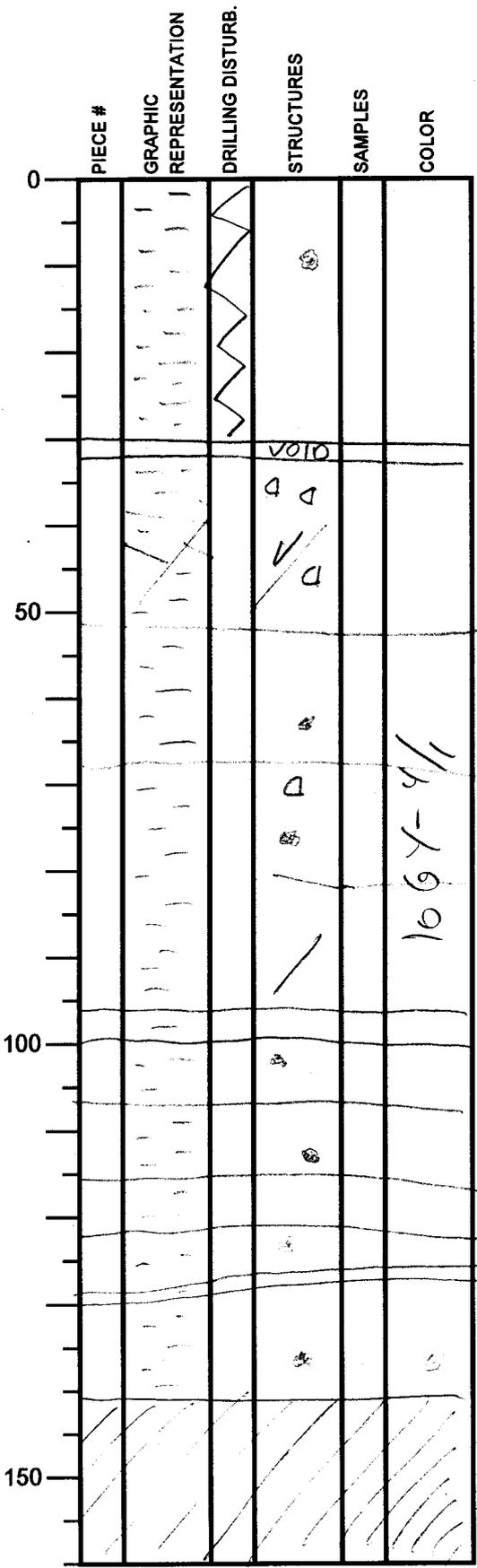
EOC = 46.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 349
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 6
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: *Jal.*



SECTION DESCRIPTION

Faults, normal

Fault

*Dark greenish gray silty clay,
 slightly - moderately bioturbated,
 + several thin silty and/or sandy
 turbidite laminae / layers*

EOC = 142 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 350
 DATE: 22/2/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 6
 SECTION: 2
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
			•		
			✓		
50			•		106Y-11/1
			•		
			•		N6-W7
100			VOID		106Y-11/1
			•		
150			•		

SECTION DESCRIPTION

OBSERVER: *Jac.*

Normal fault

Light gray - gray ash layer

Dark greenish gray hemipelagic silty clay, slightly bioturbated + several thin silty and/or sandy forficulate layers/laminae + a light gray - gray ash layer

EOC = 140.5m

Integrated Ocean Drilling Program

Visual Core Description

NO. 351
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 6
 SECTION: 3
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		/ / / / /		AHWR YHWR		
50						1067-1091
100		> > > >		D		106-W7
150		/ / / / /				

SECTION DESCRIPTION

OBSERVER: *J. L.*

Light gray ash layer

Patch of ash

Light gray-gray -SS (114 cm) ash layer

Dark greenish gray hemipelagic silty clay, slightly bioturbated + two ash layers

EOC = 117.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 352
 DATE 22/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 6
 SECTION: 5
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER:

J.L.

Some color mottling

Outsized clast
 Facies normal

Dark greenish gray hemipelagic silty clay, slightly bioturbated, including a outsized clast and a interval of normal faulting.

EOC = 140 cm

Integrated Ocean Drilling Program

Visual Core Description

NO: 353
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 6
 SECTION: 6
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				*		
						WS-WG
50				*		
				*		10G-1-1
100				*		
				*		WS
150		/ / / / /				

SECTION DESCRIPTION

OBSERVER: *fa L.*

Gray-light gray layered Manganese ash layer
 - SS (29.5 cm)

Dark greenish gray variegated silty clay, slightly disturbed + fine ash layers and several thin silty and/or sandy foraminiferic layers/lamina

Zone of several thin ash layers

EOC = 14.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 354
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: CO011D
 CORE: 6H
 SECTION: 07
 TOP DEPTH (m CSF):

OBSERVER: S Gas

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

SECTION DESCRIPTION

Silty clay,
 with ash layers
 and clasts, notably
 in 113-114cm.

4/
 106Y

— ss (83 cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 355
 DATE: 22/7/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 6H
 SECTION: 08
 TOP DEPTH (m CSF):

OBSERVER: S Gao

SECTION DESCRIPTION

The same as
 6H-07 section,
 with ash layer
 in 40-45 and
 106-107 cm.

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50		(Hand-drawn sketch of ash layer)			4/1	
100		(Hand-drawn sketch of ash layer)				
150						

Integrated Ocean Drilling Program

Visual Core Description

NO. 356
 DATE: 22/1/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 6H
 SECTION: CC-AA
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

silty clay.

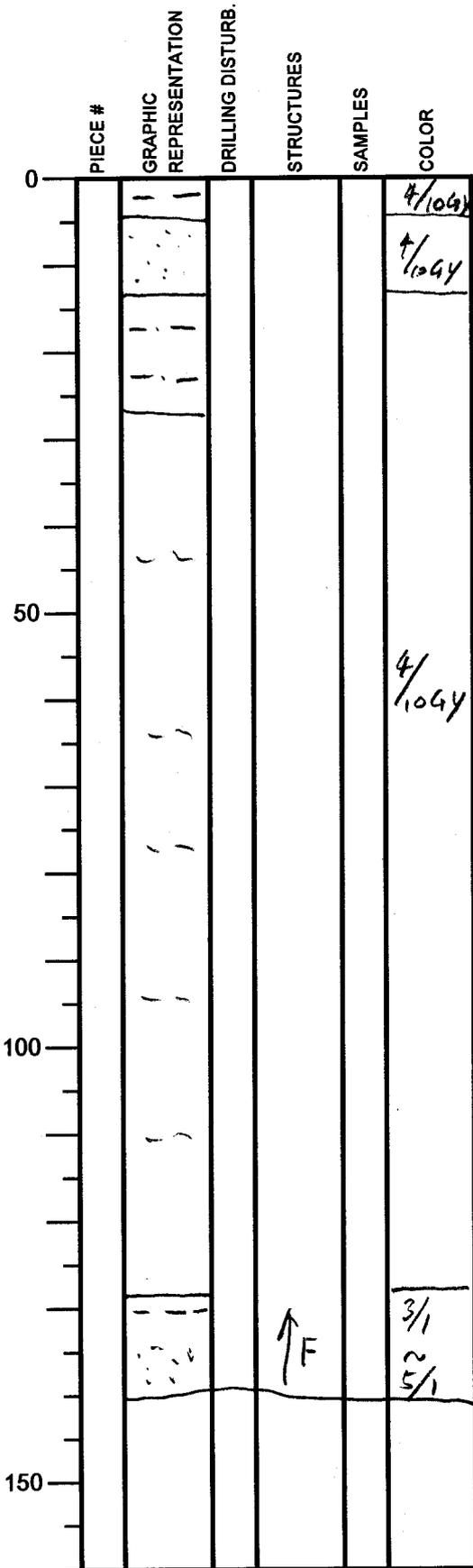
OBSERVER: S Gas

Integrated Ocean Drilling Program

Visual Core Description

NO. 357
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 7H
 SECTION: 01
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

Silty clay
 Sand & silt, ash layer
 silty clay, with ash layers and clasts throughout the section.

-SS (70cm)

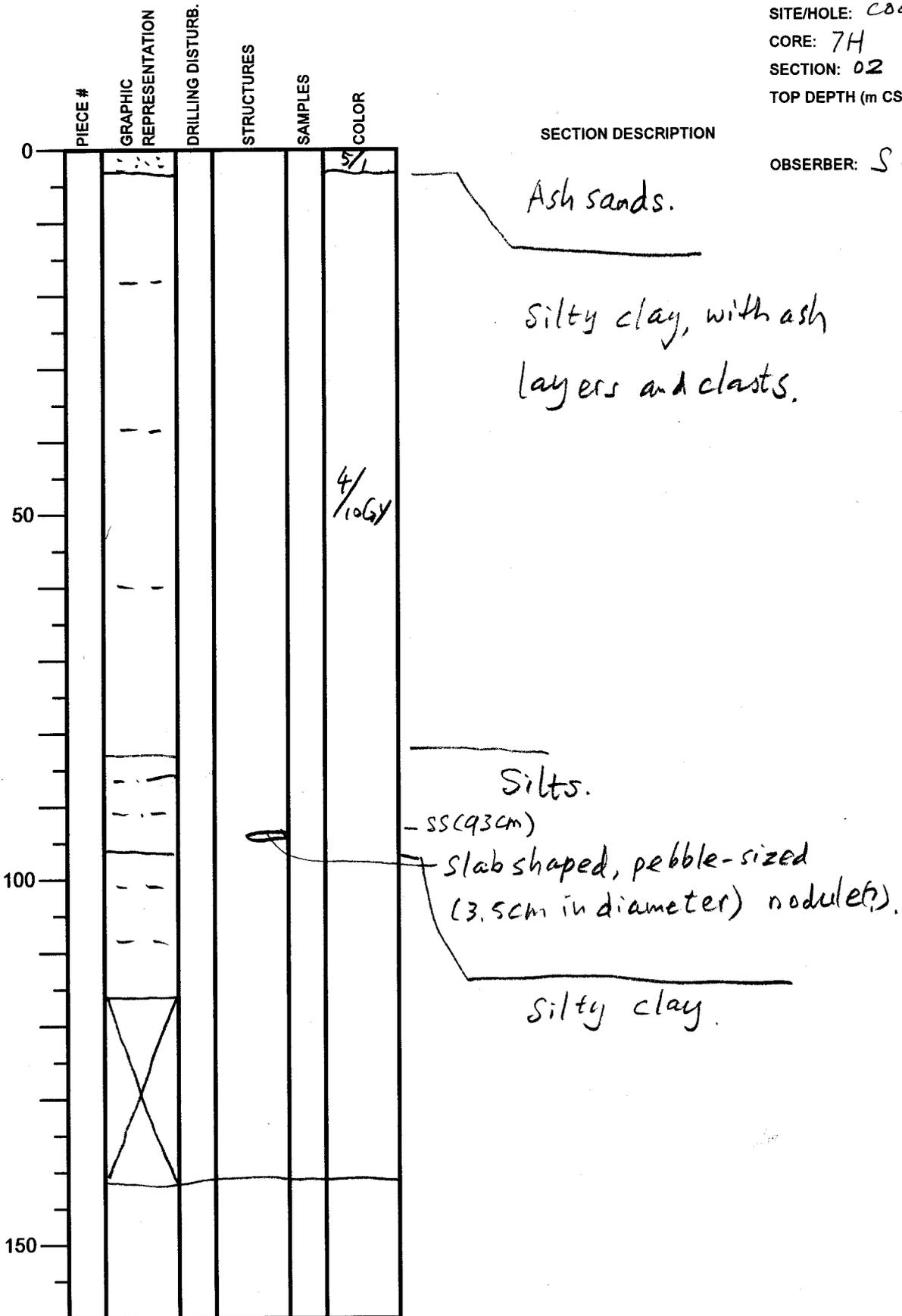
Fining upward, with sandy ash material at the bottom

Integrated Ocean Drilling Program

Visual Core Description

NO. 358
 DATE: 22/2/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 7H
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: S Gas



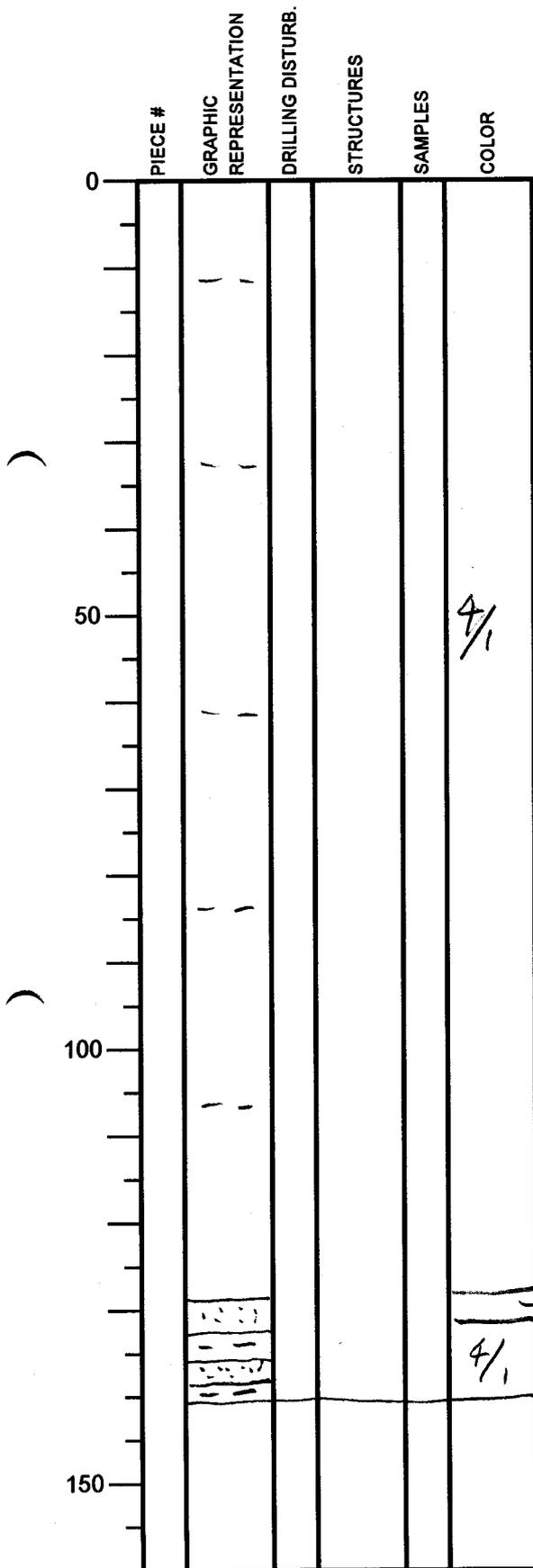
Integrated Ocean Drilling Program

Visual Core Description

NO. 359
 DATE: 22/4/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 07H
 SECTION: 03
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: S Gao



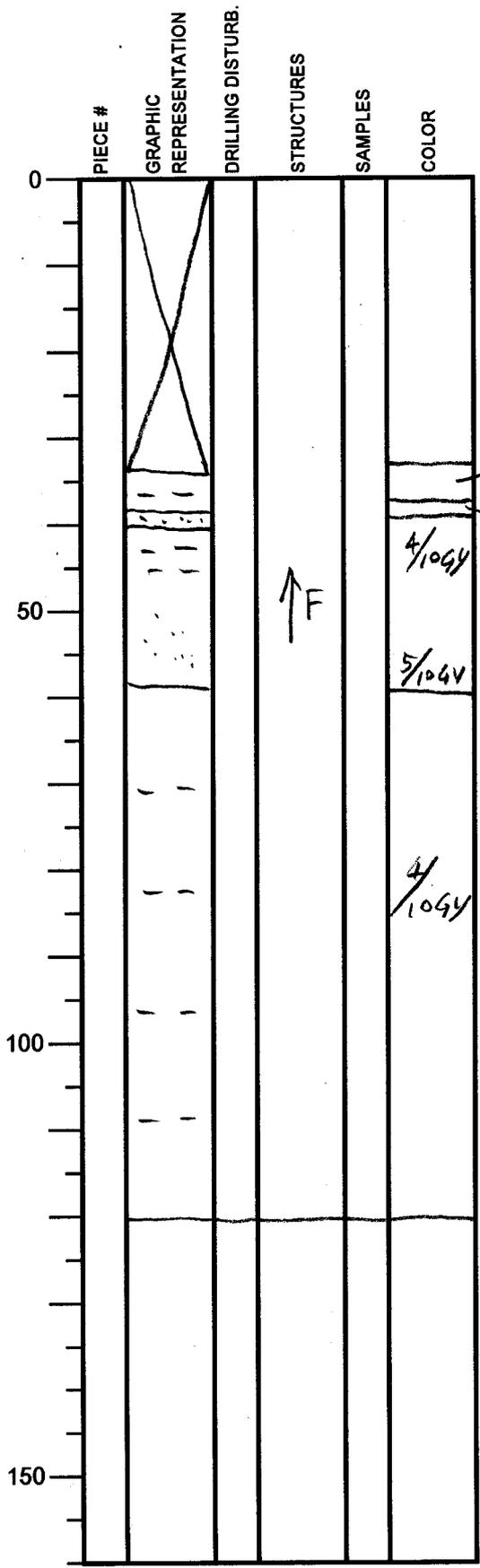
Silty clay, with
 layered ash and
 ash clasts; two
 sand-sized ash
 layers occur at
 129-133 and 137-138
 cm, at the lower
 part of the section.

Integrated Ocean Drilling Program

Visual Core Description

NO. 360
 DATE: 27/2/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 7H
 SECTION: 05
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

silty clay.

4/10GY Sand-sized ash layer.
 6/10GY ash layer.

Light-colored ash layer, with silty clay at the top part. Fines upward.

silty clay, with ash clasts scattered and gravels (light colored)

Integrated Ocean Drilling Program

Visual Core Description

NO. 361
 DATE: 27/4/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 7H
 SECTION: 06
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: S Gao

Silty clay, with
 gravel-sized, light
 colored ash fragments.
 (Pumice?)

Integrated Ocean Drilling Program

Visual Core Description

NO. 362
 DATE: 2/24/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 7H
 SECTION: 07
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as
 7H-06.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 363
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 7H
 SECTION: 08
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

*The same as
 7H-06.*

OBSERVER: *S Gao*

Integrated Ocean Drilling Program

Visual Core Description

NO. 364
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 7H
 SECTION: CC-AA
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

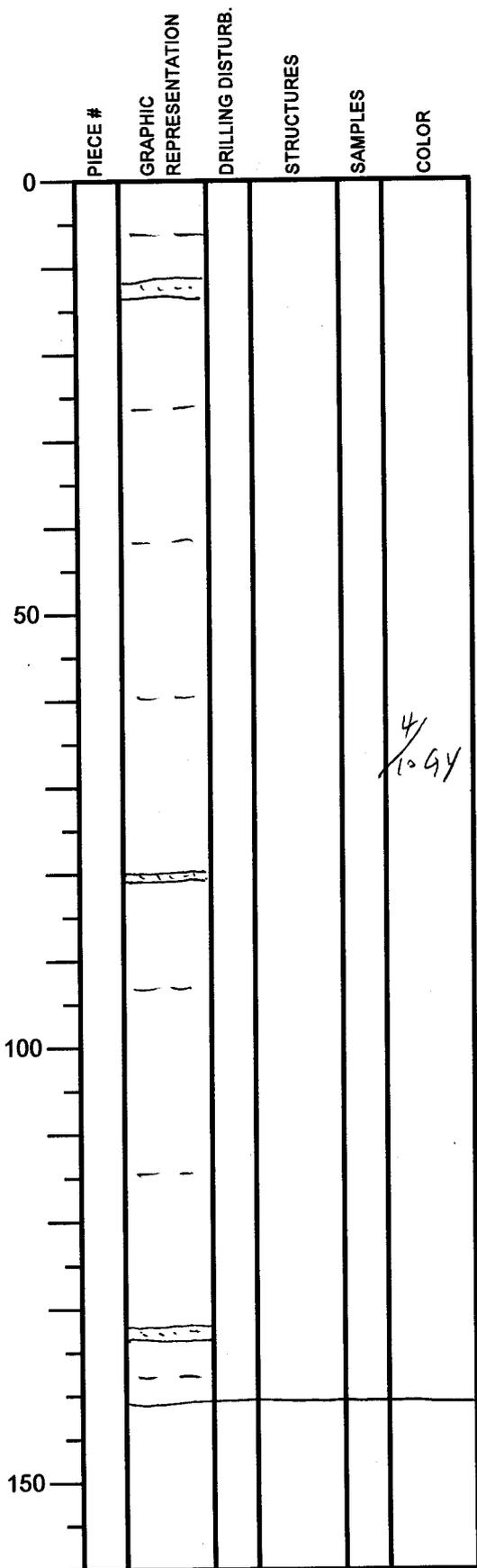
The same as
7H-06.

Comment: The
 homogeneous section
 from 58cm of 7H-05
 to the bottom of
 7H-CC may not be
 true, i.e., caused by
 drilling process.

Integrated Ocean Drilling Program

Visual Core Description

NO. 365
 DATE: 22/2/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 8H
 SECTION: 01
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: S Gao

Greenish grey
 silty clay interlayered
 with volcanic ash.
 Three thin ash sand
 layers occur at
 12-13, 80-81 and 133
 134 cm.

4/
104

Integrated Ocean Drilling Program

Visual Core Description

NO. 366
 DATE: 22/12/20 10
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 8H
 SECTION: 02
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						4/1064
100				↑ F		5/1064
150						

SECTION DESCRIPTION

OBSERVER: S Gao

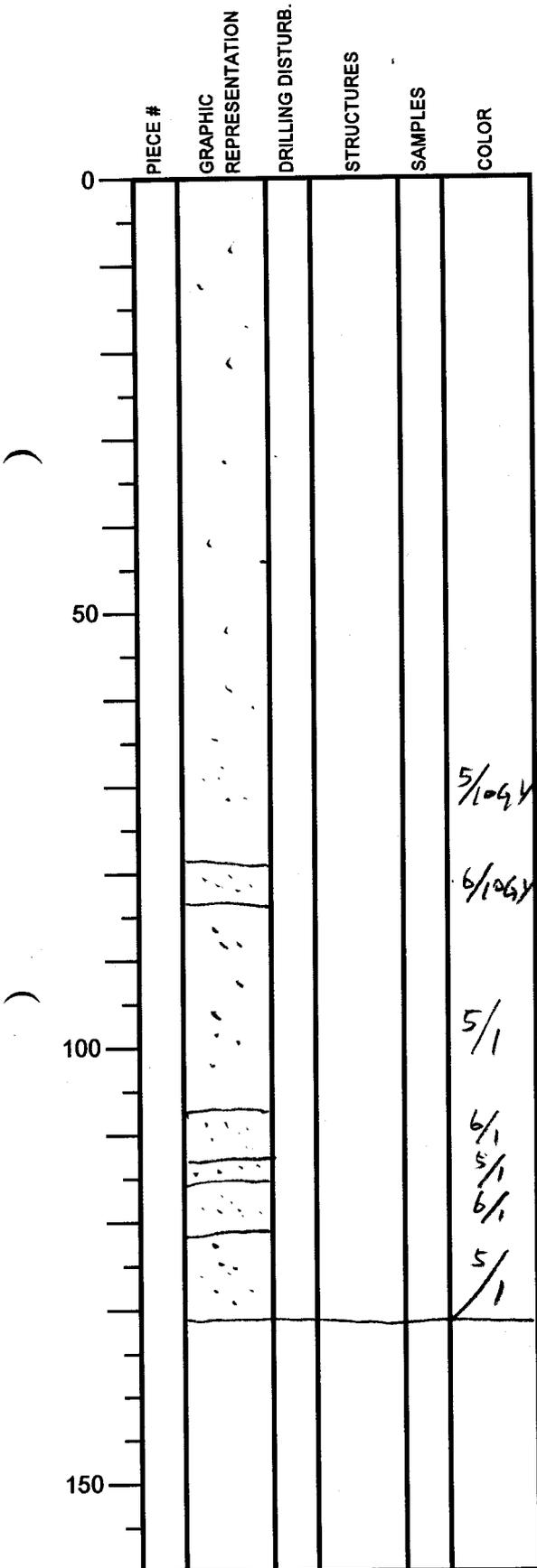
Silty clay with ash layers and clasts.
 Ash layer at the (30cm) bottom, with an upward fining trend.

-SS (81cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 367
 DATE: 22/12/2016
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 8H
 SECTION: 03
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: S Gao

Light grey volcanic
 sands, with finer, lighter
 layers at 79-84, 107-114
 and 116-123 cm.

Integrated Ocean Drilling Program

Visual Core Description

NO. 368
 DATE: 22/2/2010
 EXP.: 333
 SITE/HOLE: CO011D
 CORE: 8H
 SECTION: 04
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50		(Hand-drawn grain pattern)	(Hand-drawn arrow pointing right)			
100						5/10gy
150						

SECTION DESCRIPTION

OBSERVER: S Gao

The same as
 8H-03, with finer,
 lighter-colored sand
 layer being at 93-97
 cm.

Heavily disturbed
 during drilling.

Integrated Ocean Drilling Program

Visual Core Description

NO. 369
 DATE: 22/2/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 8H
 SECTION: 05
 TOP DEPTH (m CSF):

OBSERVER: S Gao

SECTION DESCRIPTION

Volcanic ash sand.

Disturbed during
drilling

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		.				
50		.	▲ ↓			5/1
100		.				
150		.				

Integrated Ocean Drilling Program Visual Core Description

NO. 370
 DATE: 22 12 20 10
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 8H
 SECTION: 06
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

The same as
08H-05.

Integrated Ocean Drilling Program Visual Core Description

NO. 371
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 8H
 SECTION: 07
 TOP DEPTH (m CSF):

OBSERVER: S Gas

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50		(Hand-drawn dots and lines representing sediment texture)				5/1
60		(Hand-drawn dots and lines representing sediment texture)				6/1
70			(Hand-drawn arrow pointing down)			
100						5/1
150						

SECTION DESCRIPTION

The same as
 8H-04, finer,
 lighter-colored
 sand at 26-31 cm,
 and probably in
 other places.

Integrated Ocean Drilling Program

Visual Core Description

NO. 372
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C001D
 CORE: 08H
 SECTION: 08
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as
 8H-07.

OBSERVER: SGao

Integrated Ocean Drilling Program

Visual Core Description

NO. 373
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 8H
 SECTION: CC-AA
 TOP DEPTH (m CSF):

OBSERVER: S Gao

SECTION DESCRIPTION

Volcanic sands

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

Integrated Ocean Drilling Program

Visual Core Description

NO. 374
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: CoolID
 CORE: 9H
 SECTION: 1
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: T. AWES

*Silty clay,
 mottled to green bands +
 some dark patches of ash.*

Smear slide at 8cm

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50					log 4/1	
100	10	D		Green band		
150		14cm		Close		

Integrated Ocean Drilling Program

Visual Core Description

NO. 375
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: COC1D
 CORE: 8H
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: J. AWES

SECTION DESCRIPTION

Mottled silty clay,
 with some green/white bands

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

145cm

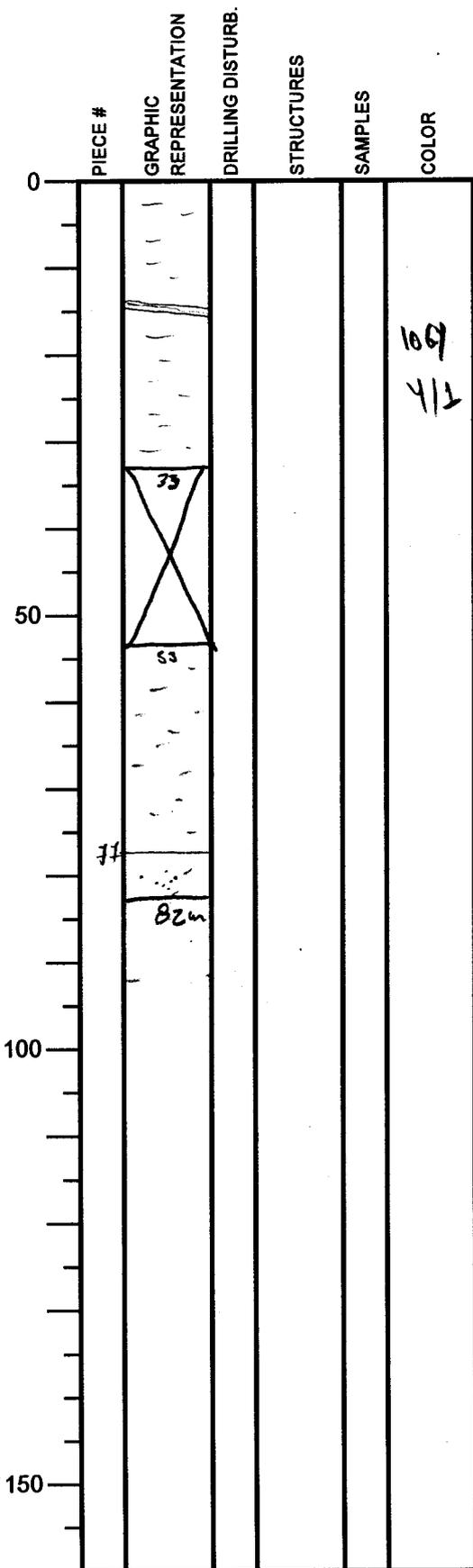
Integrated Ocean Drilling Program

Visual Core Description

NO. 376
 DATE: 7/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 9H
 SECTION: 4
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: T. MUES



Silty clay, mottled by green bands of volcanoclastic silt and patches of volcanic material.

sh

**Integrated Ocean Drilling Program
Visual Core Description**

NO. 377
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: JH
 SECTION: S
 TOP DEPTH (m CSF):

OBSERVER: T. AWES

SECTION DESCRIPTION

Silty clay, mottled by ash

Smear slide at 69cm

ash

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

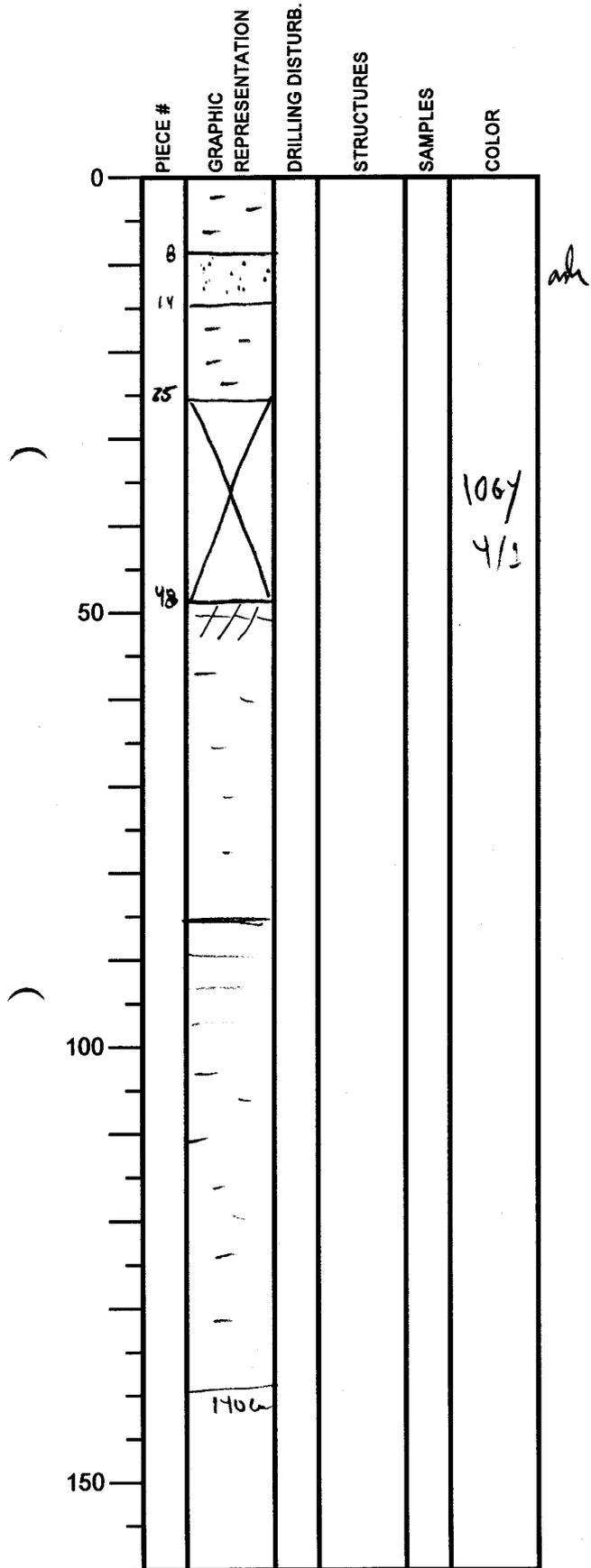
*log
4/1*

Integrated Ocean Drilling Program Visual Core Description

NO. 348
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 9H
 SECTION: 6
 TOP DEPTH (m CSF):

OBSERVER: T. AWES

SECTION DESCRIPTION



Silty clay, mottled + bands of green silt

Integrated Ocean Drilling Program

Visual Core Description

NO. 379
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: CH
 SECTION: 07
 TOP DEPTH (m CSF):

OBSERVER: T. MILES

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

SECTION DESCRIPTION

wh

Silty clay, mottled banded

122m

Integrated Ocean Drilling Program

Visual Core Description

NO. 380
 DATE: 22/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 9H
 SECTION: 8
 TOP DEPTH (m CSF):

OBSERVER: T. AWES

SECTION DESCRIPTION

Silty clay, mottled

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

log
4/3

Integrated Ocean Drilling Program

Visual Core Description

NO. 381
 DATE: 12/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 9H
 SECTION: CC
 TOP DEPTH (m CSF):

OBSERVER: T. ALVES

SECTION DESCRIPTION

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
17				106/3/1		106y 4/1 ash
36		36 mm				
50						
100						
150						

Silty clay, banded.
 Ash layer half-way
 through.

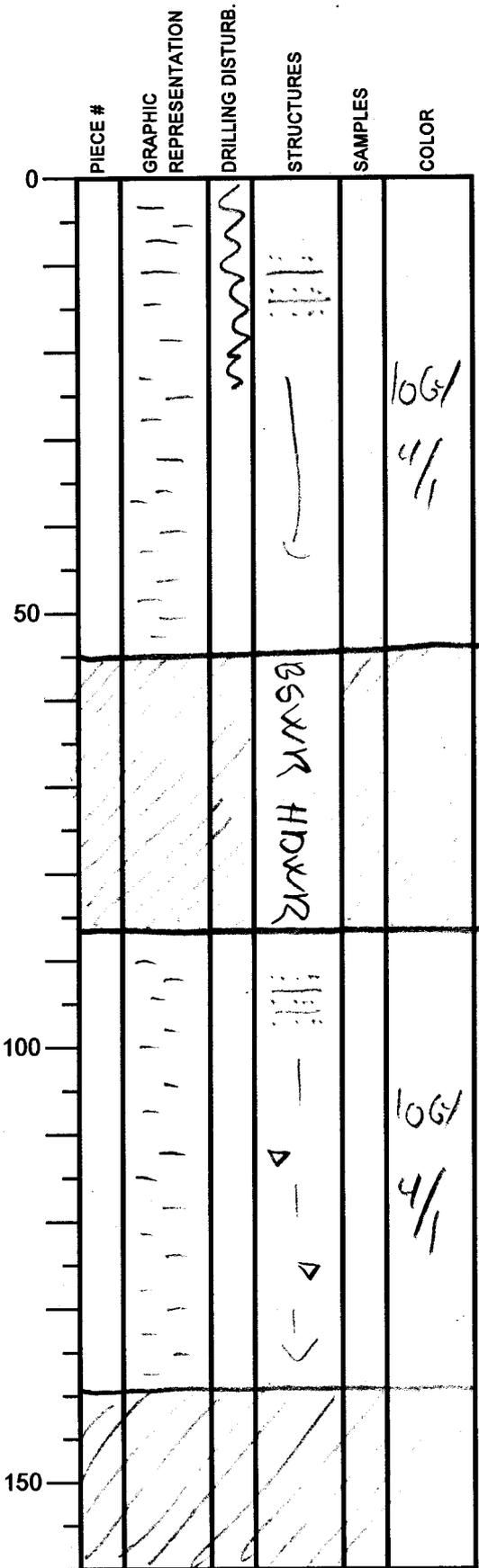
Integrated Ocean Drilling Program

Visual Core Description

NO. 382
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 10M
 SECTION: 1
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: *YKC*



Dark greenish gray clay
 1/2 color w/ 1/2 of
 greenish silty clay
 lamina

Outsized clasts of 112 and 125 cm

EOC = 139 cm

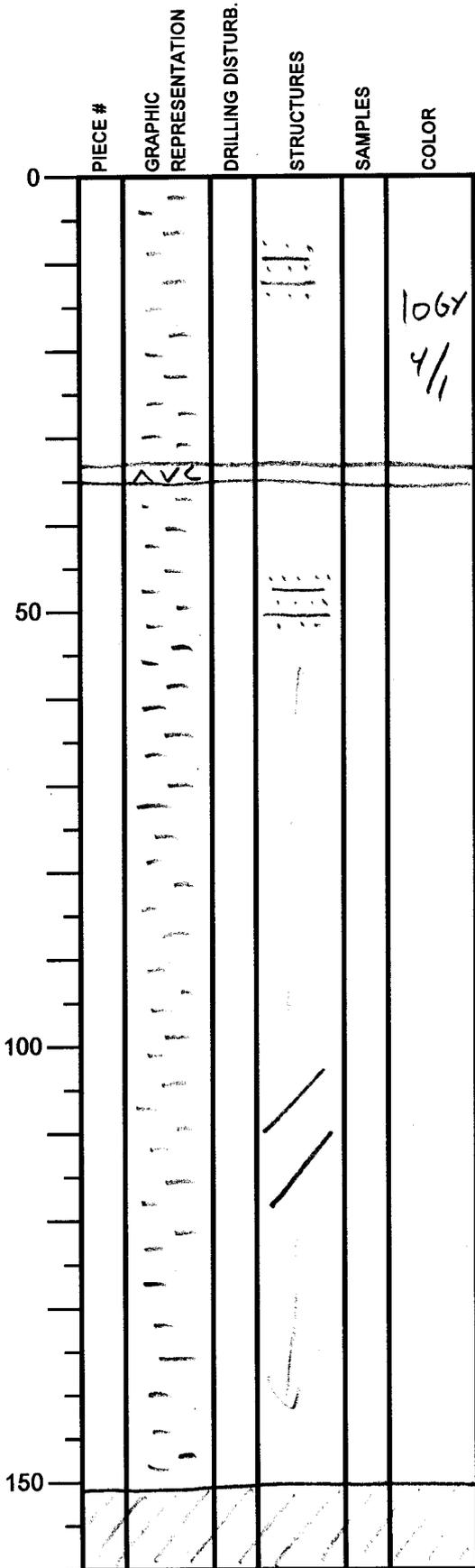
Integrated Ocean Drilling Program

Visual Core Description

NO. 383
 DATE: 2/2/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 10F
 SECTION: 2
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: *ye L.*



1067
4/11

Black ash layer

Dark greenish gray clay
 wavy color wobbly lines, patches of
 ash and some greenish
 silty clay laminae.
 Part of the section has been
 affected by faulting.

Fault
 Fault

EOC = 141 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 384
 DATE: 12/20/00
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 10 ft
 SECTION: 3
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
0-50	Vertical dashes		□		106Y -4/1
50-90	Vertical dashes with checkmarks		↑ F		106Y -4/1
90-145	Vertical dashes				106Y -4/1
145-150	Diagonal hatching				

SECTION DESCRIPTION

OBSERVER: J. L.

* Smear slide at 87cm

Black-dark greenish gray lamina

Dark greenish gray clay
 w/ color mottling, patches of ash and some greenish silty clay laminae.

Interbedded is a ~ 36cm thick ash layer showing cross-bedding and planar laminae in the lower part.

EOC = 134cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 385
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 106
 SECTION: 4
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: *fa L.*

Dark greenish gray clay
 ✓ color nothing at some
 greenish silty clay laminae.
 A shear zone is located
 at 102 - 114 cm.

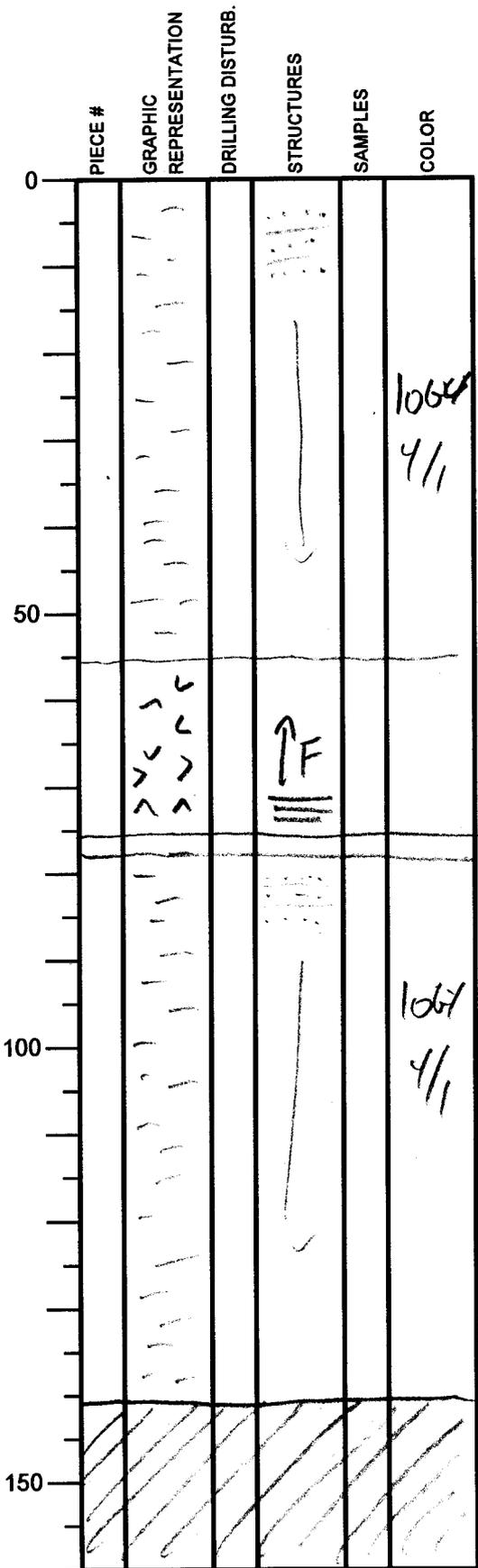
Shear zone 102 - 114 cm.

EOC = 119 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 386
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 10 H
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *jal.*

fining upward ash layer

Parallel lamination

Gray clay layer, homogeneous, sharp lower boundary

*Dark greenish gray clay
 w/ color mottling and some
 greenish silty clay laminae*

*An ash layer, fining upward,
 is located between 75-86 m depth.*

EOC = 140.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 387
 DATE: 23/12/2010
 EXP.: 337
 SITE/HOLE: C0011D
 CORE: 104t
 SECTION: 7
 TOP DEPTH (m CSF):

OBSERVER: *YEL*

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			COM COM ANWR		
50				1067 -4/11	
100					
150					

SECTION DESCRIPTION

Dark greenish gray clay
 w/ color mottling and some
 greenish silty clay lamina.
 Intertbedded is three zones
 including lamina and patches
 of ash

Zone including lamina and
 patches of ash

Zone including lamina and
 patches of ash

Zone including lamina and
 patches of ash

* Smear slide at 89cm

EOC = 191.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 388
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 10M
 SECTION: 8
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: *gal*

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						10G4 4/11
100						
150						

Dark greenish grey clay
 w/ color mottling and some
 greenish silty clay lamina.
 + patches of ash.

EOC = 116.5 m

Integrated Ocean Drilling Program

Visual Core Description

NO. 389
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 10 ft
 SECTION: CC
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
10					10GY
20					-4/11
30					
40					
45			PAL		
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: J. L.

Dark greenish gray clay
 w/ some color mottling,
 patches of ash and
 greenish silty clay laminae

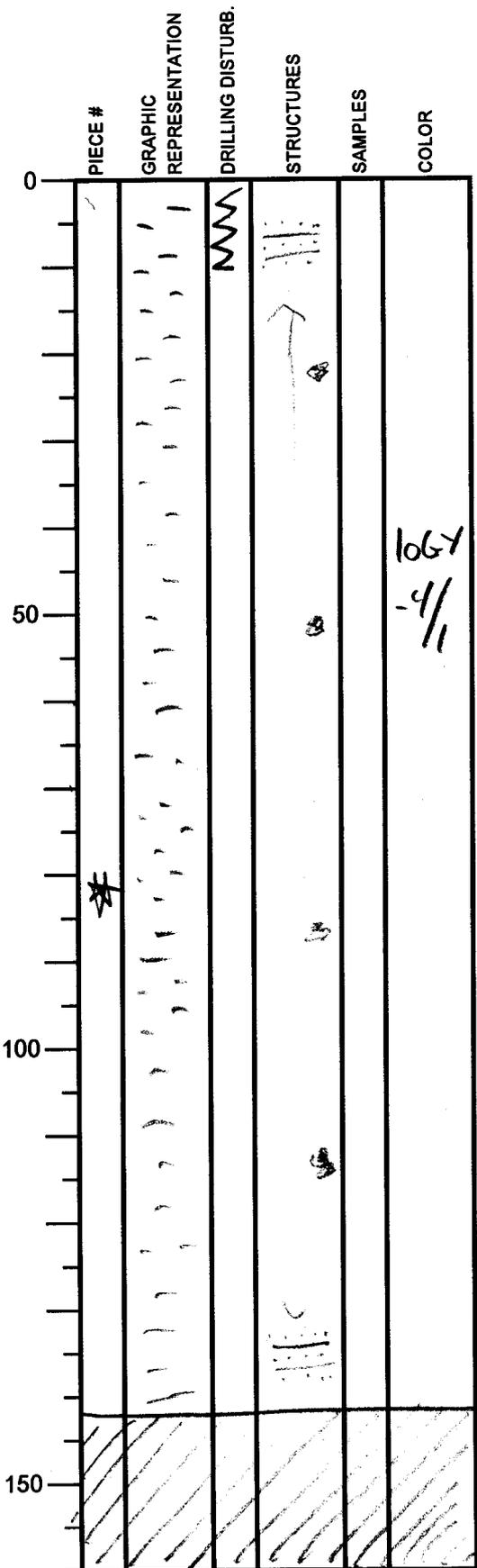
EOC = 41.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 390
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 11H
 SECTION: 1
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER:



Dark greenish gray clay
 w/ color mottling and
 greenish silty clay laminae

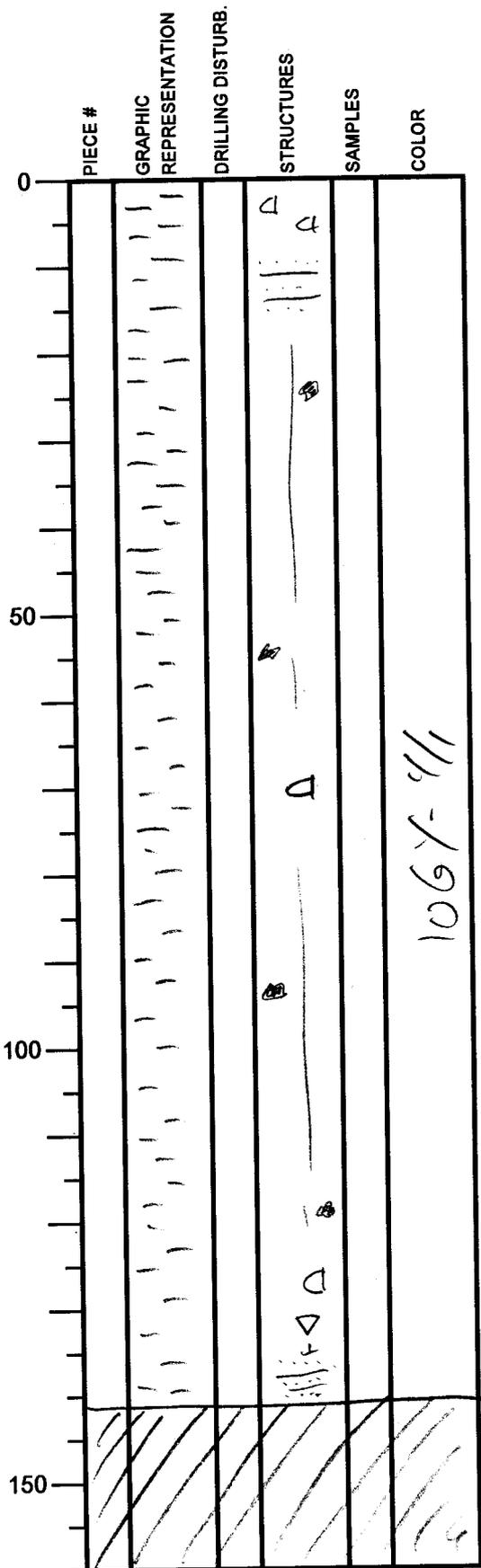
Smear slide at 82cm

EOC = 142 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 391
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 11 #
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

Patches of light gray ash

Dark greenish gray clay with color mottling and greenish silty clay lamina, → some may have been affected by faulting.

Patch of ash, black

Patch of black ash
 oversized clast

OBSERVER: J. L.

1067-111

EOC = 142 cm

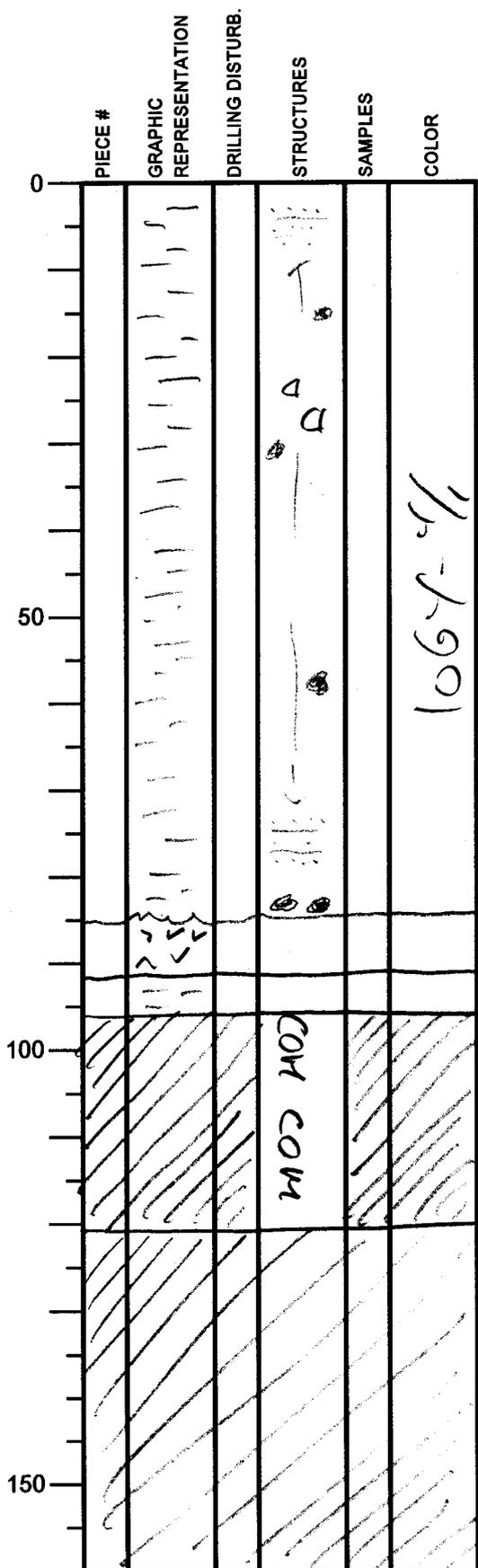
Integrated Ocean Drilling Program

Visual Core Description

NO. 392
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 116
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER:

fac



SECTION DESCRIPTION

Patches of light gray ash

Light gray - gray - green layer of ash

Dark greenish gray clay with color mottling and greenish silty clay lamina
 An ash layer at 85-92 cm depth, - color variations gray - light gray - green, profound bioturbation in the upper part.

EOC = 121 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 393
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 11 H
 SECTION: 4
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: J.C.

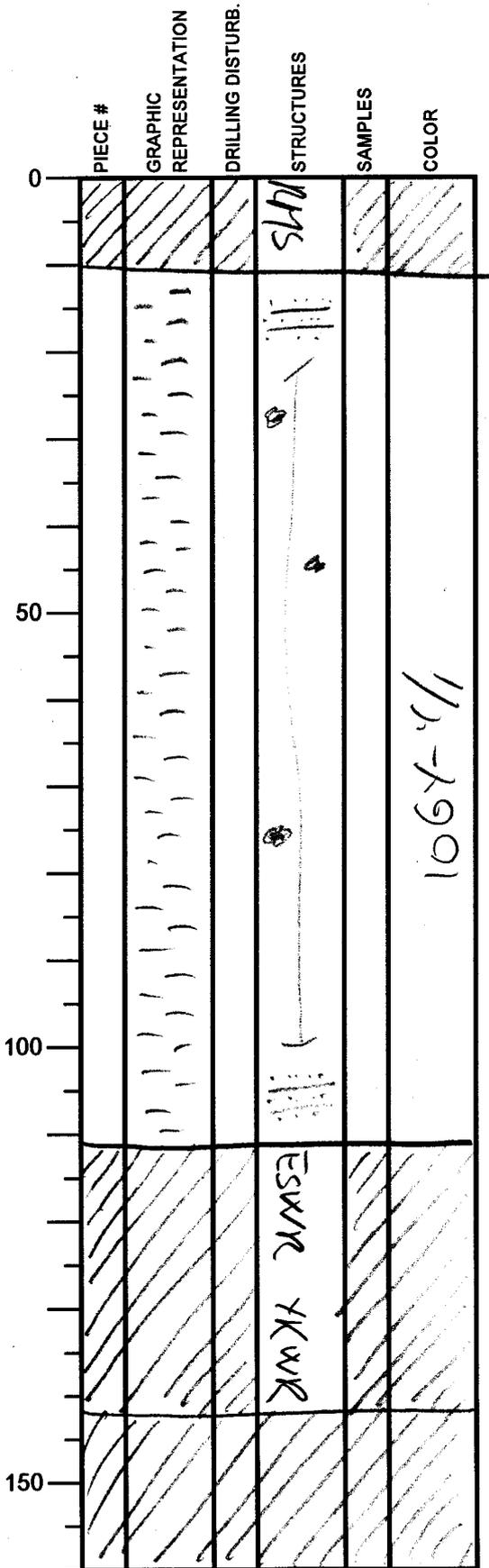
Dark greenish gray clay

EOC = 22 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 394
 DATE: 23/12/2002
 EXP.: 333
 SITE/HOLE: C0011 D
 CORE: 11 H
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

Jal

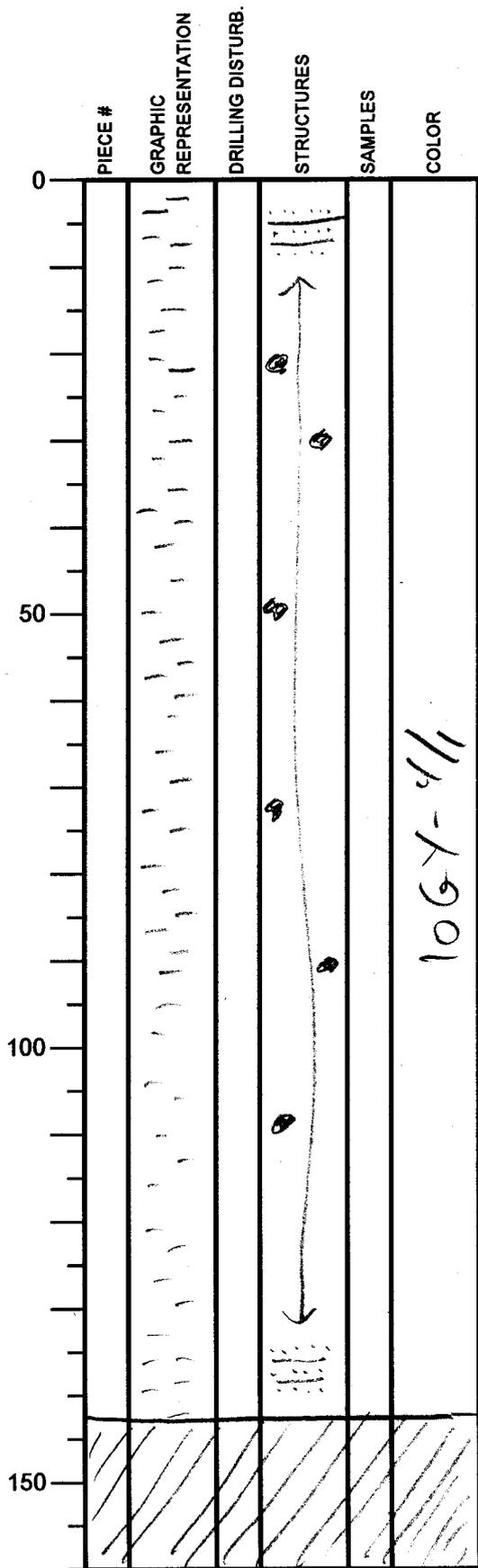
Dark greenish gray clay with mottling and grey laminae throughout.

EOC = 142 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 395
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: COO11 D
 CORE: 11 M
 SECTION: 7
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

J. L.

Dark greenish gray clay with mottling and green lamina throughout

EOC = 142.5 m

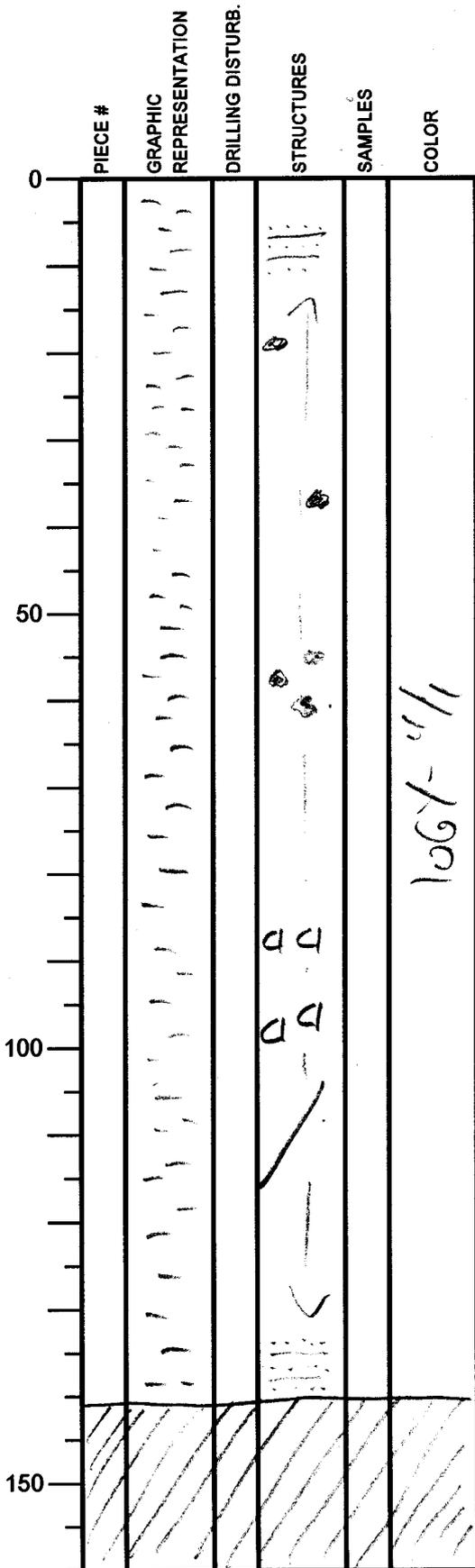
Integrated Ocean Drilling Program

Visual Core Description

NO. 396
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: COO11 D
 CORE: 11 H
 SECTION: 8
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: *Y. L.*



1067-11

Heavily waterbed

Patches of black ash.

Patches of light gray ash

Fault

Dark greenish gray clay with mottling and grey laminae throughout. Some levels comprising patches of ash is also seen.

EOC = 141 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 397
 DATE 3/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 11 A
 SECTION: 9
 TOP DEPTH (m CSF):

OBSERVER:

JCL

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				A ↓		
50		A V		↓		106X-11
100				VAD ↓		
150						

SECTION DESCRIPTION

Light gray - fine - gray (uppermost) ash layer.

Light gray - gray ash layer

Dark greenish gray clay with laminae and nodules throughout two ash layers.

EOC = 82 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 318
 DATE: 2/21/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 11 H
 SECTION: CC
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER:

J. L.

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

EOC ≈ 18cm

Integrated Ocean Drilling Program Visual Core Description

NO. 399
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C6011D
 CORE: 12H
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

Silty clay
 with ash layers
 (dark & green colored)

4/109y

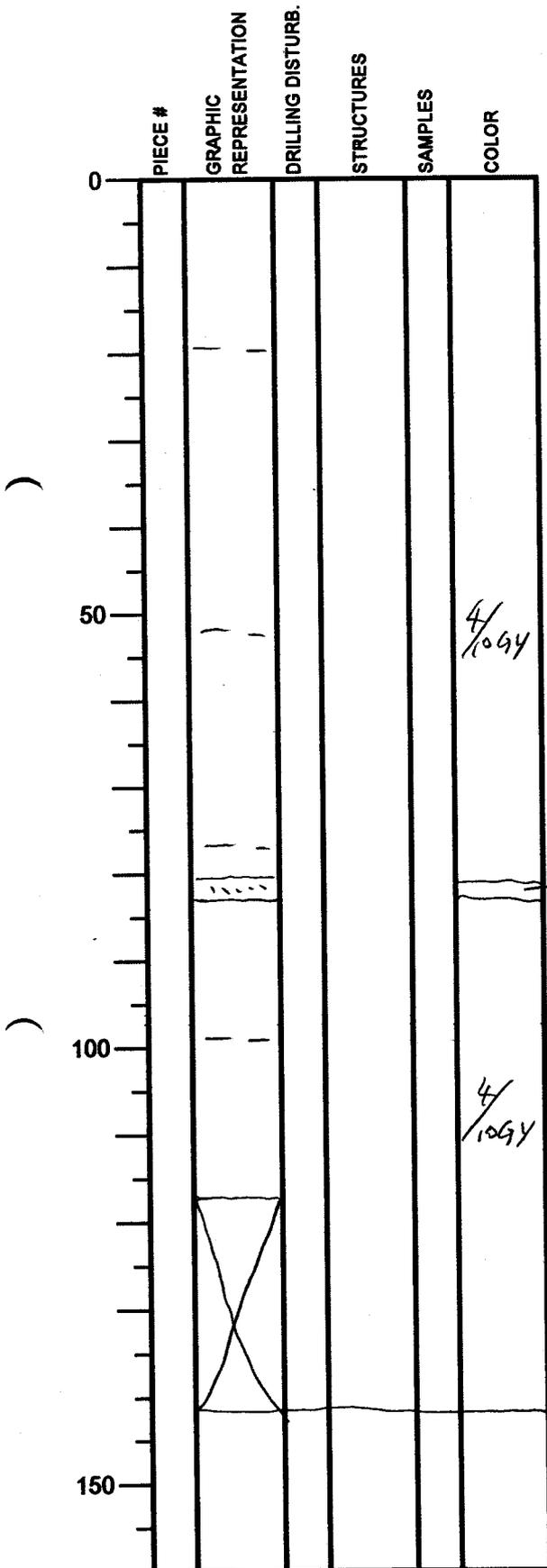
Integrated Ocean Drilling Program Visual Core Description

NO. 400
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 12H
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: S Gao

SECTION DESCRIPTION

The same as
 12H-01 section.
 An ash layer
 in 82-83 cm.



Integrated Ocean Drilling Program

Visual Core Description

NO. 401
 DATE: 23/2/2010
 EXP.: 332
 SITE/HOLE: C0011D
 CORE: 12H
 SECTION: D3
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: S Gas

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

Silty clay, with
 dark or green colored
 ash layers.

4/106y

Integrated Ocean Drilling Program Visual Core Description

NO. 402
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 12H
 SECTION: 04
 TOP DEPTH (m CSF):

OBSERVER: SGeo

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

SECTION DESCRIPTION

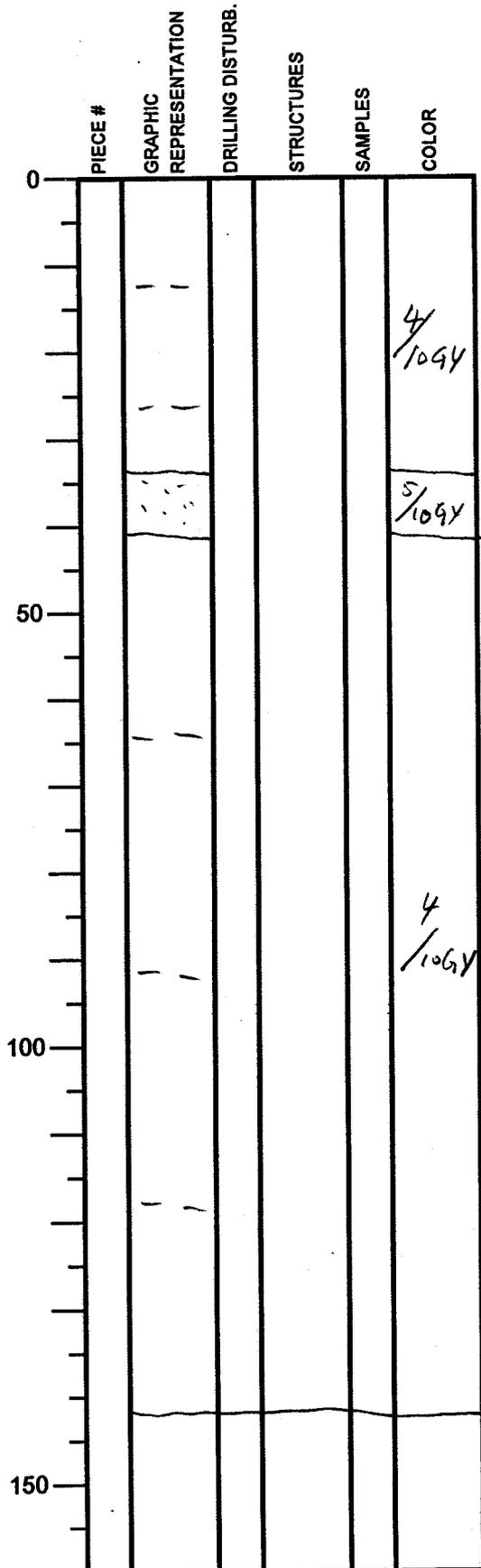
The same as
 12H-03 section

G/
 10G4

Integrated Ocean Drilling Program

Visual Core Description

NO. 403
 DATE: 2/12/2010
 EXP.: 332
 SITE/HOLE: C0011D
 CORE: 12H
 SECTION: 06
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

The same as
12H-04 section.

— ss — Light colored
 (39.5cm) ash sand

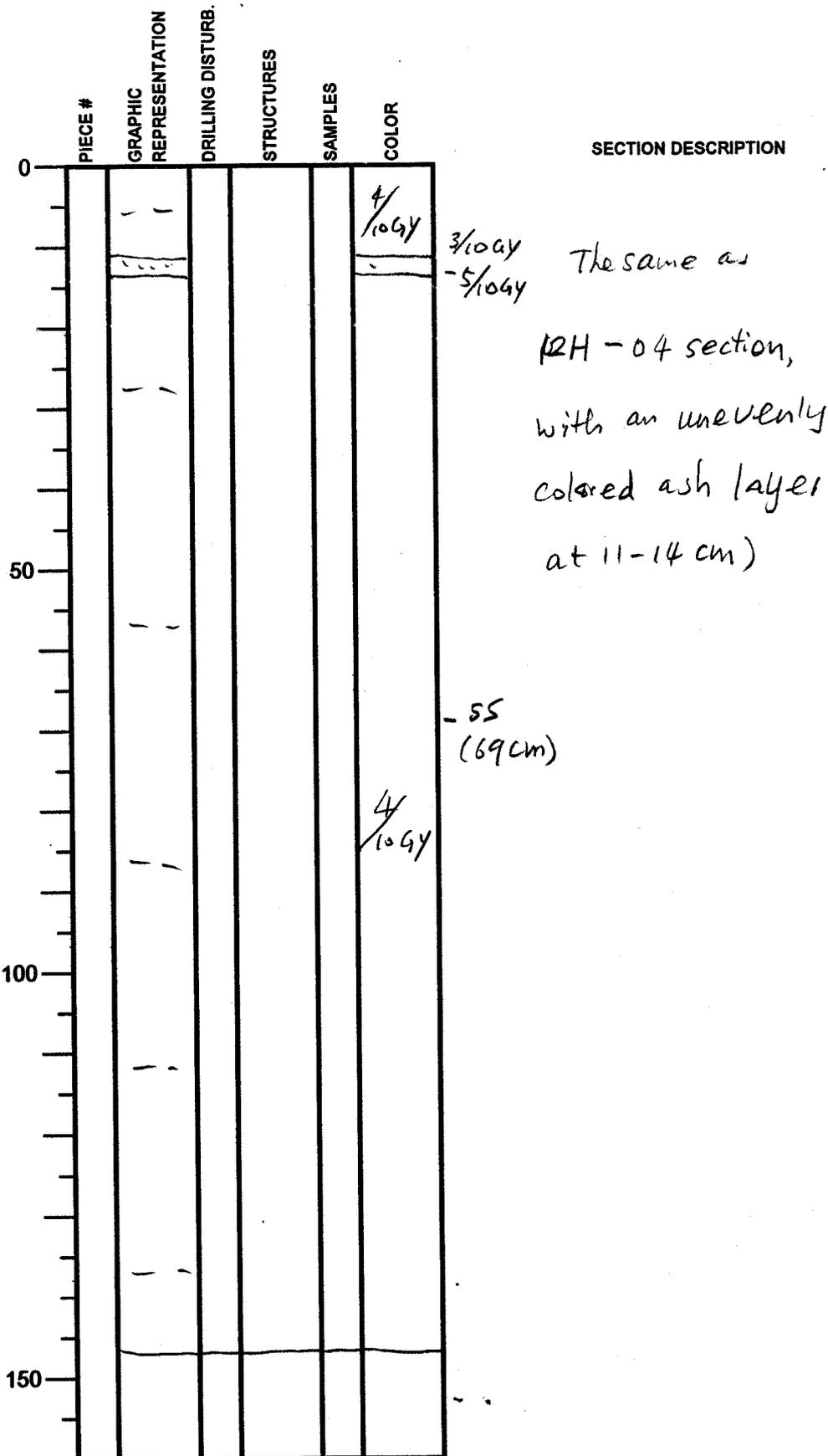
Silty clay, with
 dark or green colored
 ash layers and light
 colored ash clasts.

OBSERVER: SGAO

Integrated Ocean Drilling Program Visual Core Description

NO. 404
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 12H
 SECTION: 07
 TOP DEPTH (m CSF):

OBSERVER: S Gao

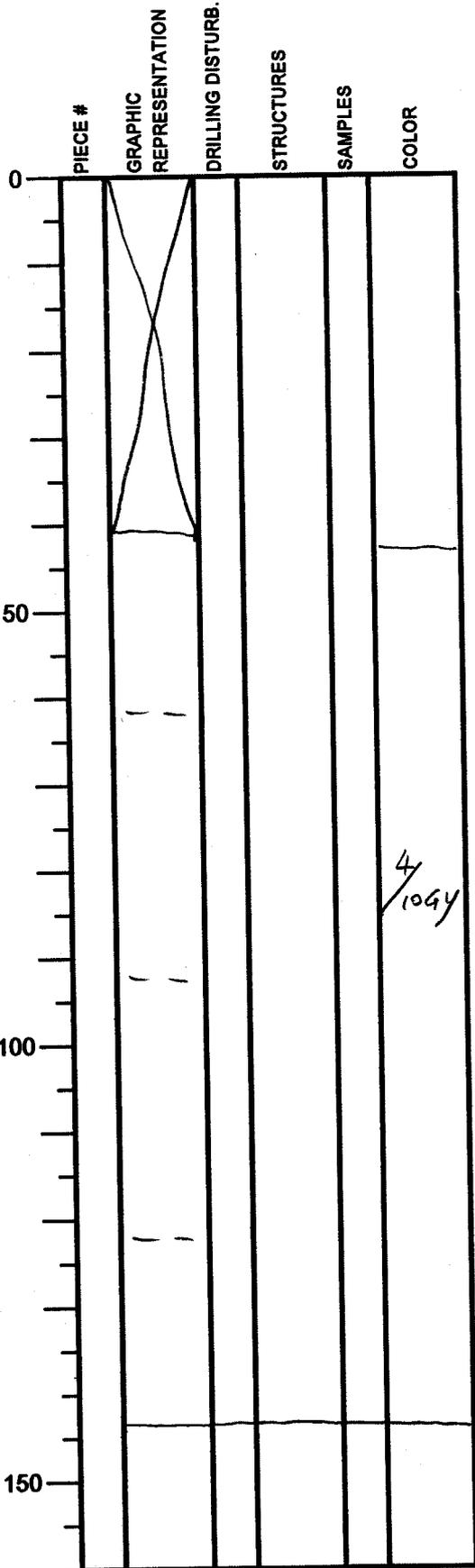


Integrated Ocean Drilling Program

Visual Core Description

NO. 405
 DATE: 23/12/2010
 EXP.: 332
 SITE/HOLE: C0011D
 CORE: 12H
 SECTION: 08
 TOP DEPTH (m CSF):

OBSERVER: S Gas



SECTION DESCRIPTION

The same as
 12H-04 section

Integrated Ocean Drilling Program

Visual Core Description

NO. 406
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 12H
 SECTION: CC-AA
 TOP DEPTH (m CSF):

OBSERVER: S Gao

SECTION DESCRIPTION

Silty clay.
Heavily disturbed
during drilling.

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

Integrated Ocean Drilling Program

Visual Core Description

NO. 407
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 13H
 SECTION: 01
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

Silty clay, with
 dark or green ash
 layers/clasts.

4/1064

Integrated Ocean Drilling Program

Visual Core Description

NO. 408
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: S Gao

SECTION DESCRIPTION

The same as
 13H-01 section.

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						
100					4/ 10G1	
150						

Integrated Ocean Drilling Program

Visual Core Description

NO. 409
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: 03
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

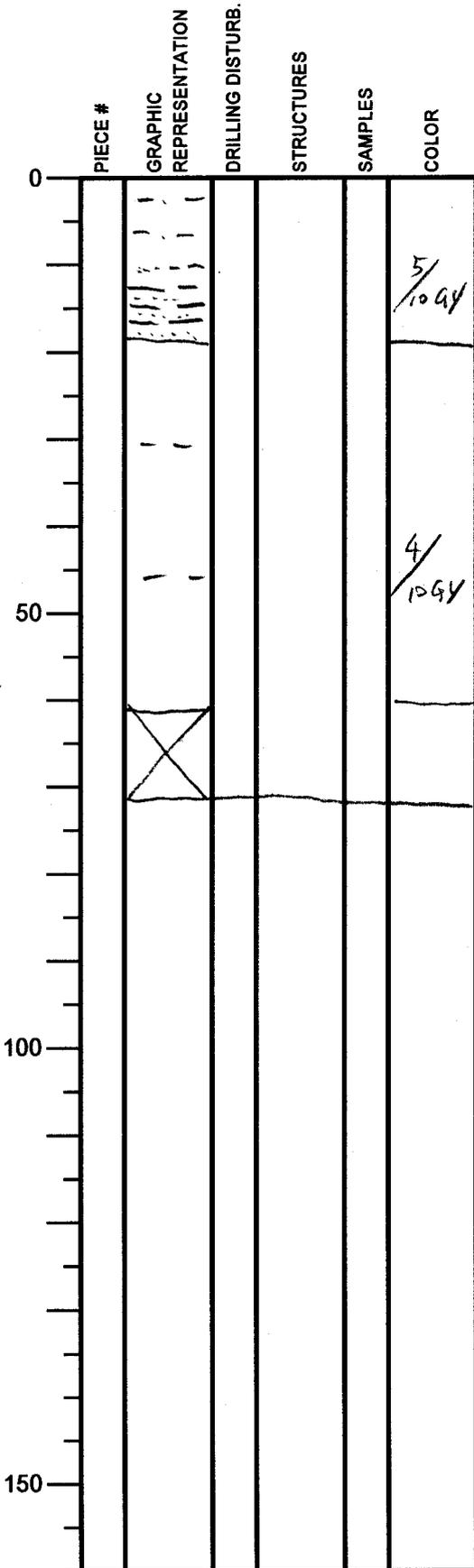
The same as
13H-01 section

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 410
 DATE: 3/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 13H
 SECTION: 04
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

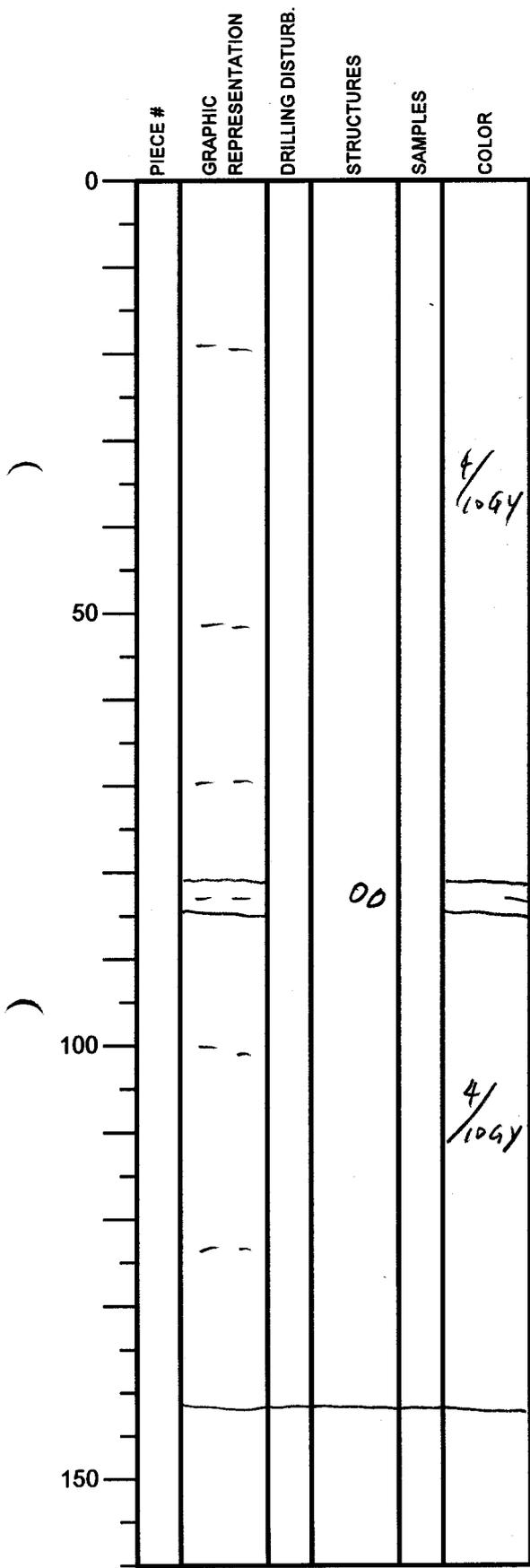
-SS Light colored silt layers (15cm) and they are interlayered with ash sand layers in the 11.5 ~ 18cm
 OBSERVER: S Gao
 silty clay, the same as 13H-01 section.

Integrated Ocean Drilling Program

Visual Core Description

NO. 411
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 13H
 SECTION: 06
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

The same as
 13H-01 section,
 except that the
 top part (0-24cm)
 is disturbed, and
 large size ash
 clasts (dark colored)
 occur at 81-85 cm
 where the background
 material is light
 colored.

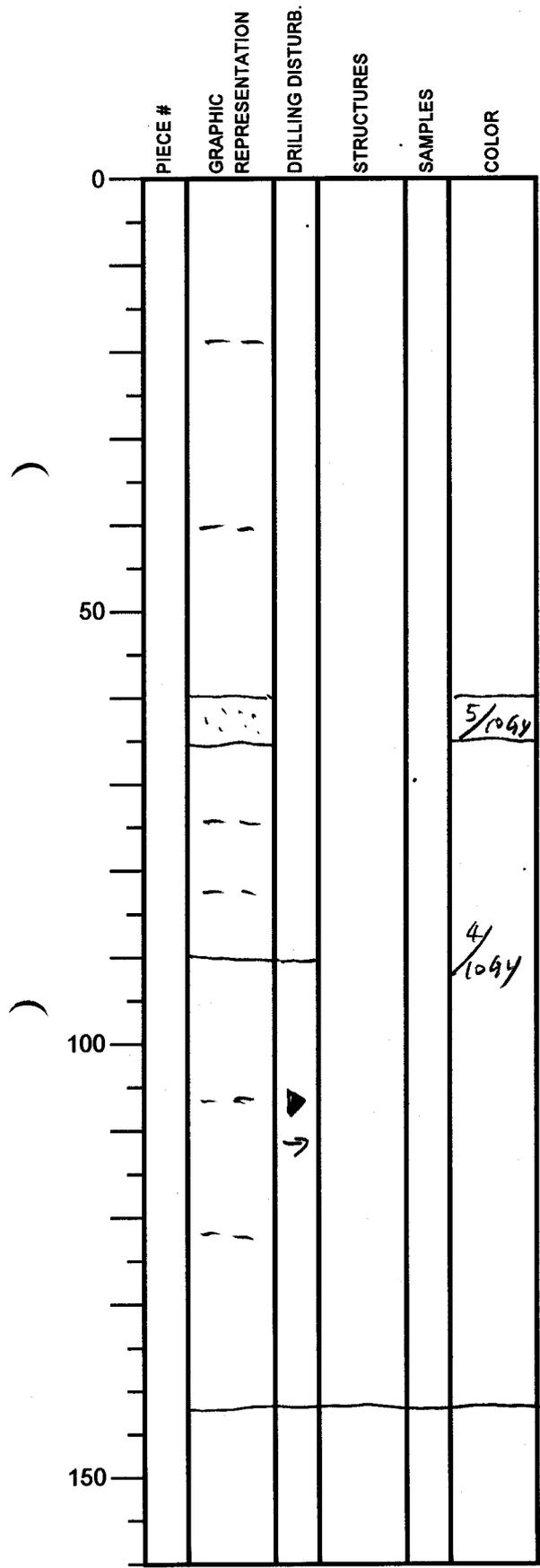
Integrated Ocean Drilling Program

Visual Core Description

NO. 412
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 13H
 SECTION: 07
 TOP DEPTH (m CSF):

OBSERVER: S Gao

SECTION DESCRIPTION



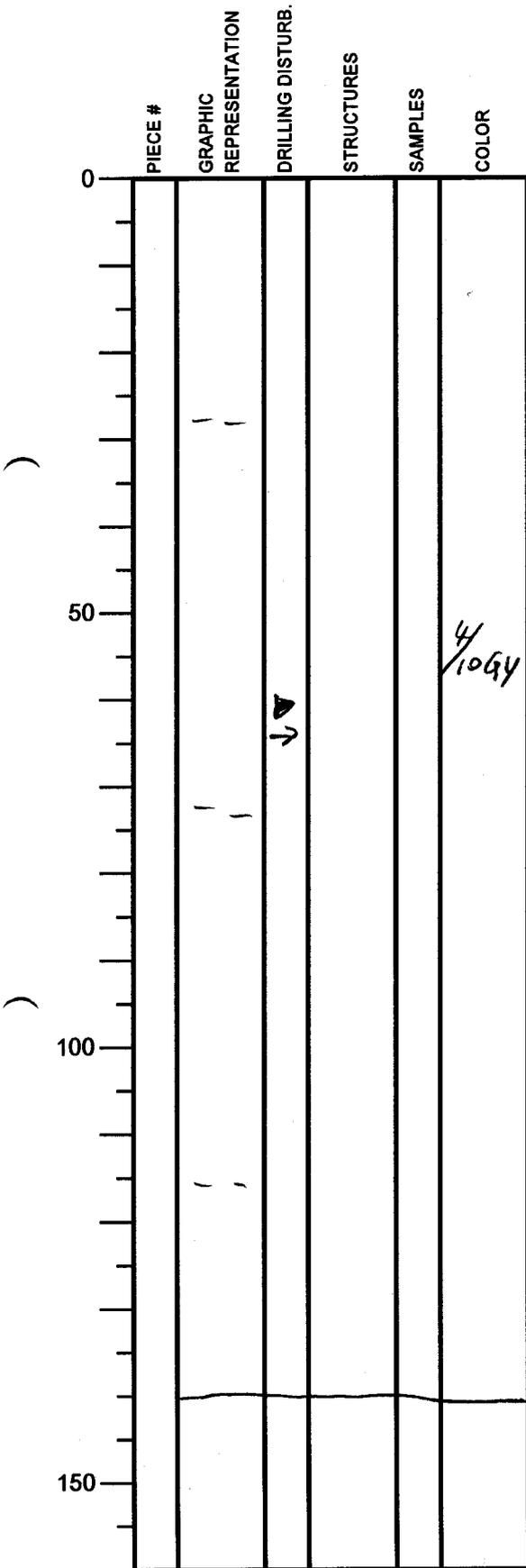
The same as
 13H-01 Section;
 a light colored
 ash layer at
 60-65.5 cm

Below 90 cm the
 core appears to
 have been disturbed
 by drilling.

Integrated Ocean Drilling Program

Visual Core Description

NO. 413
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 13H
 SECTION: 08
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: S Gao

Silty clay with
 ash clasts (size
 up to 1.3 cm). The
 strata disturbed
 by drilling.

Integrated Ocean Drilling Program

Visual Core Description

NO. 414
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 13H
 SECTION: 09
 TOP DEPTH (m CSF):

OBSERVER: S Gao

SECTION DESCRIPTION

*The same as
 13H-08 section.*

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50			▲ ↓			4/ 1064
100						
150						

Integrated Ocean Drilling Program Visual Core Description

NO. 415
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 13H
 SECTION: CC-AA
 TOP DEPTH (m CSF):

OBSERVER: S Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			▼ ↓			4/ 1094
50		X				
100						
150						

SECTION DESCRIPTION

The same as
134-09.

Integrated Ocean Drilling Program Visual Core Description

NO. 416
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: COO110
 CORE: 14H
 SECTION: 01
 TOP DEPTH (m CSF):

OBSERVER: T. ALVES

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						106/4/1
25	21	[Dotted pattern]			*	N7
50		[Vertical lines]				
100		[Vertical lines]				106/ 4/1
150		[Vertical lines]				

SECTION DESCRIPTION

SS = 11cm (ash)

Hard, compacted clay.
 Homogeneous. Mottled

Integrated Ocean Drilling Program

Visual Core Description

NO. 417
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 12H
 SECTION: 02
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

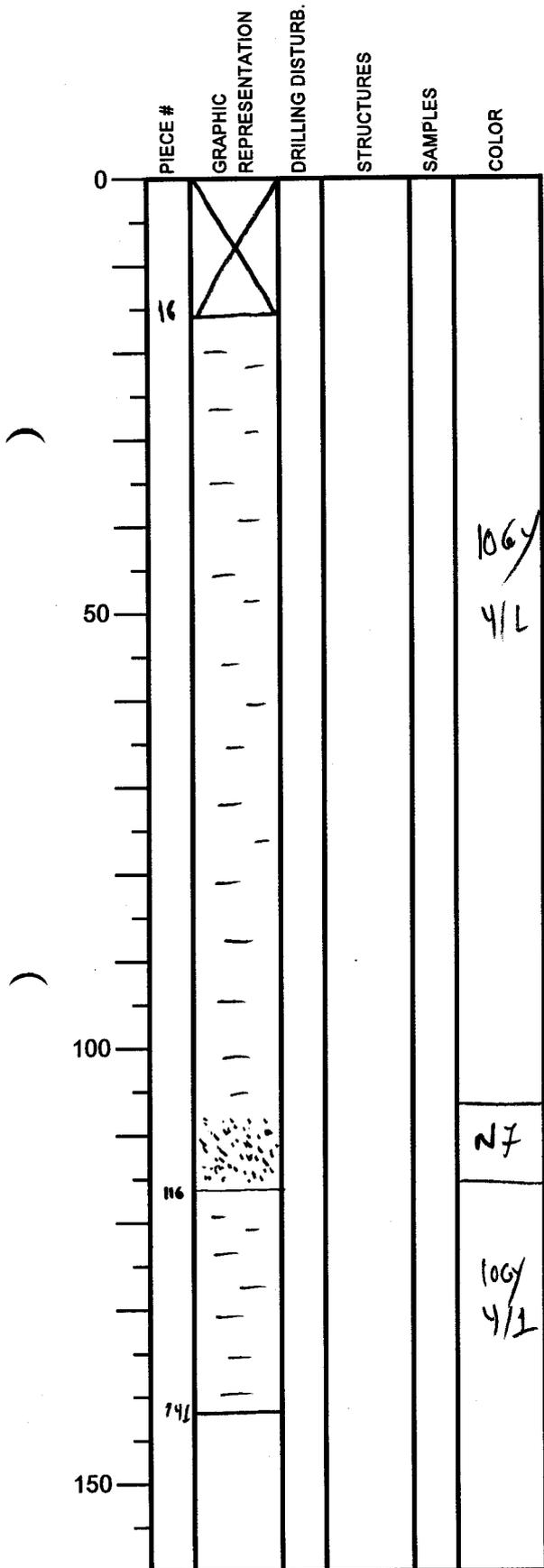
OBSERVER:

Hard clay. Homogeneous
 mottled.
 Some laminae to volcanic ash

Integrated Ocean Drilling Program Visual Core Description

NO. 418
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C00119
 CORE: 19H
 SECTION: 03
 TOP DEPTH (m CSF):

OBSERVER:



SECTION DESCRIPTION

Mud (blay) - mottled
 some detrit + bleached ash

Integrated Ocean Drilling Program Visual Core Description

NO. 419
 DATE 23/12/2010
 EXP.: 333
 SITE/HOLE: COO10
 CORE: 14H
 SECTION: 04
 TOP DEPTH (m CSF):

OBSERVER: J. AWES

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						10G7 Y/L
100					*	SS = 80cm
120						
150						

SECTION DESCRIPTION

Clay, mottled.
 some laminar of volcanic ash.

Integrated Ocean Drilling Program

Visual Core Description

NO. 420
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 14H
 SECTION: 06
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		-		↑ F		4/1
50		-				6/1 5/1
100		-				4/1
150		-				

SECTION DESCRIPTION

Silty clay at the top, and light colored

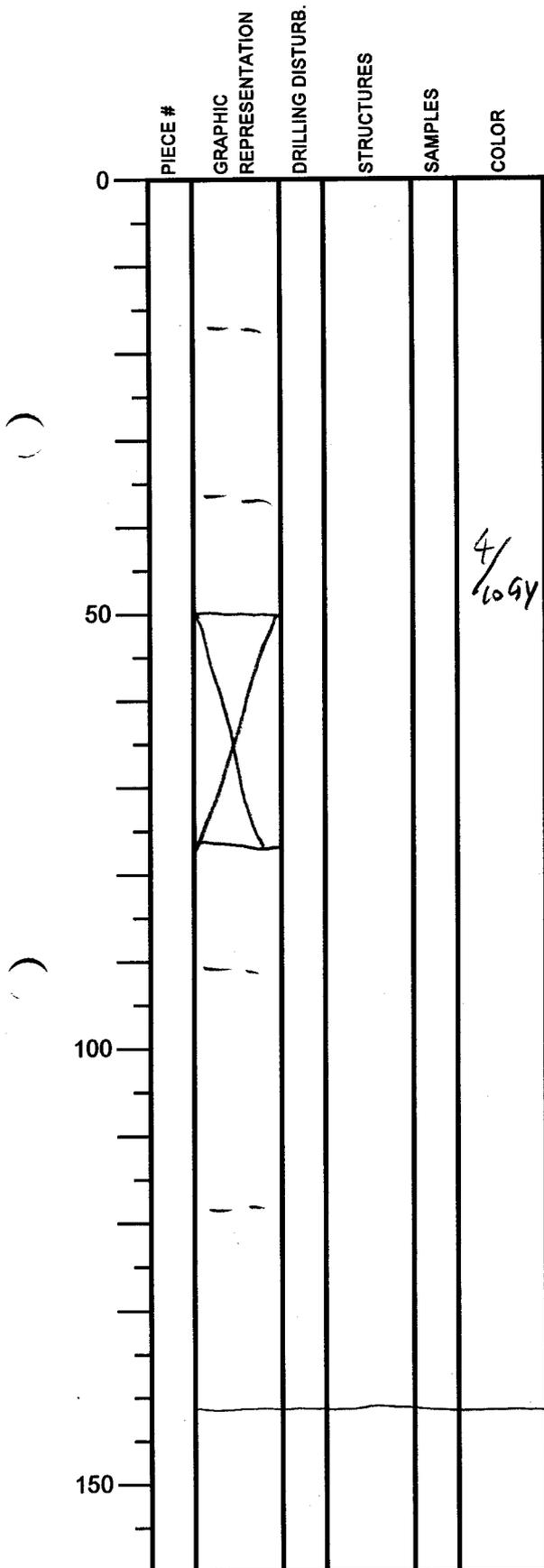
Silty clay, with Ash layers (in light or dark color)

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 421
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: 07
 TOP DEPTH (m CSF):



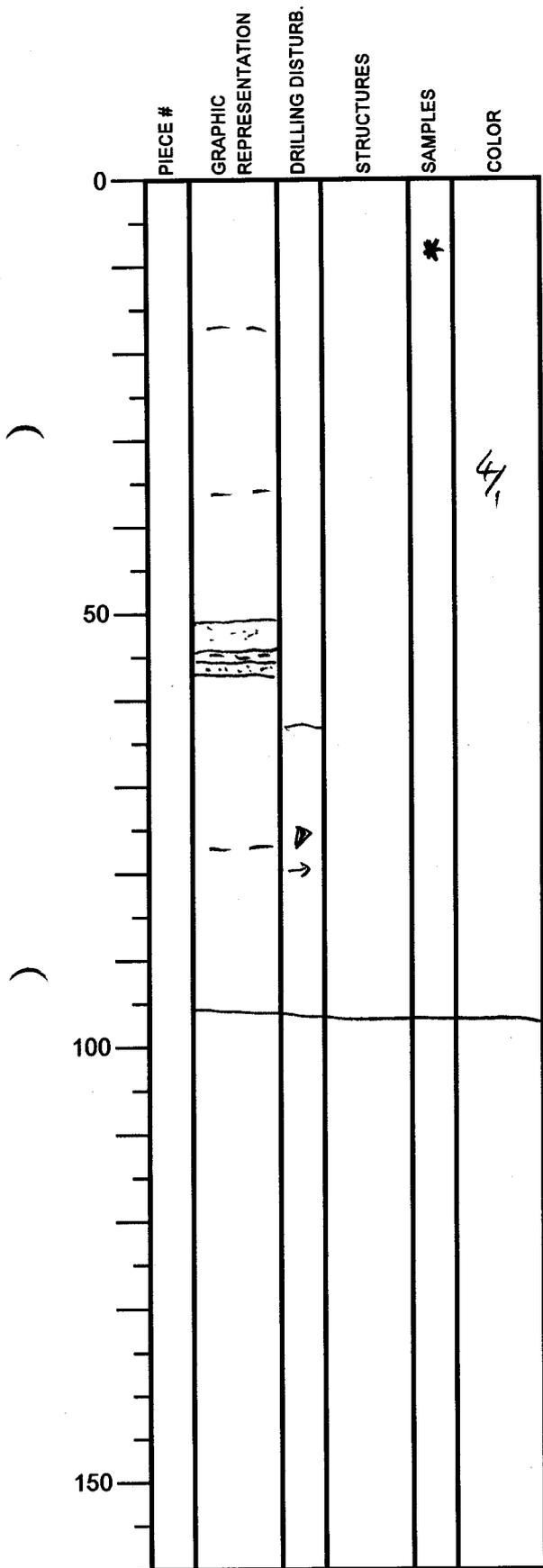
SECTION DESCRIPTION

Silty clay, with
 ash layers and
 clasts.

OBSERVER:

Integrated Ocean Drilling Program Visual Core Description

NO. 422
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 14H
 SECTION: 08
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: S Gao

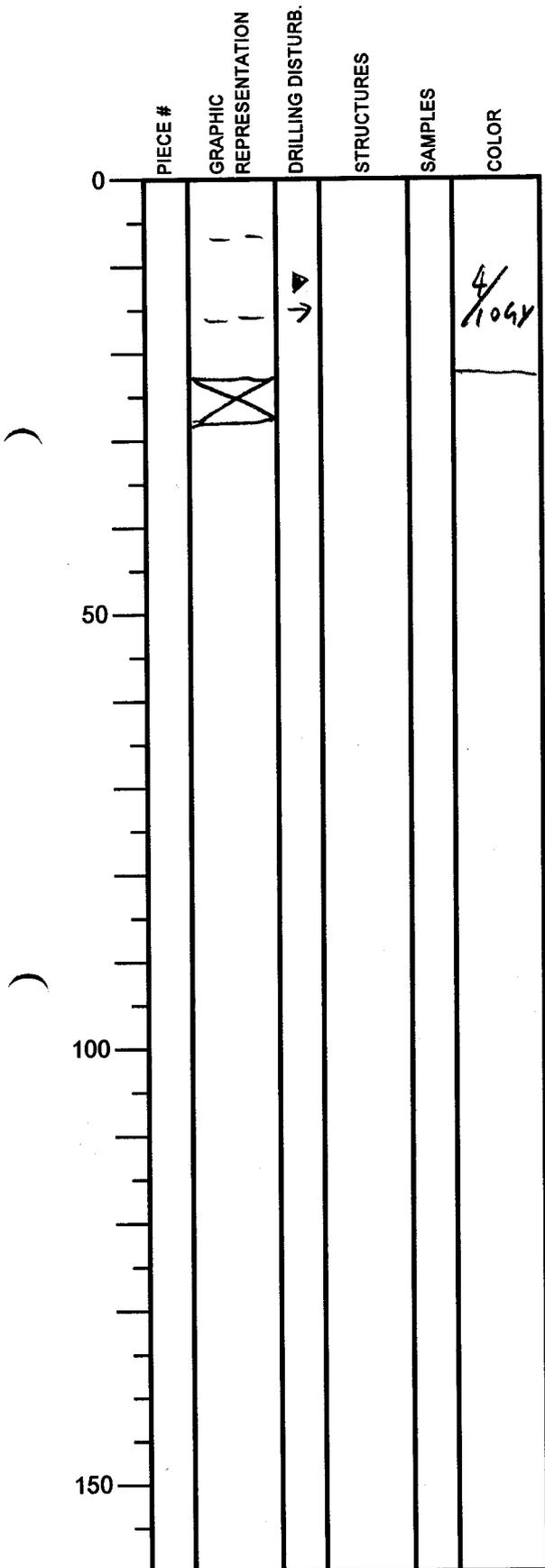
SS=8cm Silty clay, with
 light or dark colored
 ash layers (the thickest
 one being at 51.5-54cm)

Below about 63cm,
 disturbed by drilling.

Integrated Ocean Drilling Program Visual Core Description

NO. 423
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 14H
 SECTION: CC-AA
 TOP DEPTH (m CSF):

OBSERVER: S Gas



SECTION DESCRIPTION

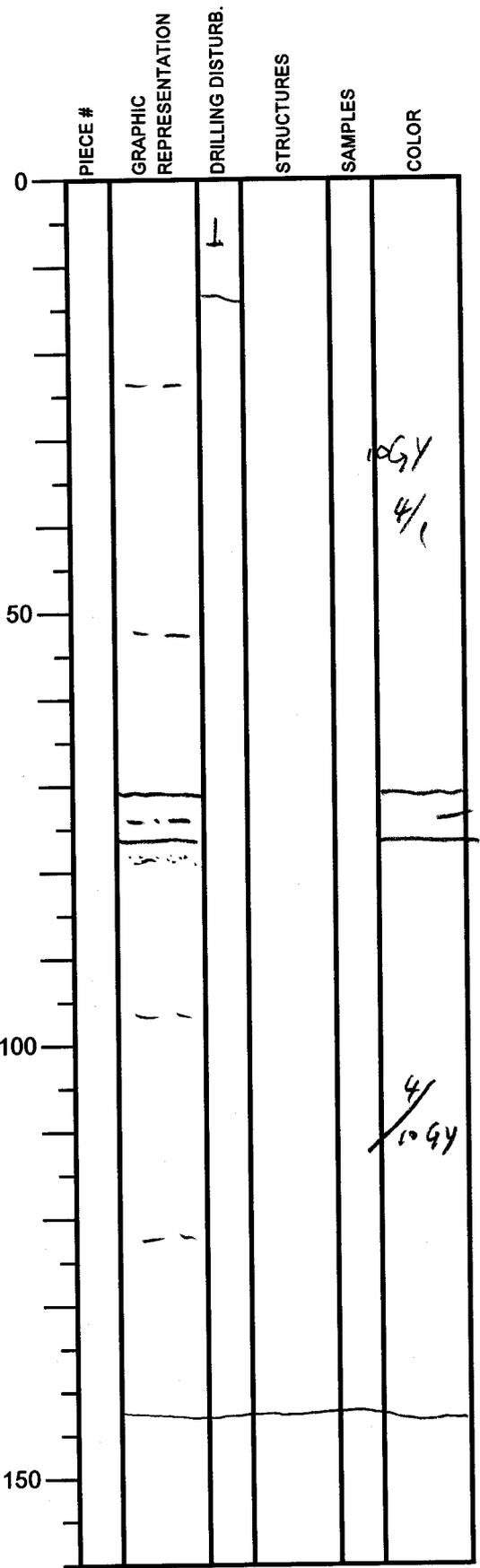
Silty clay.

Integrated Ocean Drilling Program

Visual Core Description

NO. 424
 DATE: 23/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 15H
 SECTION: 01
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

Silty clay, with
 ash layers
 (a light-colored
 layer at 77.5-78
 cm). A silt layer
 occurs 71-76cm

Integrated Ocean Drilling Program Visual Core Description

NO. 425
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE: 15H
 SECTION: 02
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						4 / 10GY
100					*	SS = 107 um
150						

SECTION DESCRIPTION

Silty clay with
 ash layers (thin)
 and clasts.

OBSERVER:

Integrated Ocean Drilling Program Visual Core Description

NO. 426
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: 03
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as
 15H-02 section.

OBSERVER:

4/
 1061

Integrated Ocean Drilling Program

Visual Core Description

NO. 427
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE: 15H
 SECTION: 05
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER:

The same as
 15H-02 section.
 A large volcano
 clast (0.5cm in
 diameter at 74cm)

4
 /
 106Y

Integrated Ocean Drilling Program Visual Core Description

NO. 428
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: 06
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						4/106Y
100				↑ F	*	5/106Y
150						

SECTION DESCRIPTION

The same as 15H-02, except a silt layer occurs at 89-94 cm, with a fining upward trend.

OBSERVER:

Integrated Ocean Drilling Program

Visual Core Description

NO. 429
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: 07
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as
 15H-02 section.

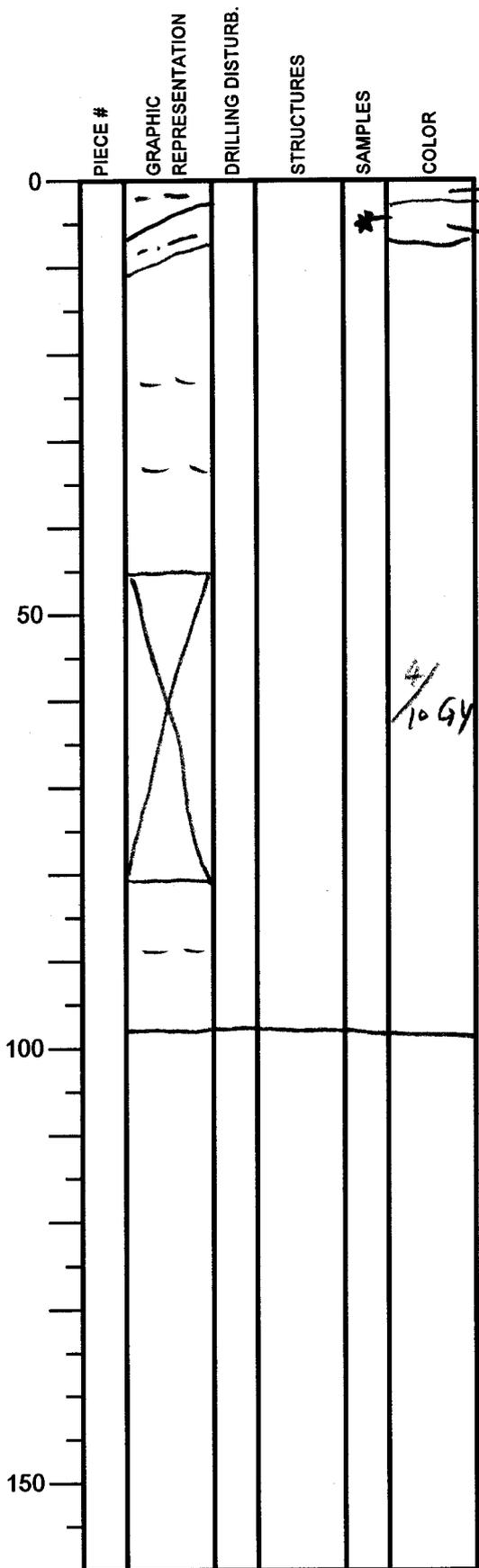
OBSERVER:

Integrated Ocean Drilling Program

Visual Core Description

NO. 430
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE: 154
 SECTION: 08
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

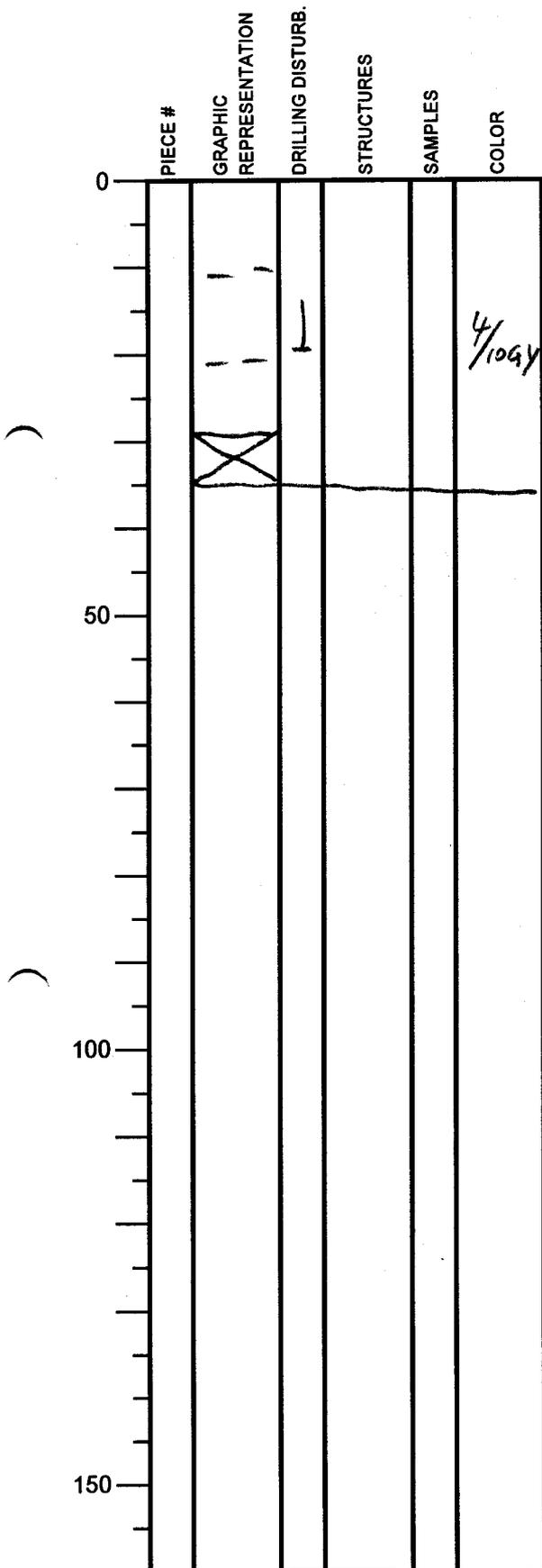
The same as
 Section 15H-02,
 but there is a
 dark-colored as
 layer in 7-9 cm.

Integrated Ocean Drilling Program

Visual Core Description

NO. 431
 DATE: / / 20
 EXP.:
 SITE/HOLE:
 CORE:
 SECTION: CC-AA
 TOP DEPTH (m CSF):

OBSERVER:



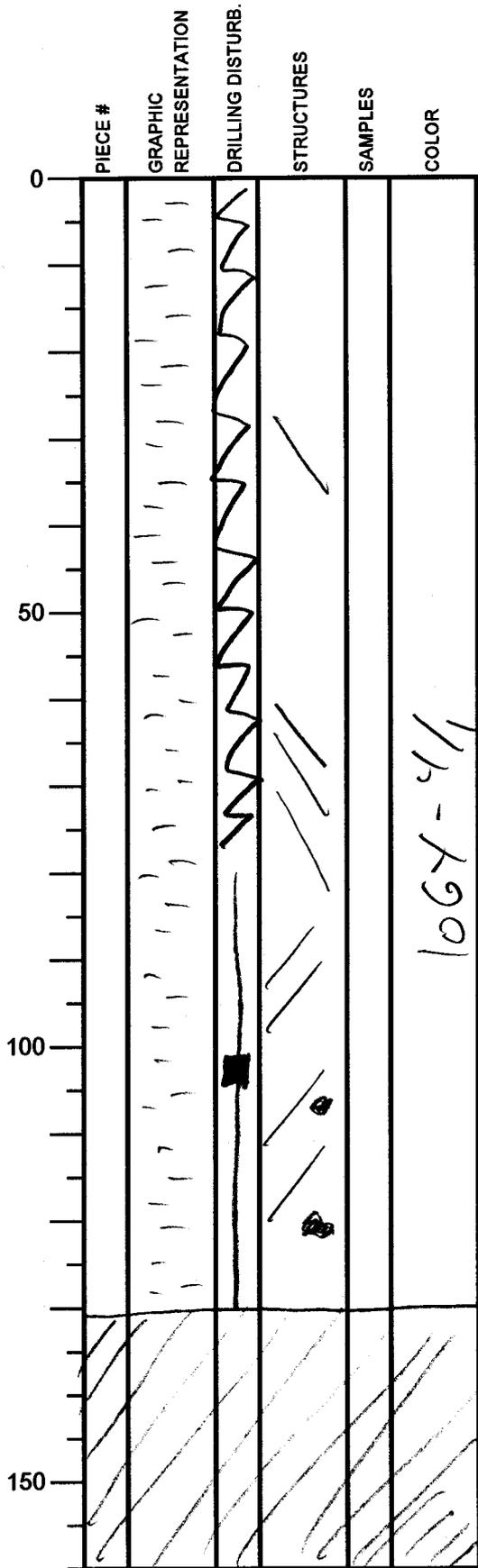
SECTION DESCRIPTION

The same as
15H-02 section.

Integrated Ocean Drilling Program

Visual Core Description

NO. 432
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 16H
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

YCL

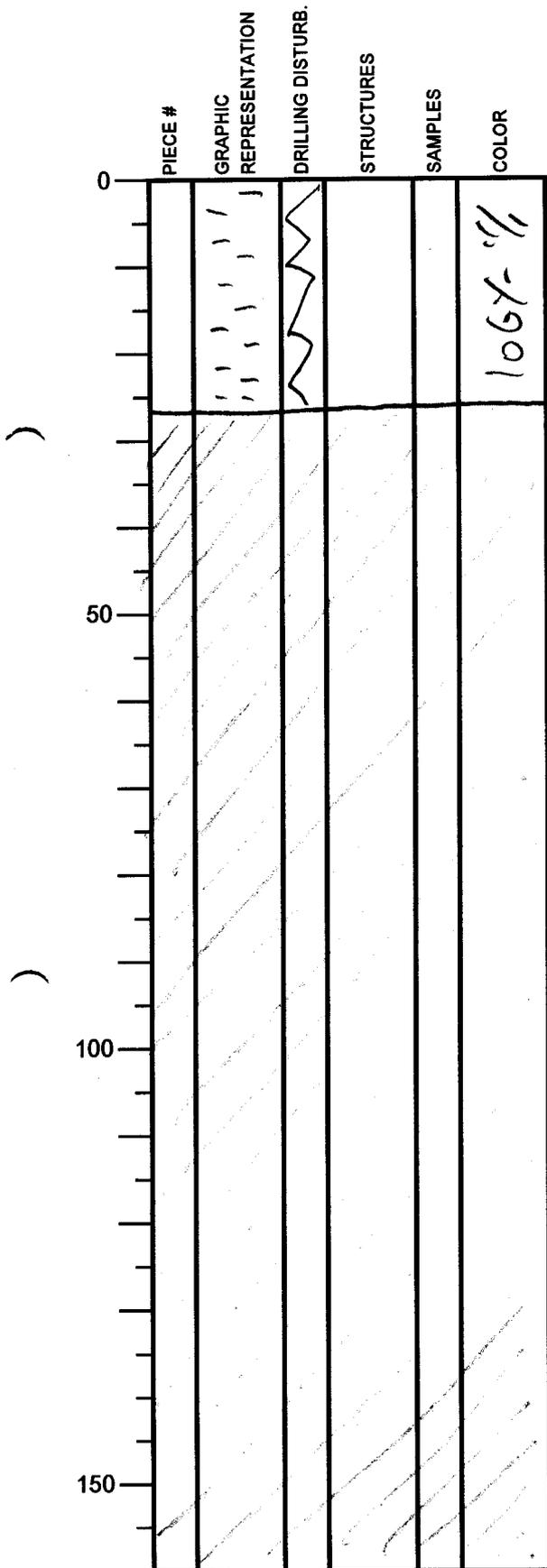
Moderately - heavily disturbed
 dark greenish gray clay
 with some color mottling
 - and faulting (normal
 faults)

EOC = 130.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 433
 DATE: 28/12/2010
 EXP.: 233
 SITE/HOLE: C00110
 CORE: 16 H
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

JCL

Same as above

EOC = 27CL

Integrated Ocean Drilling Program

Visual Core Description

NO. 434
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 16H
 SECTION: 3
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: *YCL*

Dark greenish gray hemipelagic clay with some color mottling and bedding

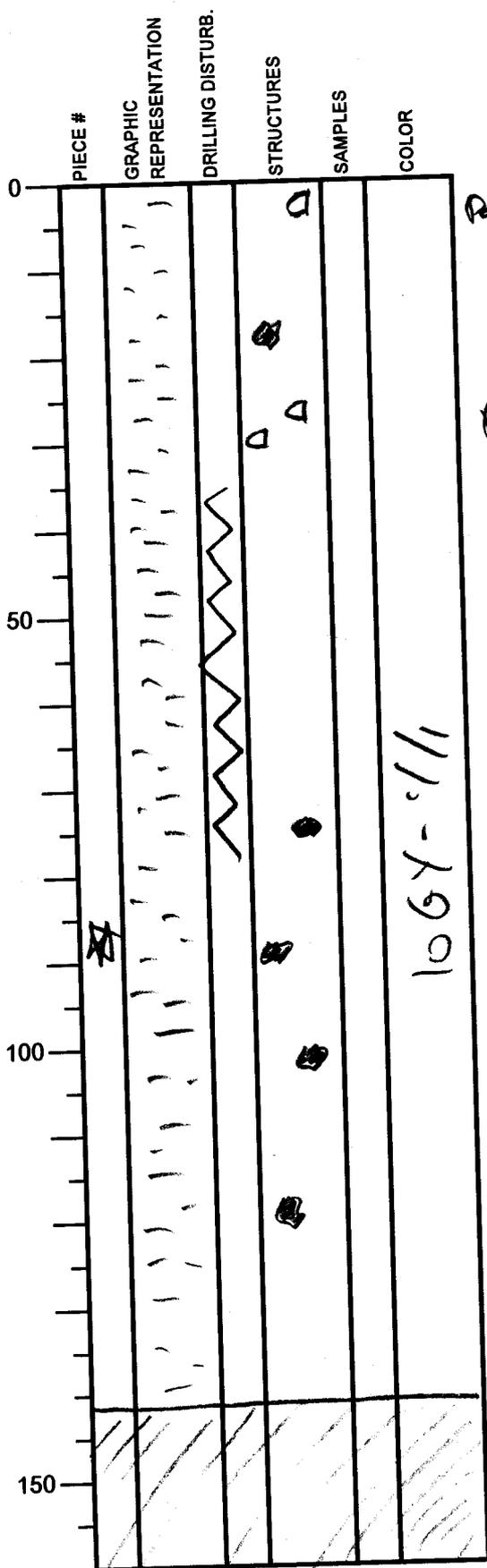
Smear slide at 8cm

EOC = 100.5cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 436
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 16 H
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

Patch of black ash

Patches of light gray ash

Dark greenish gray clay with some color mottling, patches of ash.

Part of the section is heavily disturbed.

* Smear slide at 87cm

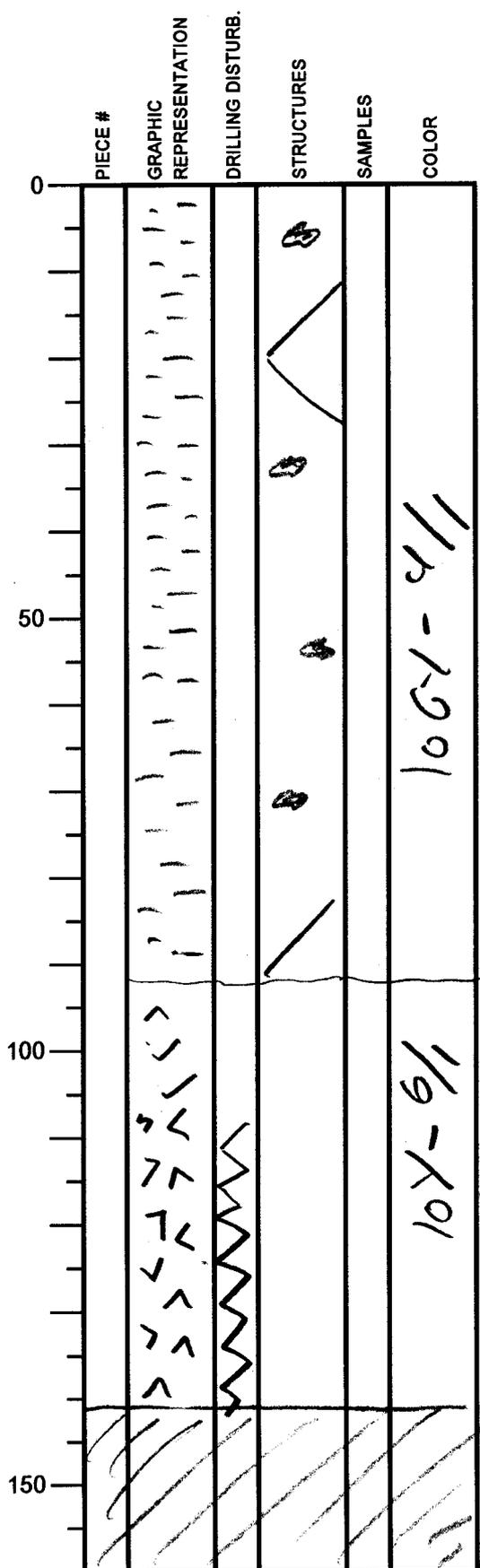
OBSERVER: JAL

EOC = 111.5

Integrated Ocean Drilling Program

Visual Core Description

NO. 137
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 16H
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: YAL.

Dark greenish gray clay with some color mottling, beneath is a light gray ash layer, possibly deformed by inflow.

Light gray ash layer

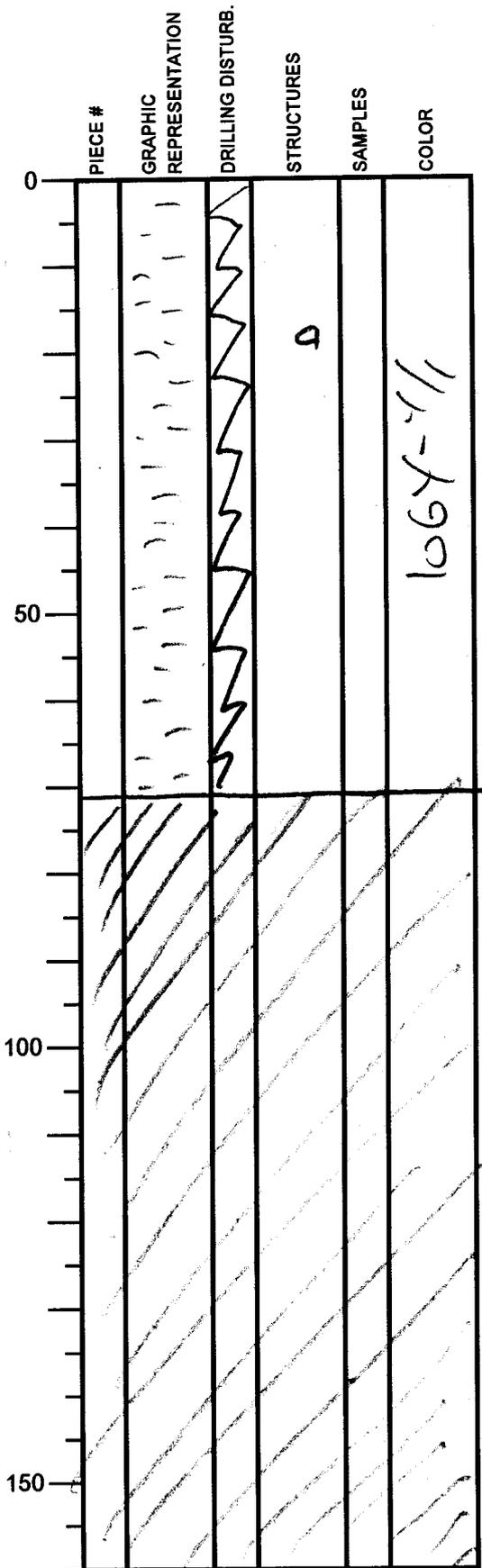
Inflow

EA = 141.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 438
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: COO11 D
 CORE: 1614
 SECTION: 7
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

Jack

*patch of black ash
 inflow*

Same as above

EOC = 81m

Integrated Ocean Drilling Program Visual Core Description

NO. 439
 DATE: 24/12/2000
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 16
 SECTION: CC
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: JCL

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			~ ~ ~ ~ ~			10GY-11/1
				PAL		
50						
100						
150						

inflow

EOC = 41.50

Integrated Ocean Drilling Program

Visual Core Description

NO. 440
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 17M
 SECTION: 1
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

Patches of ash

OBSERVER:

JCL

106Y-4/1

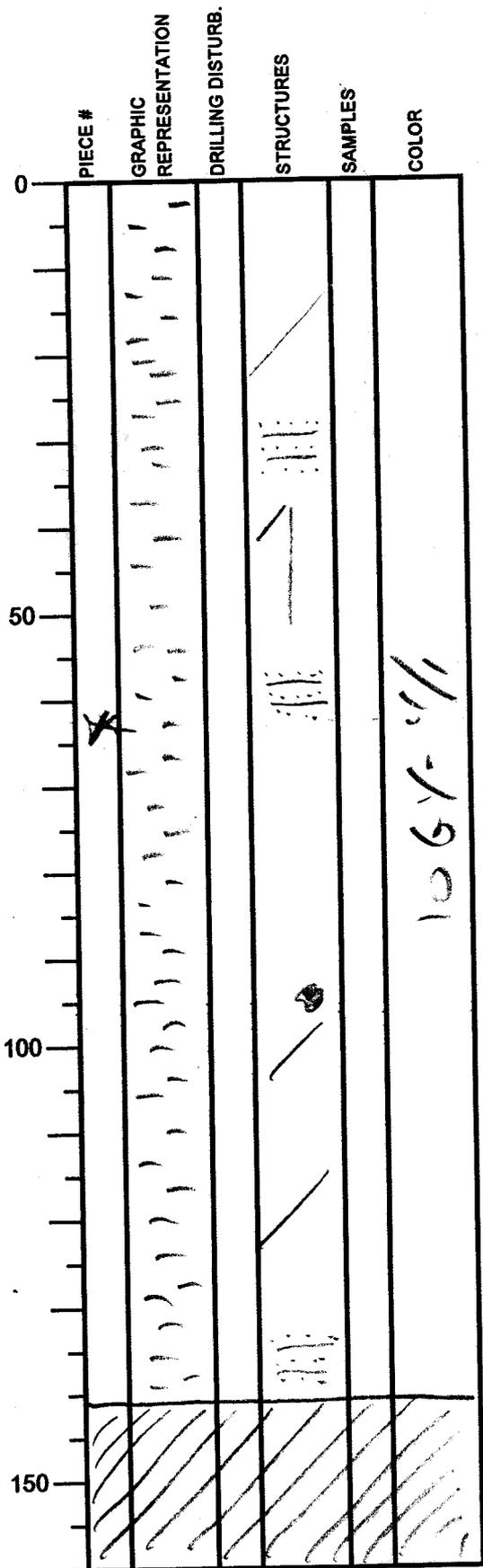
Dark greenish gray clay with some color banding and color mottling.

EOC = 144 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 441
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 17H
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: *J.L.*



SECTION DESCRIPTION

Dark greenish gray clay
 with color banding and
 some color mottling

Part of the section has been
 affected by faulting.

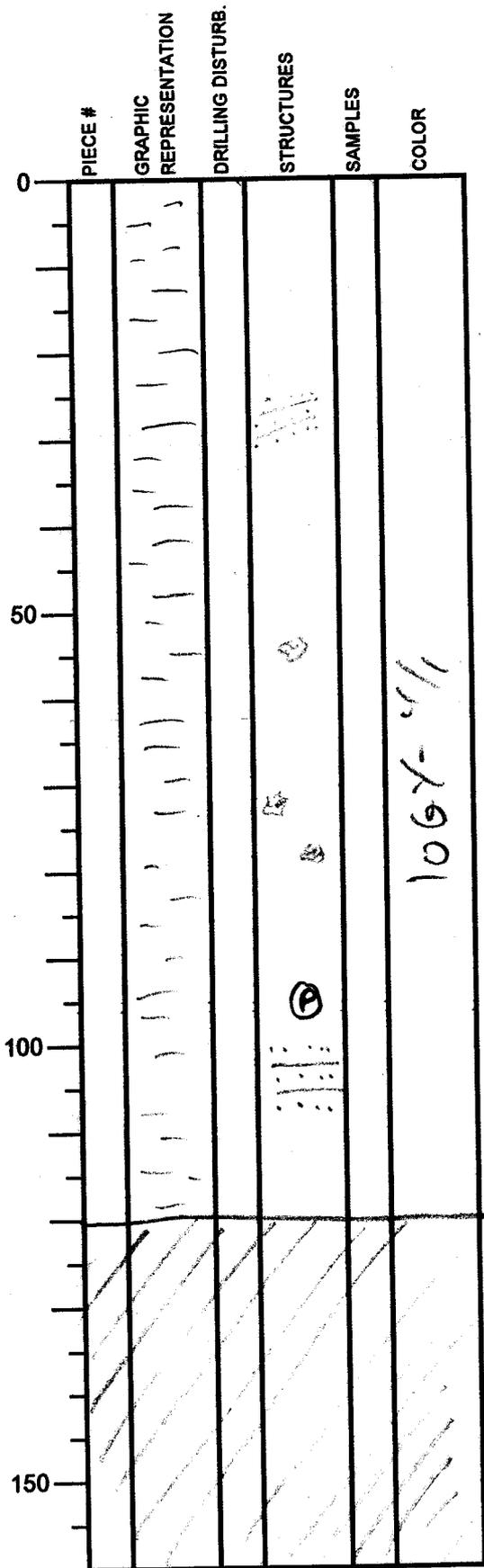
Smear slide at 69 cm

EOC = 141.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 442
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 17H
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

fel.

Dark greenish gray clay
 with some color banding
 and mottling

106X-11

EOC = 120 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 443
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 17 H
 SECTION: 4
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

Patches of light grey ash.

OBSERVER:

EOC = 240 cm

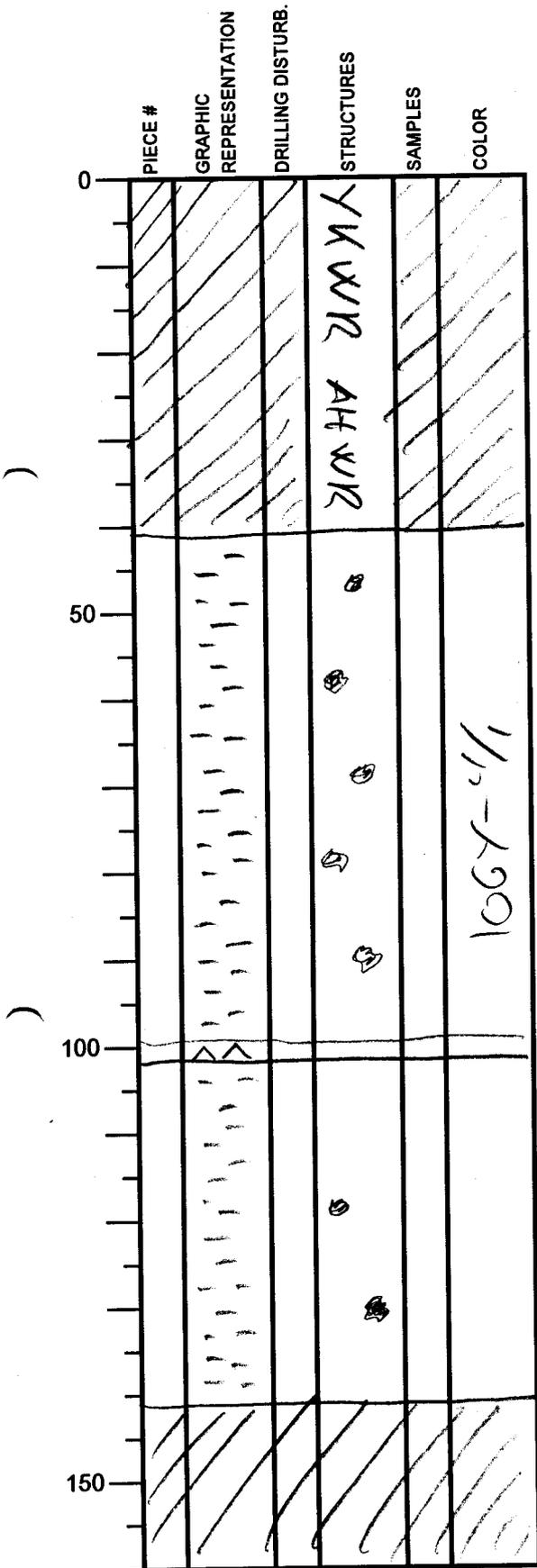
Integrated Ocean Drilling Program

Visual Core Description

NO. 444
 DATE: 2/12/20 10
 EXP.: 333
 SITE/HOLE: C0011 D
 CORE: 17H
 SECTION: 5
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: JAL.



Dark greenish gray clay
 with color mottling
 throughout

Ash layer

EOC = 192 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 445
 DATE 24/12/2010
 EXP.: 333
 SITE/HOLE: C0011 D
 CORE: 17 H
 SECTION: 7
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				RMS		
50				@ @ @		1/1, -1991
100				COM COM		
150						

SECTION DESCRIPTION

OBSERVER: *Y. L.*

Dark greenish gray clay with color mottling and color banding.

EOC = 121.5

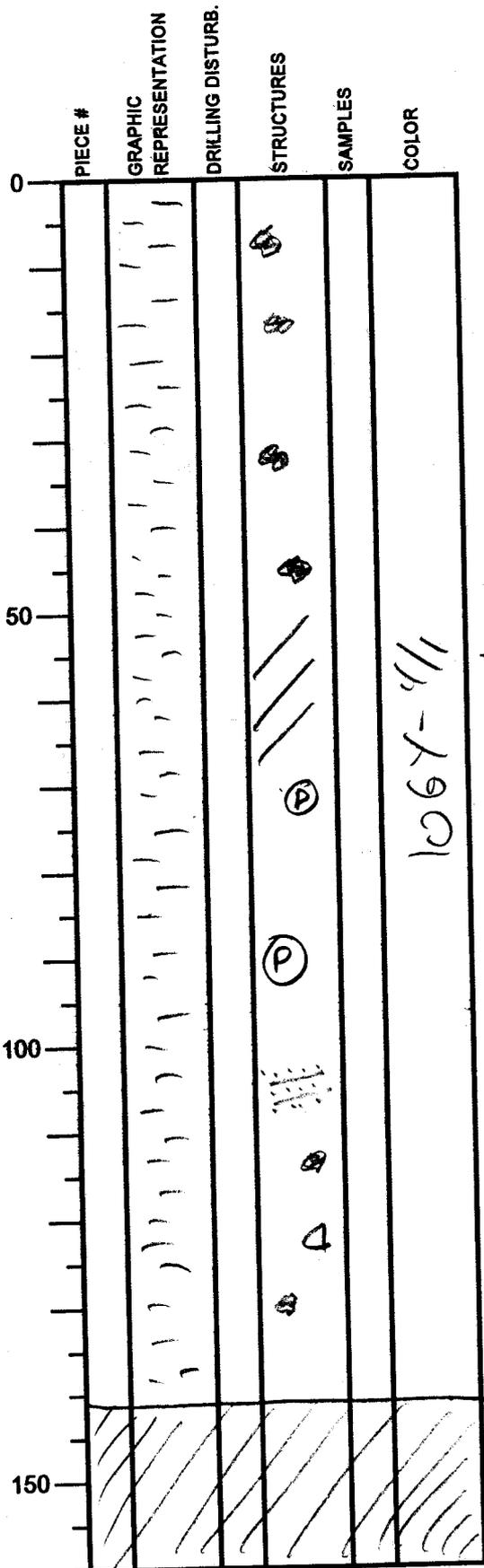
Integrated Ocean Drilling Program Visual Core Description

NO. 446
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 17H
 SECTION: 8
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER:

J. L.



1064-111

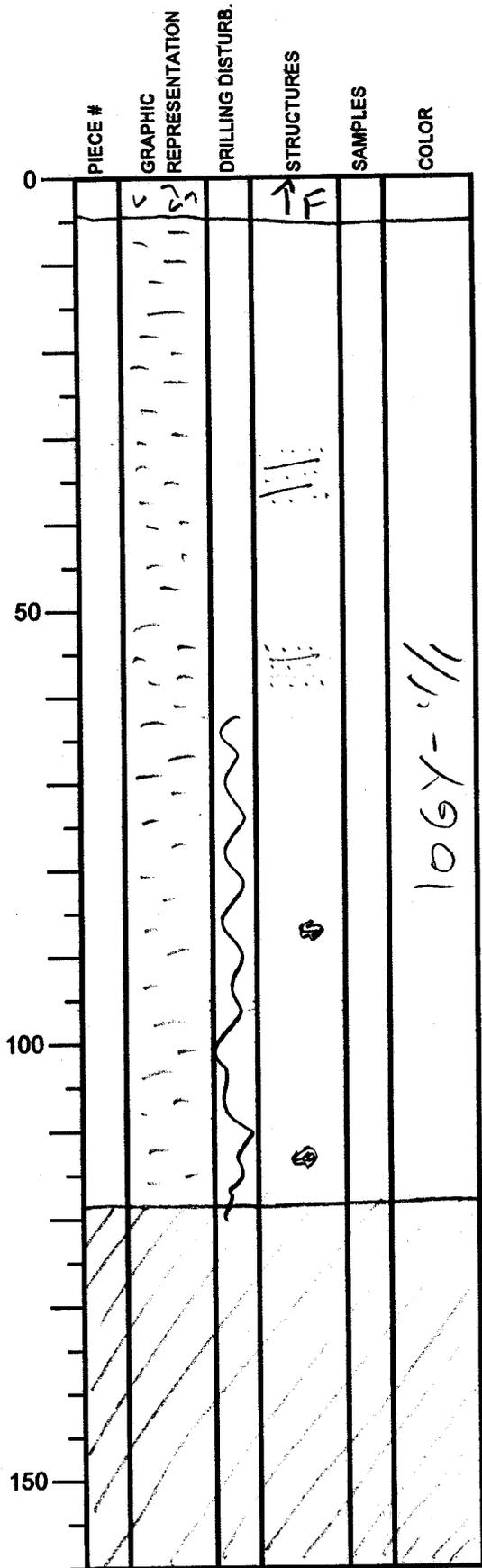
Faulting

EOC = 141.5

Integrated Ocean Drilling Program

Visual Core Description

NO. 447
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C0011 0
 CORE: 17H
 SECTION: 9
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

Ash layer

OBSERVER:

Y. L.

Dark greenish gray clay with some color bands and mottling and a 5 cm ash layer on top of the section.

EOC = 119 cm

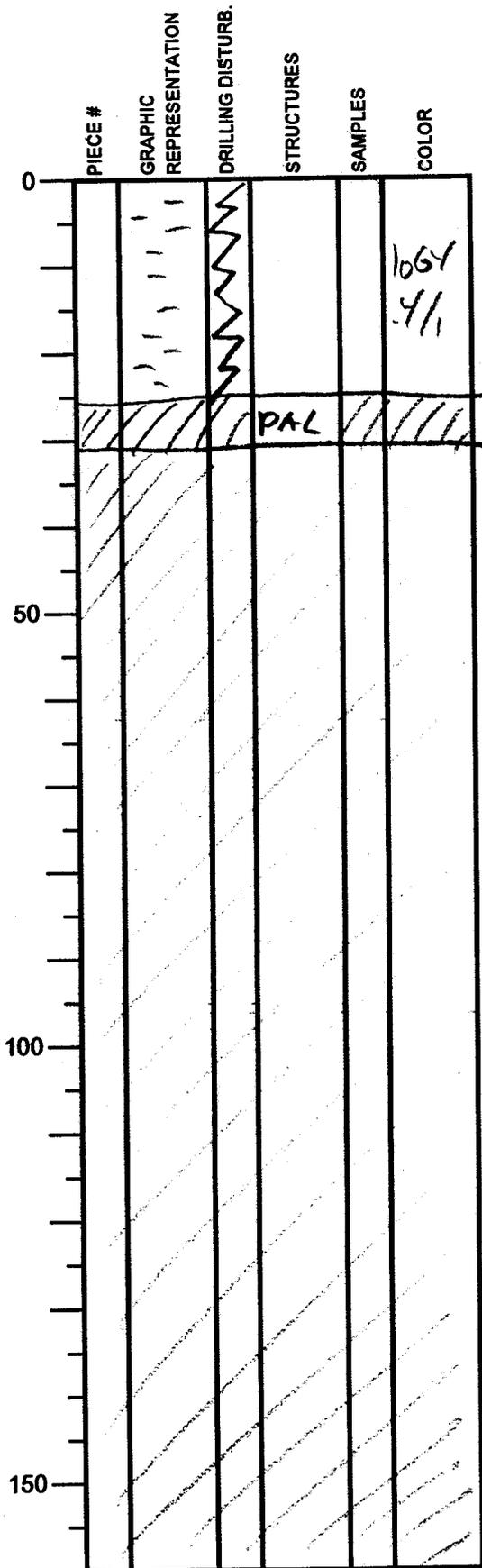
Integrated Ocean Drilling Program Visual Core Description

NO. ~~448~~
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 17H
 SECTION: CC
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER:

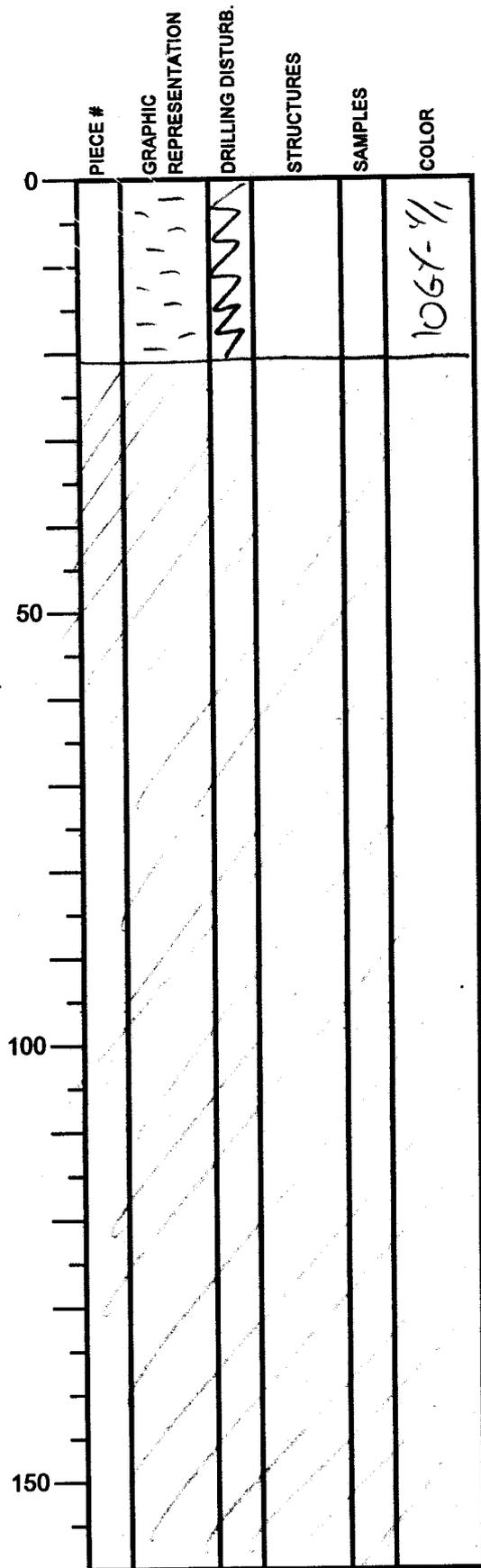
J.L.



EOC = 31 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 449
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 18H
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

JCL

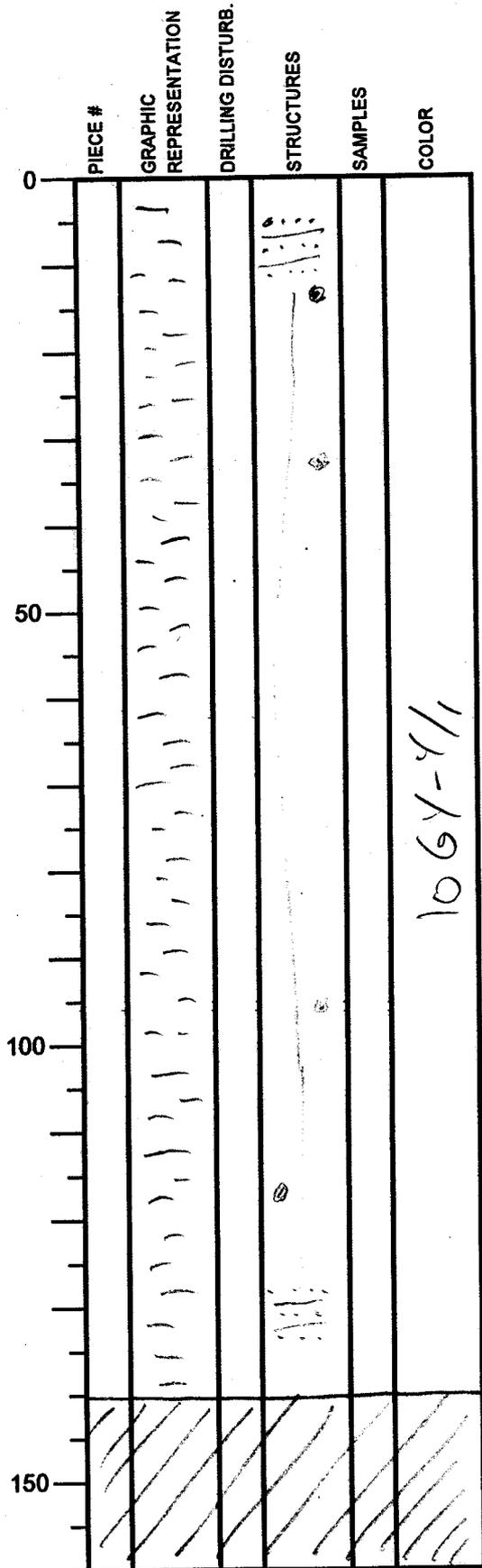
Dark greenish gray clay

EOC = 20.5 CL

Integrated Ocean Drilling Program

Visual Core Description

NO. 450
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 18 H
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

JCL

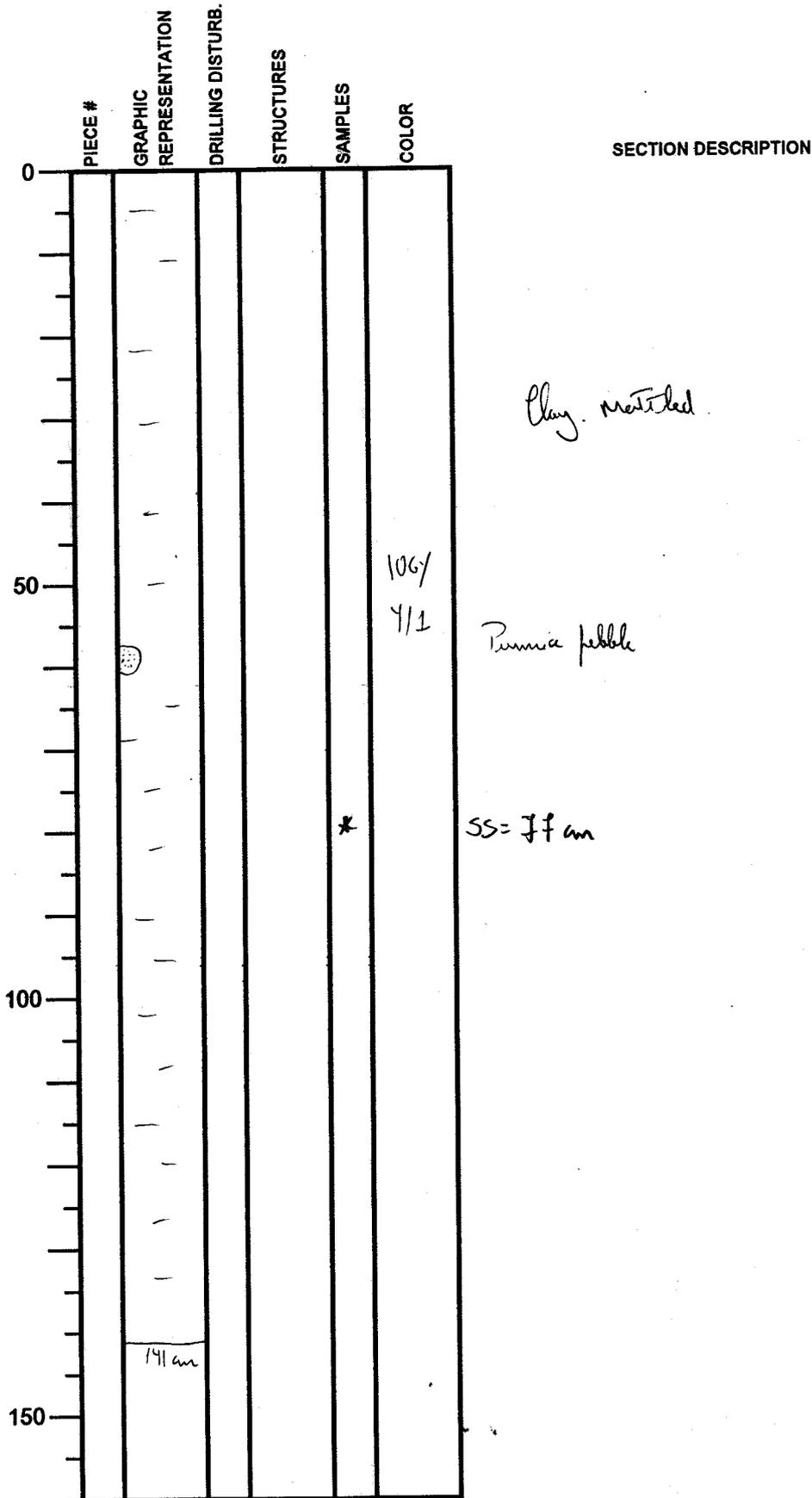
Color banding throughout
 Some color mottling
 This section is affected by
 faulting
 Dark greenish gray clay

EOC = 140cm

Integrated Ocean Drilling Program Visual Core Description

NO. 451
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: COO11 D
 CORE: 18H
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER: T. AWES



Integrated Ocean Drilling Program Visual Core Description

NO. 452
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 184
 SECTION: 5
 TOP DEPTH (m CSF):

OBSERVER: T. AWES

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

SECTION DESCRIPTION

scattered ash
 (SS = 29cm)

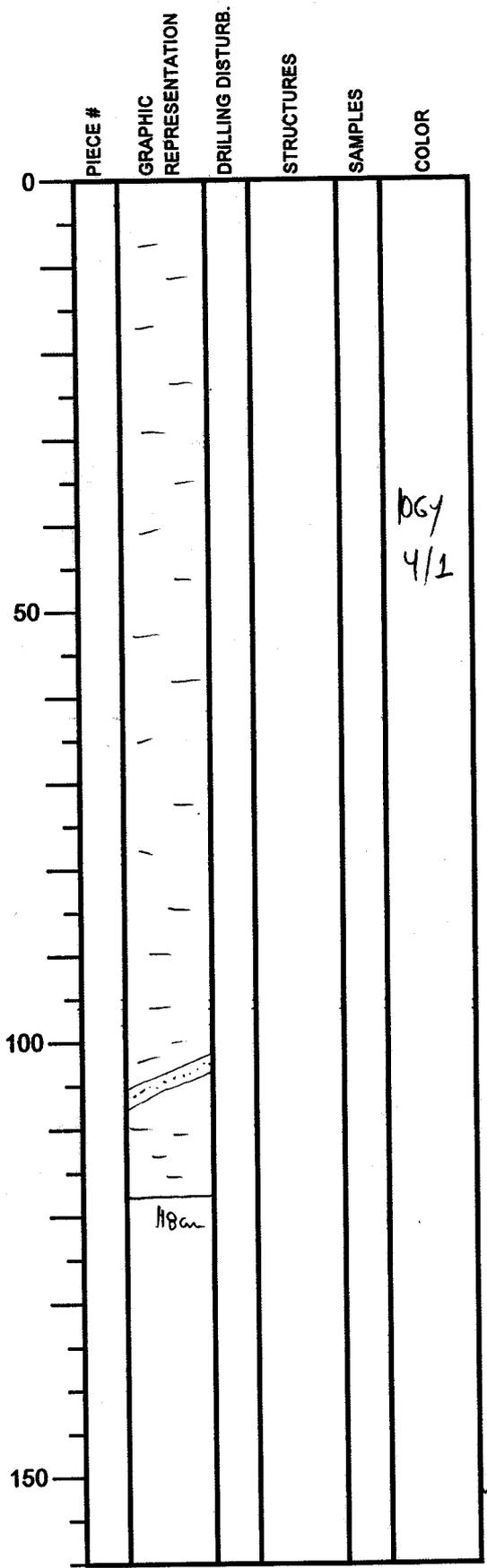
log
 4/1

Greenish gray clay. Mottled.
 Some scattered ash.

Integrated Ocean Drilling Program Visual Core Description

NO. 483
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 18W
 SECTION: 6
 TOP DEPTH (m CSF):

OBSERVER: T. ALVES



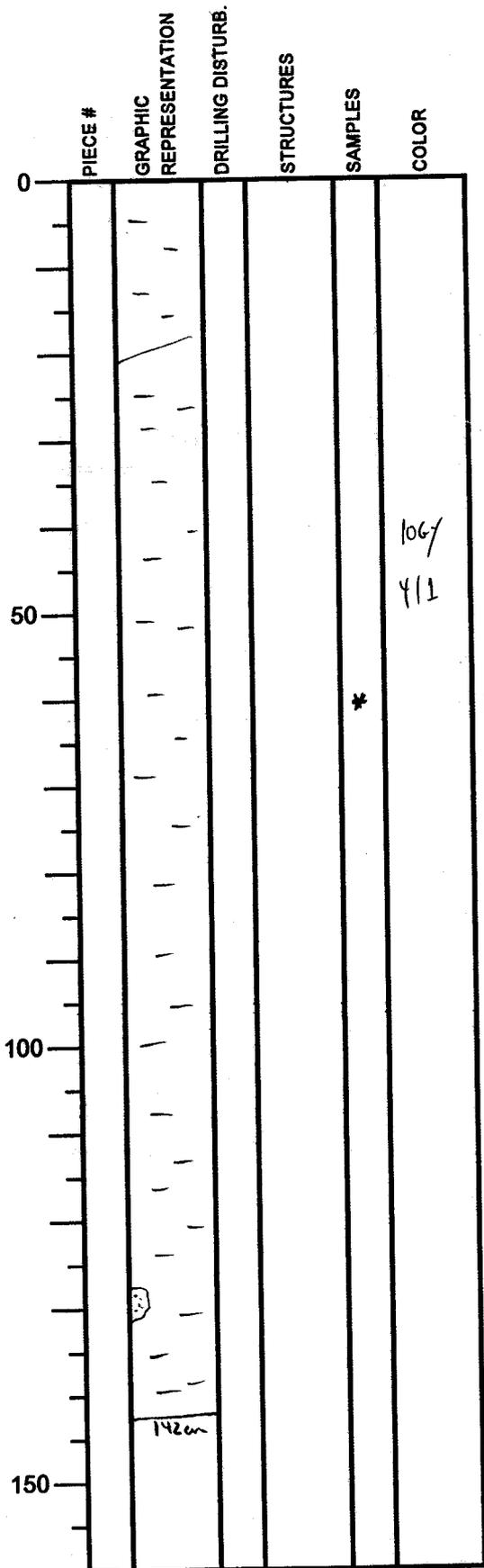
SECTION DESCRIPTION

Mottled clay - some scattered ash.

Integrated Ocean Drilling Program Visual Core Description

NO. 454
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: Coo11D
 CORE: 18H
 SECTION: 7
 TOP DEPTH (m CSF):

OBSERVER: T. ALVES



SECTION DESCRIPTION

clay greenish gray. mottled.
 Scattered ash

(SS = 60 cm)

mh

Integrated Ocean Drilling Program Visual Core Description

NO. 455
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 18H
 SECTION: 8
 TOP DEPTH (m CSF):

OBSERVER: J. AWES

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

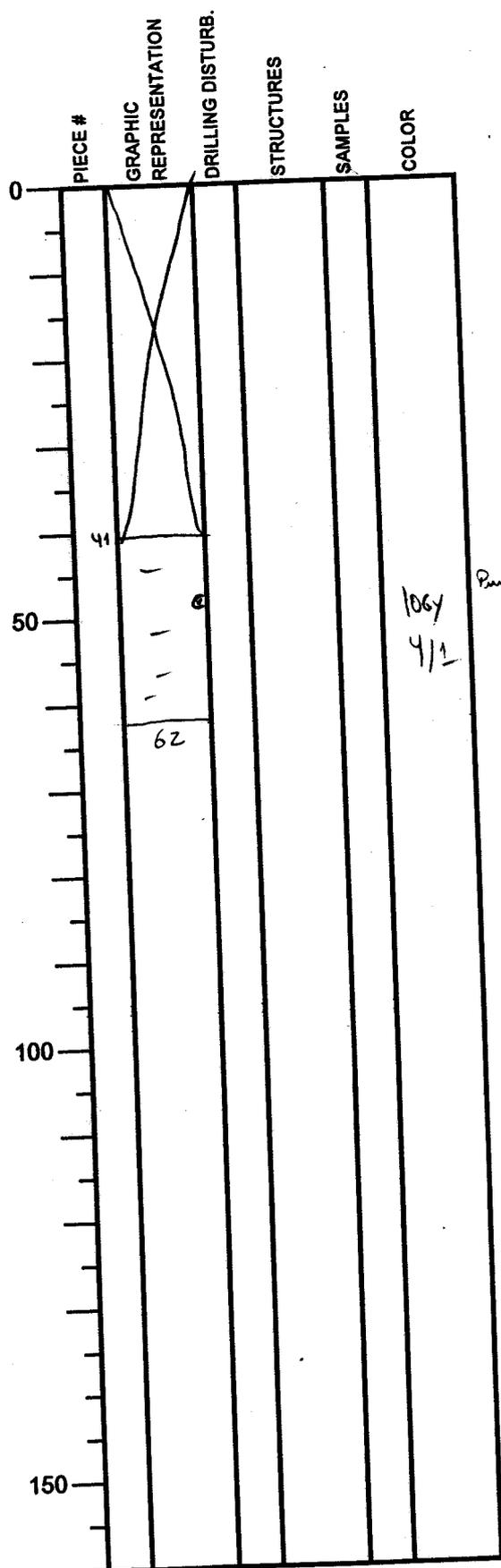
SECTION DESCRIPTION

Clay, greenish gray - mottled
Scattered arb.

Integrated Ocean Drilling Program Visual Core Description

NO. 456
 DATE: 21/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 18H
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER: T. ALVES



SECTION DESCRIPTION

Clay. Scattered area

Integrated Ocean Drilling Program
Visual Core Description

457
NO. ~~453~~
DATE: 29/12/2010
EXP.: 333
SITE/HOLE: COO 11D
CORE: 18H
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
50	40 cm				log 4/11
100					
150					

SECTION DESCRIPTION

OBSERVER: T. AWES

Clay, mottled scattered ash.

Integrated Ocean Drilling Program

Visual Core Description

NO. 458
 DATE: 24/2/2010
 EXP.: 333
 SITE/HOLE: 0011D
 CORE: 19H
 SECTION: 01
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: S Gao

Silty clay, with
 ash layers and clasts
 (light colored ash
 sandy materials are
 present at 130-134cm)

4/10 G1

Integrated Ocean Drilling Program Visual Core Description

NO. 465
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 20H
 SECTION: 01
 TOP DEPTH (m CSF):

OBSERVER: S Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			▲ ↓			4/ 1064
50						
100						
150						

SECTION DESCRIPTION

*Silty clay.
 Heavily disturbed.*

Integrated Ocean Drilling Program

Visual Core Description

NO. 466
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 20H
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: S Gas

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

SECTION DESCRIPTION

Silty clay, with ash layers and clasts. There appears to be internal deformation.

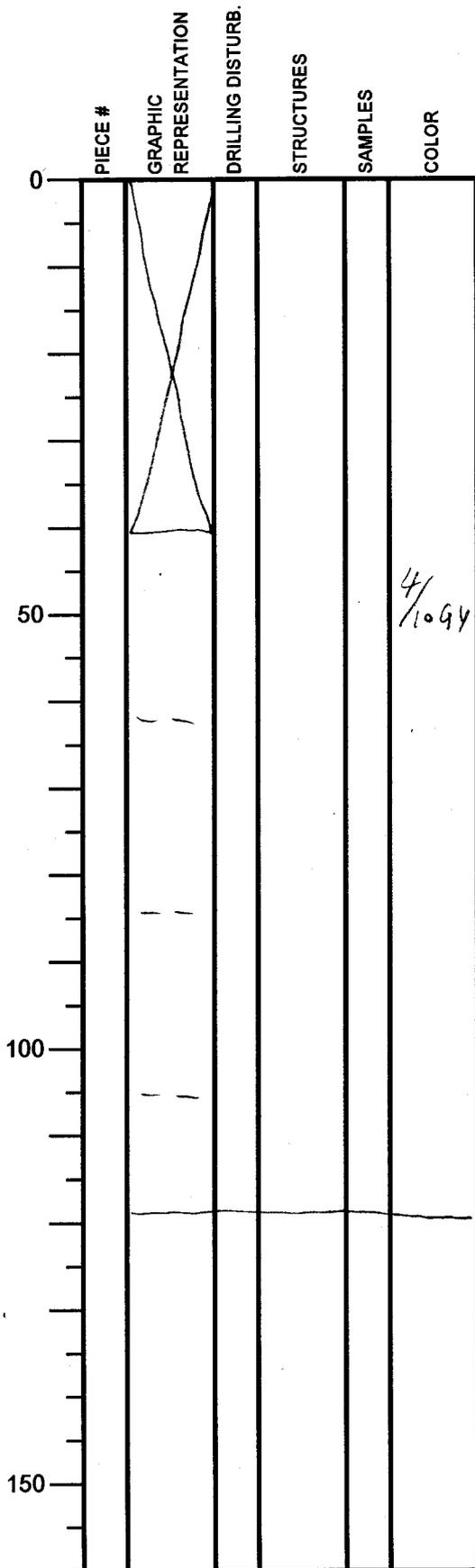
6/10GY
 3/10GY
 5/10GY — SS (132 cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 467
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 20H
 SECTION: 03
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

The same as
 the silty clay
 section of 20H-02.

Integrated Ocean Drilling Program Visual Core Description

NO. 468
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 20H
 SECTION: 05
 TOP DEPTH (m CSF):

OBSERVER: S. Gas

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						4/ 1094
100		*				- SS (98cm)
150						

SECTION DESCRIPTION

The same as
20H-03 Section.

Integrated Ocean Drilling Program

Visual Core Description

NO. 469
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C001D
 CORE: 20H
 SECTION: 06
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as
 20H-05 section,
 except in the
 lower part an
 ash layer occurs
 (83-91 cm).

OBSERVER: S Gas

Integrated Ocean Drilling Program

Visual Core Description

NO. 470
 DATE: 24/2/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 20H
 SECTION: CC-AA
 TOP DEPTH (m CSF):

OBSERVER: SGao

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

SECTION DESCRIPTION

Silty clay.

Integrated Ocean Drilling Program

Visual Core Description

NO. 471
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 21H
 SECTION: 01
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

Silty clay, with ash layers and clasts

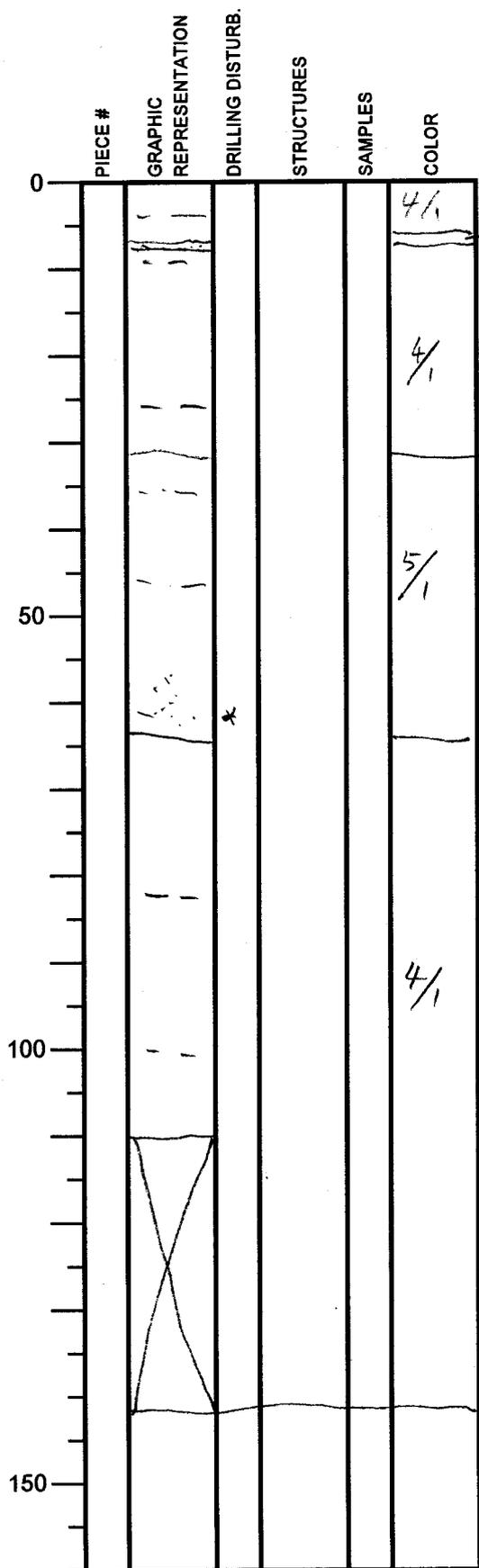
4/1094

OBSERVER: J Gas

Integrated Ocean Drilling Program

Visual Core Description

NO. 472
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 21H
 SECTION: 02
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: S Gao

Silty clay with ash layers (in particular, a light colored layer occurs at 8-9 cm).

Light colored silt. (silt turbidite?)

- ss (62cm)

Silty clay with ash layers and clasts.

Integrated Ocean Drilling Program

Visual Core Description

NO. 473
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 21H
 SECTION: 03
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

silty clay, with
 ash layers and clasts.

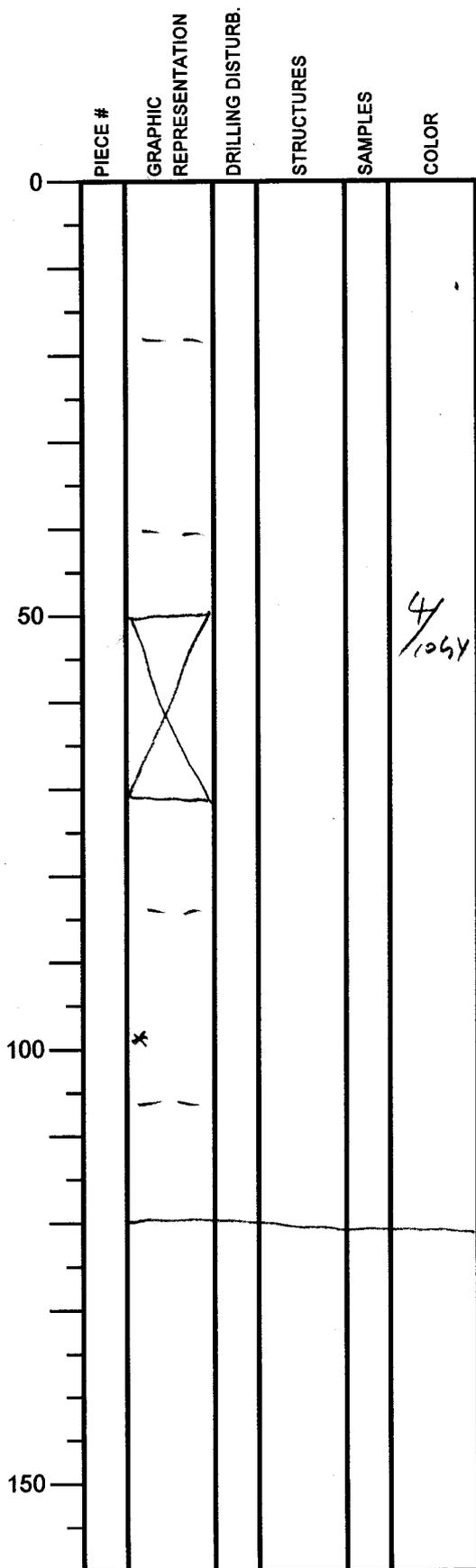
OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 474
 DATE: 24/12/2010
 EXP.: 332
 SITE/HOLE: C0011D
 CORE: 21H
 SECTION: 05
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

The same as
 21H-03. Dark
 and white ash
 layers occur at
 78~79 cm.

4/
106Y

- SS
 (99 cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 475
 DATE: 29/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 21H
 SECTION: 06
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: S Gao

Silty clay, with
 an ash
 layer
 at 21-29cm.

SS (28.5 cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 476
 DATE: 24/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: Z1H
 SECTION: CC-AA
 TOP DEPTH (m CSF):

OBSERVER: SGao

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

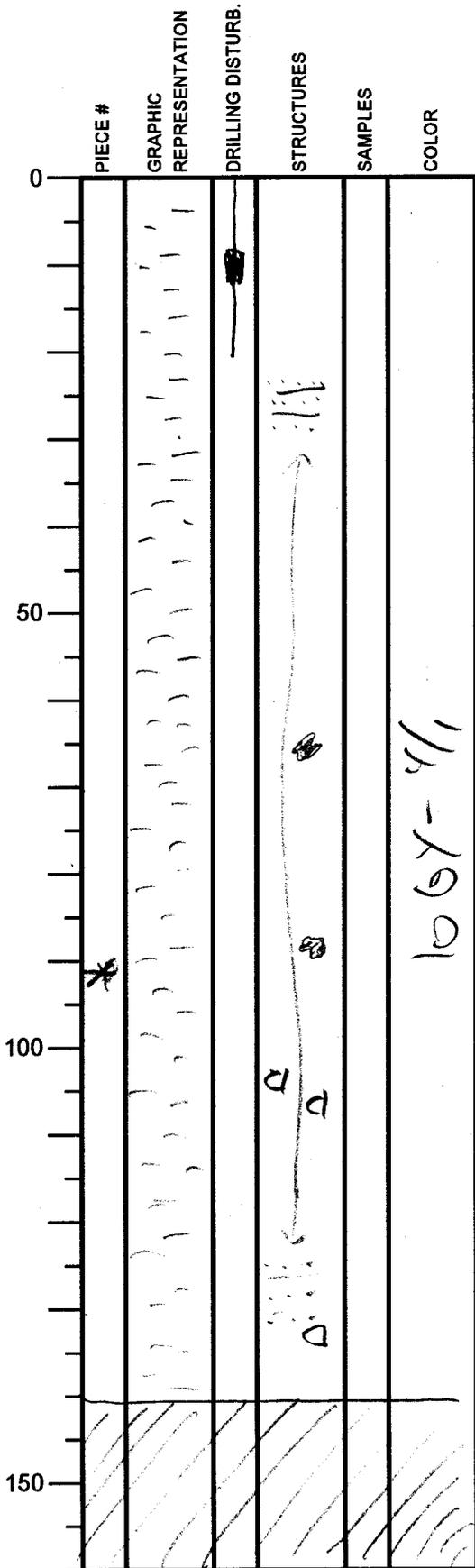
SECTION DESCRIPTION

Silty clay.

Integrated Ocean Drilling Program

Visual Core Description

No. 477
 DATE: 8/12/2000
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 22H
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *fel.*

Dark greenish gray clay
 with color banding and
 some color mottling.
 Patches of ash at 102 -
 110 cm depth.

* Smear slide at 92 cm

EOC = 140 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 478

DATE: 25/12/2010

EXP.: 333

SITE/HOLE: COO110

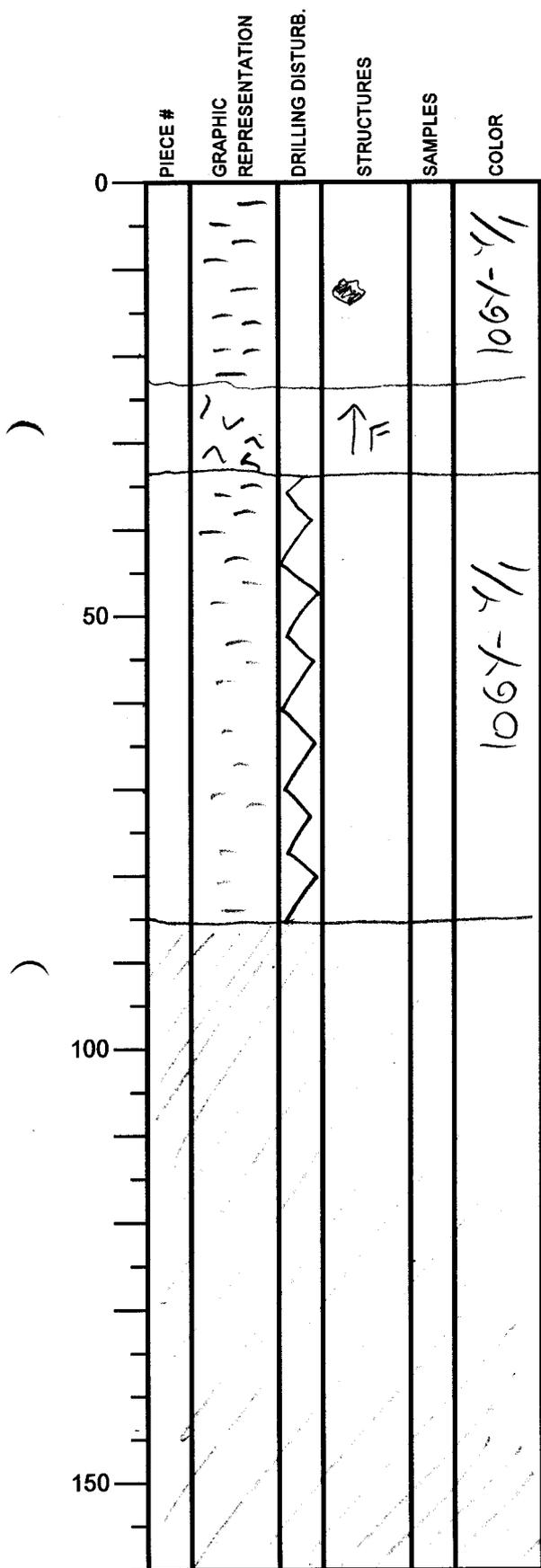
CORE: 22H

SECTION: 2

TOP DEPTH (m CSF):

OBSERVER:

Jan L.



SECTION DESCRIPTION

Dark grey - gray ash layer

Flow-in

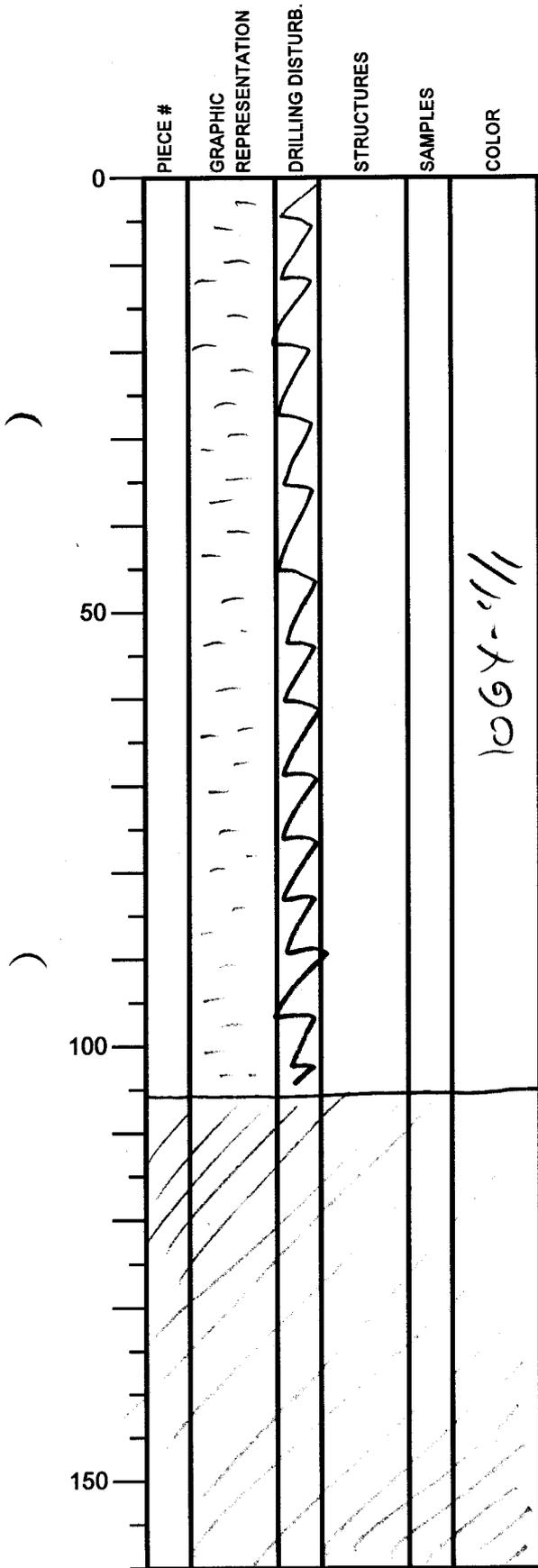
Dark greenish gray clay with some color mottling, then an ash layer, beneath the clay is severely disturbed by inflow.

EOC = 85 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 479
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: COO11 D
 CORE: 22 H
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *gal*

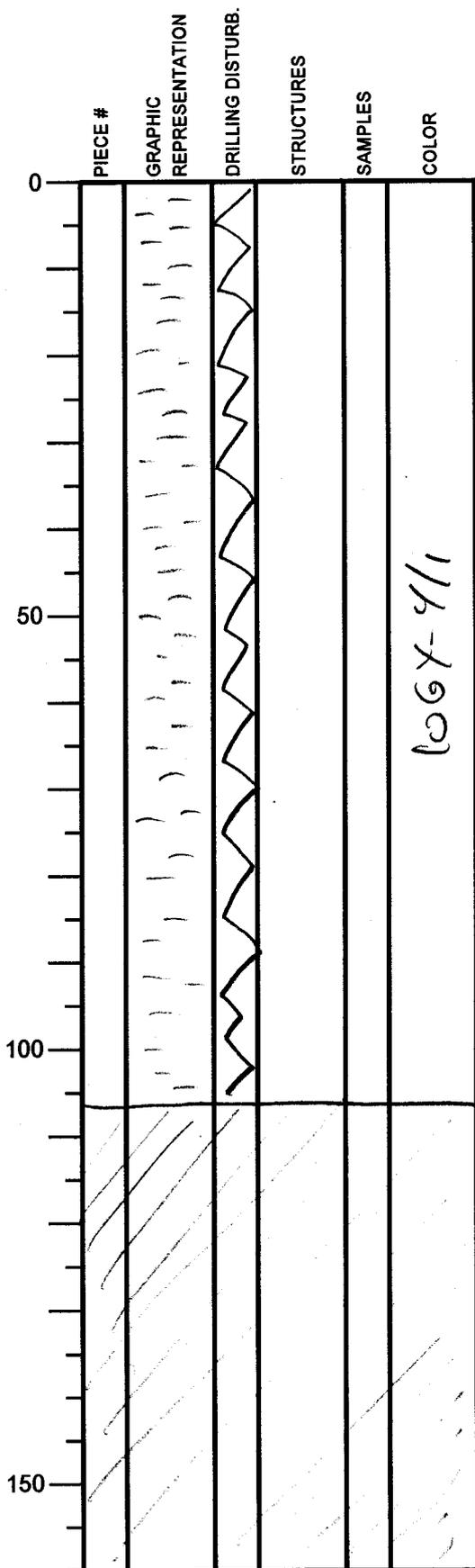
Dark greenish gray clay
severely disturbed by
inflow

EOC = 105.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 480
 DATE: 5/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 22H
 SECTION: 4
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

Jal

*Dark greenish gray clay
 severely disturbed
 by influx*

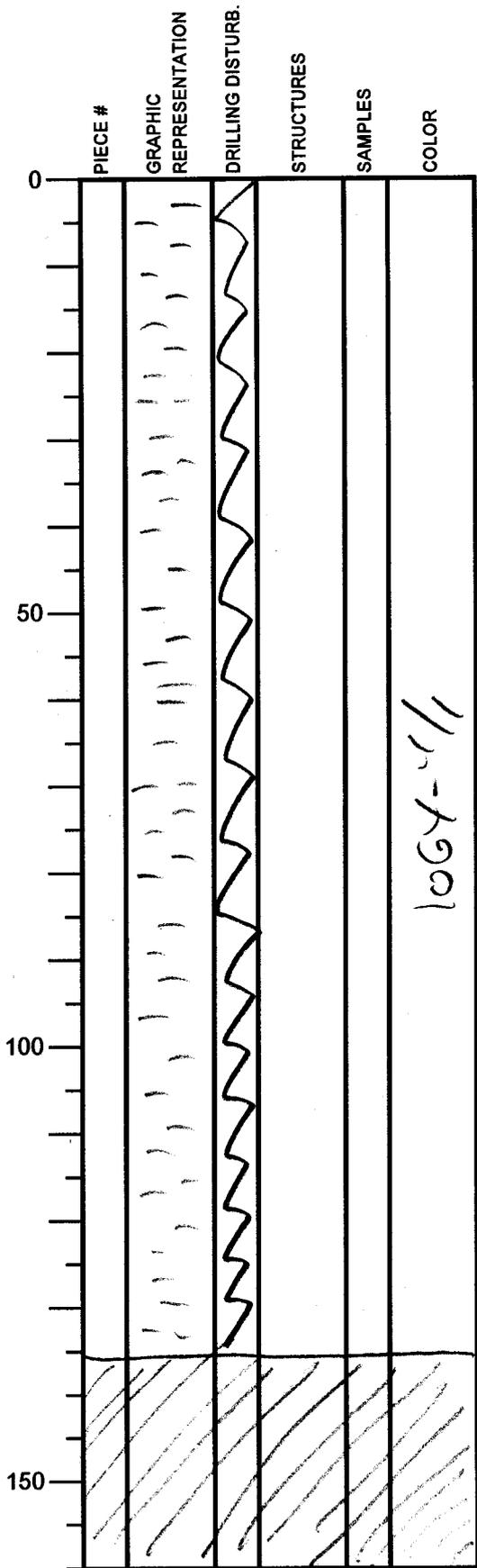
1067-4/1

EOC = 106.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 181
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C0011 D
 CORE: 22 H
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

Jul

Dark greenish gray clay
 severely disturbed by
 inflow.

1064-11

EOC = 135.5c

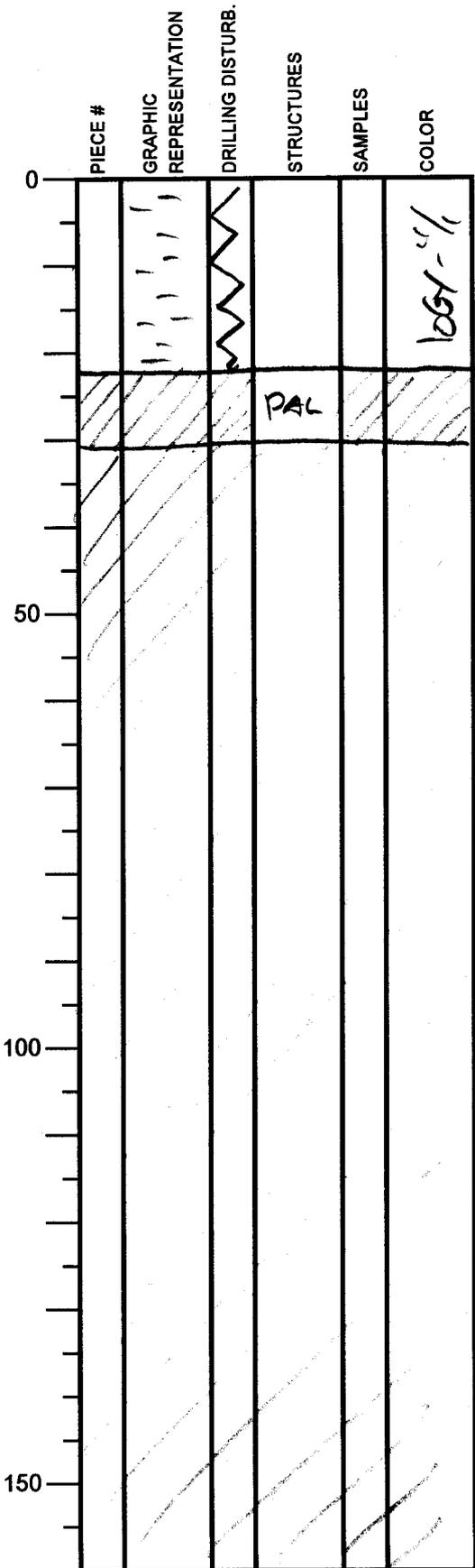
Integrated Ocean Drilling Program Visual Core Description

NO. 482
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 2216
 SECTION: CC
 TOP DEPTH (m CSF):

OBSERVER:

Jan L.

SECTION DESCRIPTION

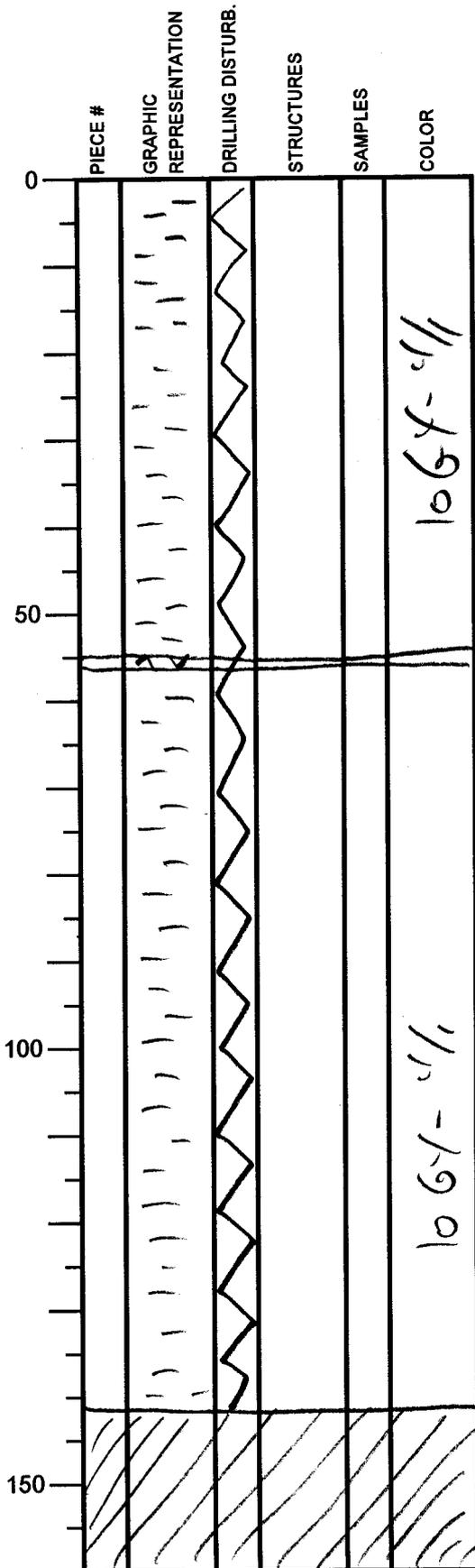


EOC = 30.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 483
 DATE: 25/11/2010
 EXP.: 333
 SITE/HOLE: C0011 D
 CORE: 23T
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *JAL*

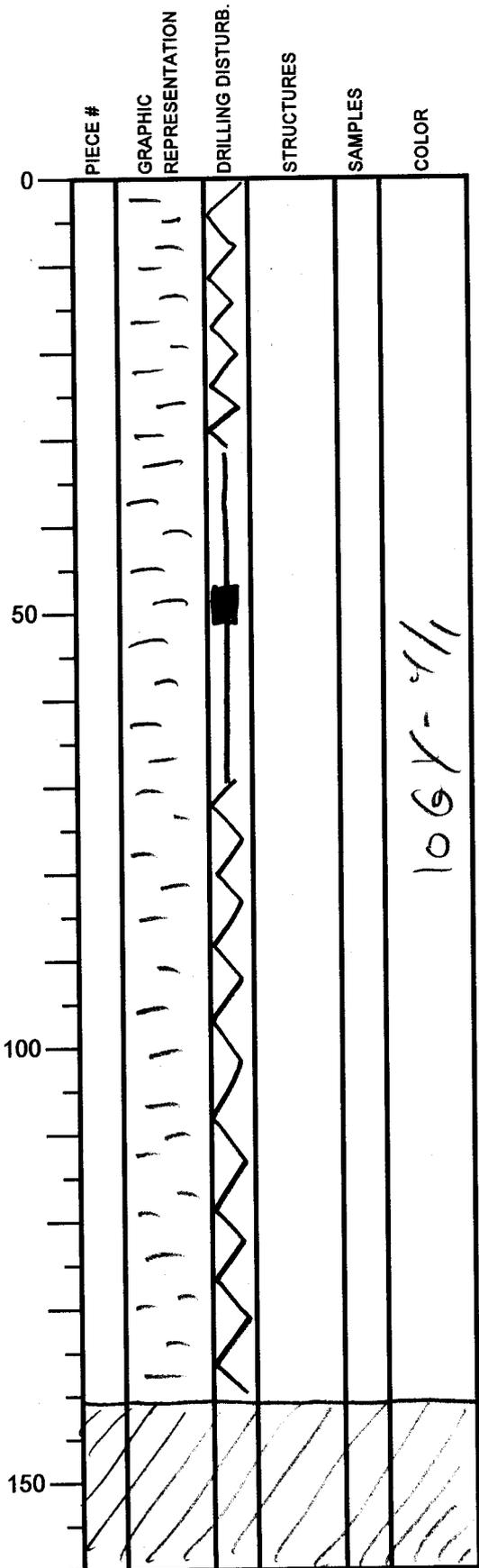
Ash layer, disturbed

Dark greenish gray clay, severely disturbed during drilling

EOC = 141 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 484
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: COO 110
 CORE: 23T
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

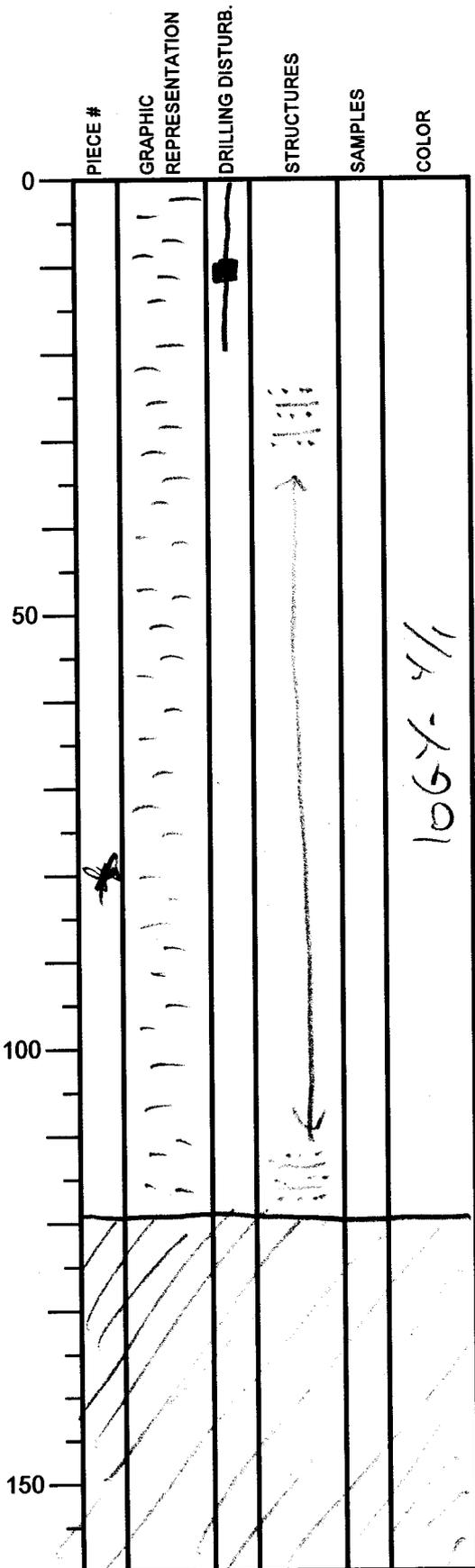
JCL

*Dark greenish gray clay,
 severely disturbed
 during drilling*

EOC = 140.5

Integrated Ocean Drilling Program Visual Core Description

NO. 485
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 23T
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

JCL

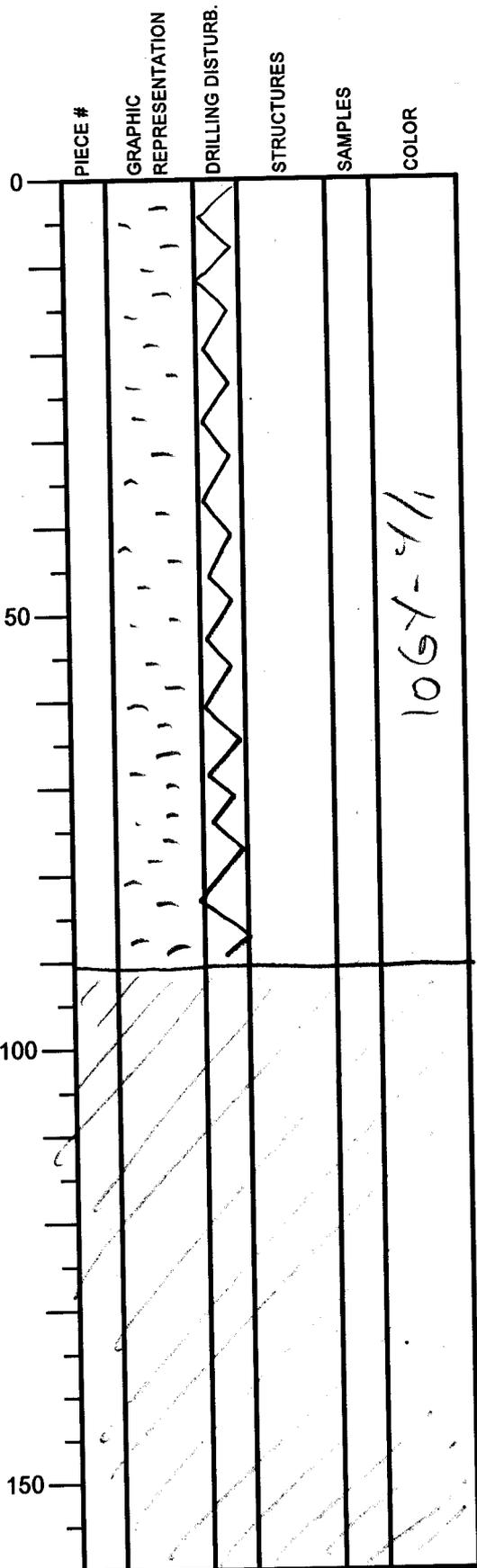
Smear slide at 80 cm

*Dark greenish gray clay
 with color banding, partly
 moderately disturbed
 during drilling*

EOC = 119 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 486
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C 0011 0
 CORE: 21T
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *Jal*

Dark greenish gray clay,
severely disturbed
during coring.

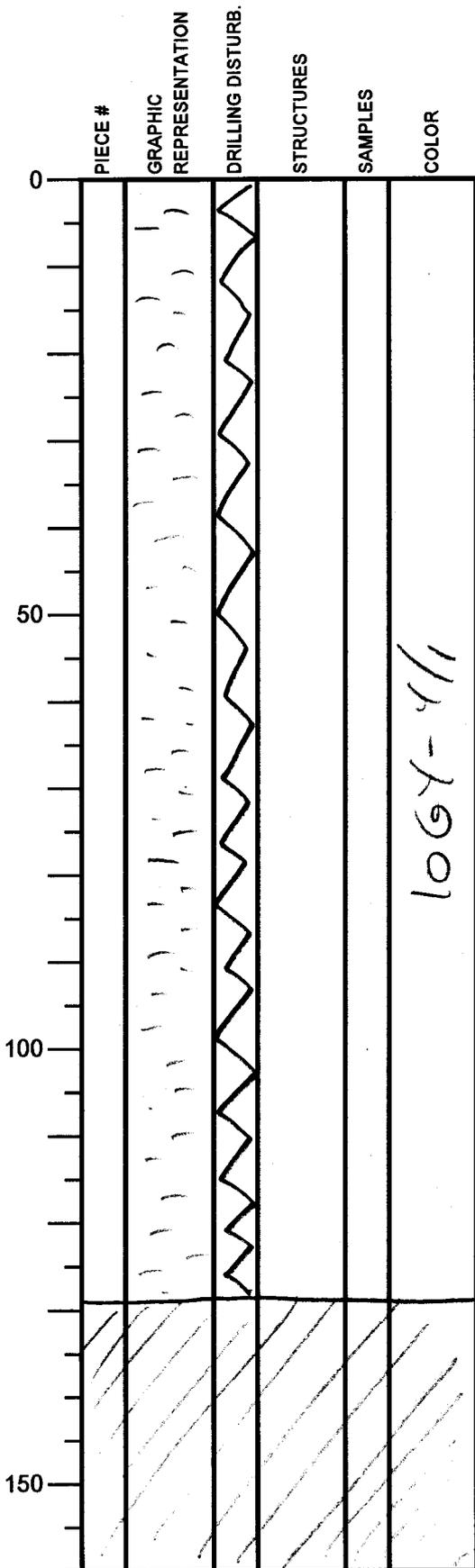
1064-1/1

EOC = 91 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 487
 DATE: 2/2/2010
 EXP.: 333
 SITE/HOLE: C0011 D
 CORE: 2Y T
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: J. L.

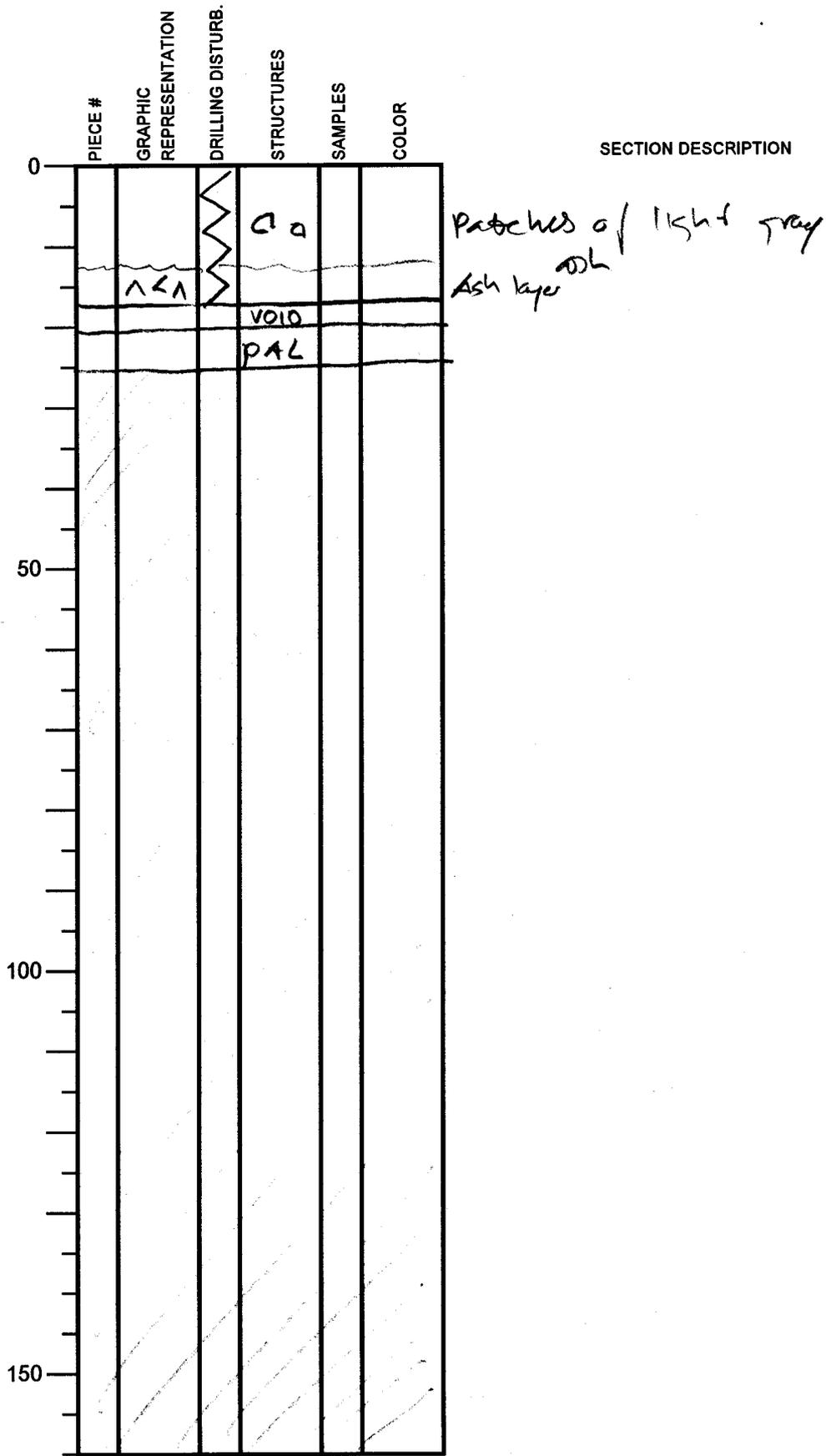
Dark greenish gray clay
 severely disturbed
 during coring

EOC = 129 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 488
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: CO11D
 CORE: 249
 SECTION: CC
 TOP DEPTH (m CSF):



OBSERVER: JAL.

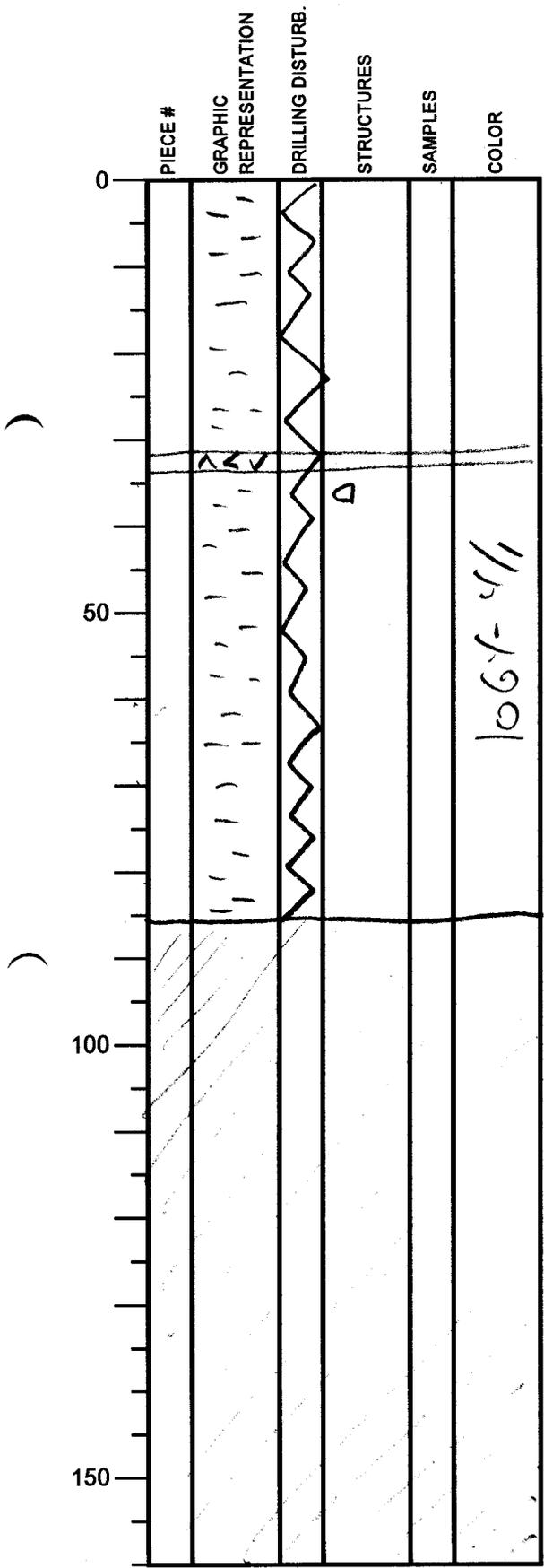
EOC = 28.5cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 489
 DATE: 8/2/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 25T
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: *Ja L.*



SECTION DESCRIPTION

Layered patch of light gray ash

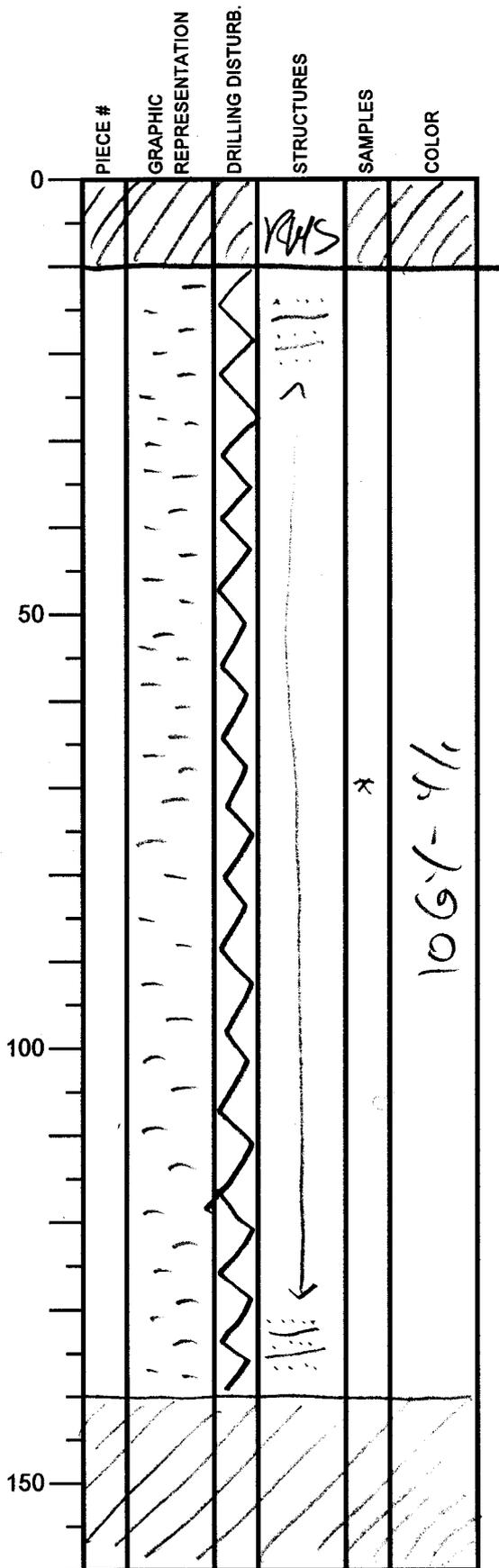
Dark greenish gray clay and an ash layer severely disturbed during coring.

EOC = 85.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 490
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 25T
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

Jan L.

Smear slide at 70 cm

Dark greenish gray clay
 with faint color banding
 throughout - severely
 disturbed during coring

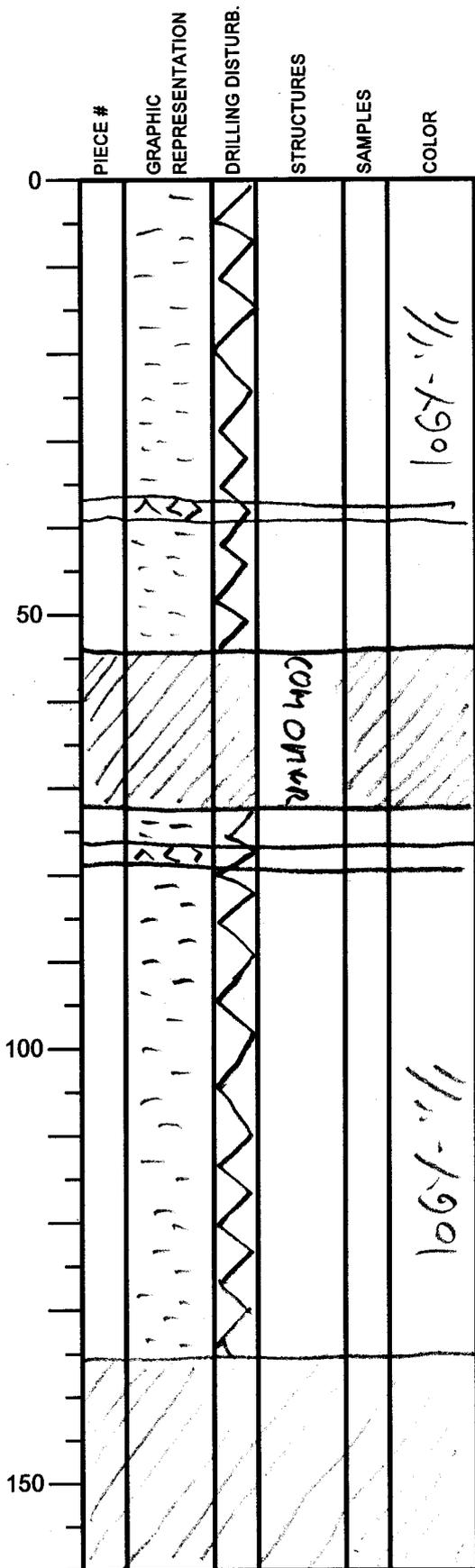
ECC = 140 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 491
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 25T
 SECTION: 4
 TOP DEPTH (m CSF):

OBSERVER:
 Jan L.



SECTION DESCRIPTION

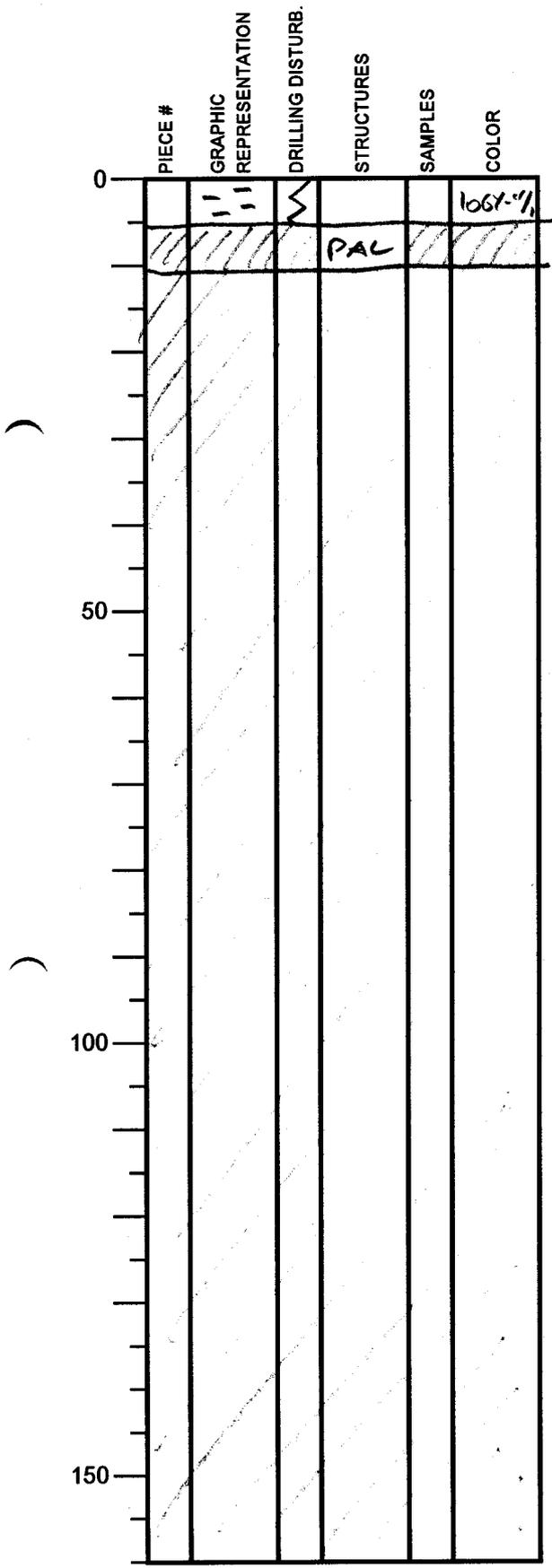
Blade ash layer

Dark greenish gray clay
 severely disturbed during
 coring

EOC = 136

Integrated Ocean Drilling Program Visual Core Description

NO. 492
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 2ST
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

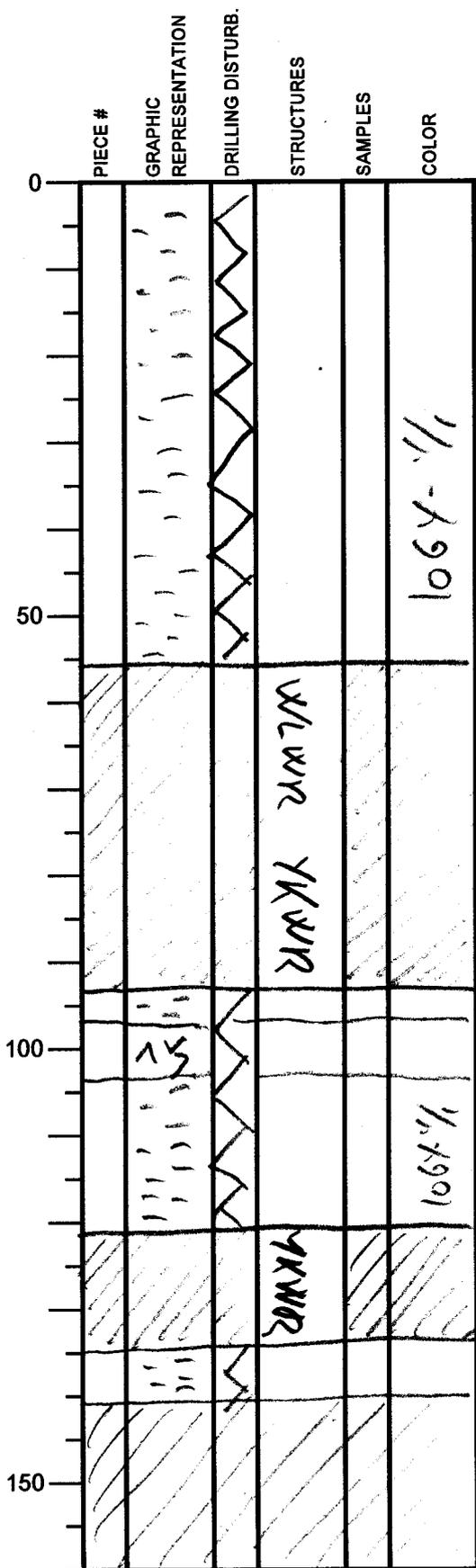
OBSERVER: *faL*

EOC = 10.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 493
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 26X
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *yal*

Dark greenish gray clay severely disturbed during drilling.

zone of patches of ash

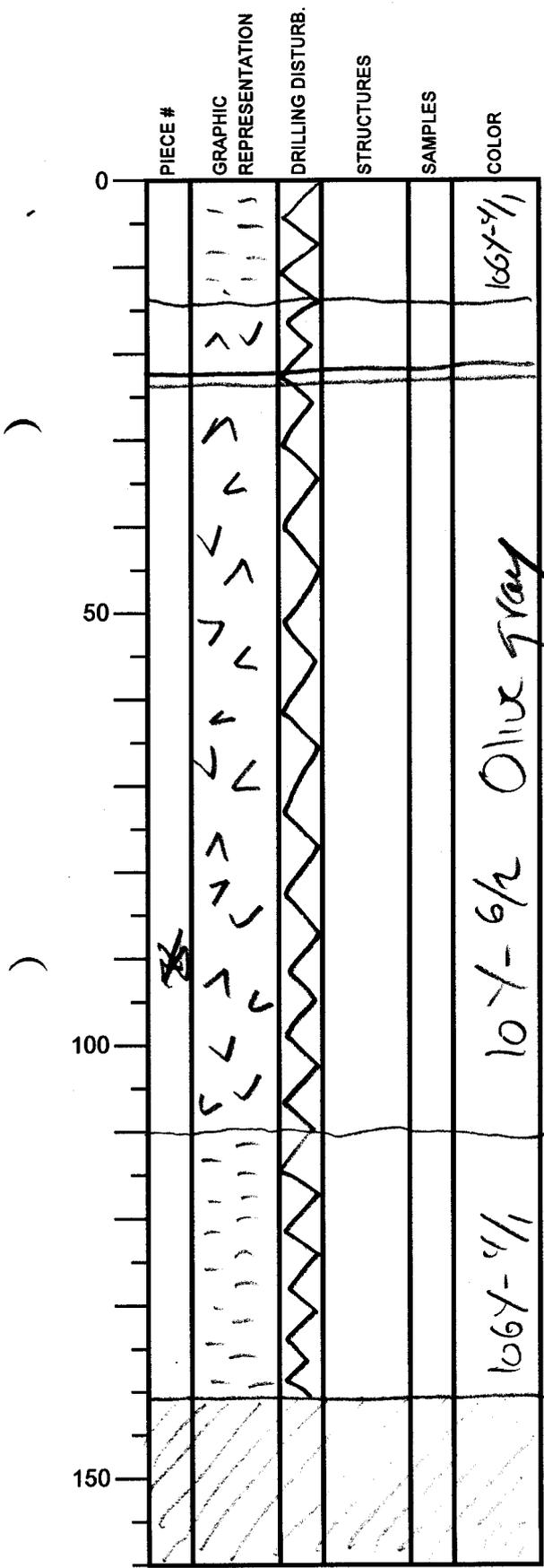
EOC = 141.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 494
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 26X
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: *fa L.*



Dark greenish gray clay, interbedded is an olive gray ash layer both severely disturbed during drilling.

S Smear slide at 90cm

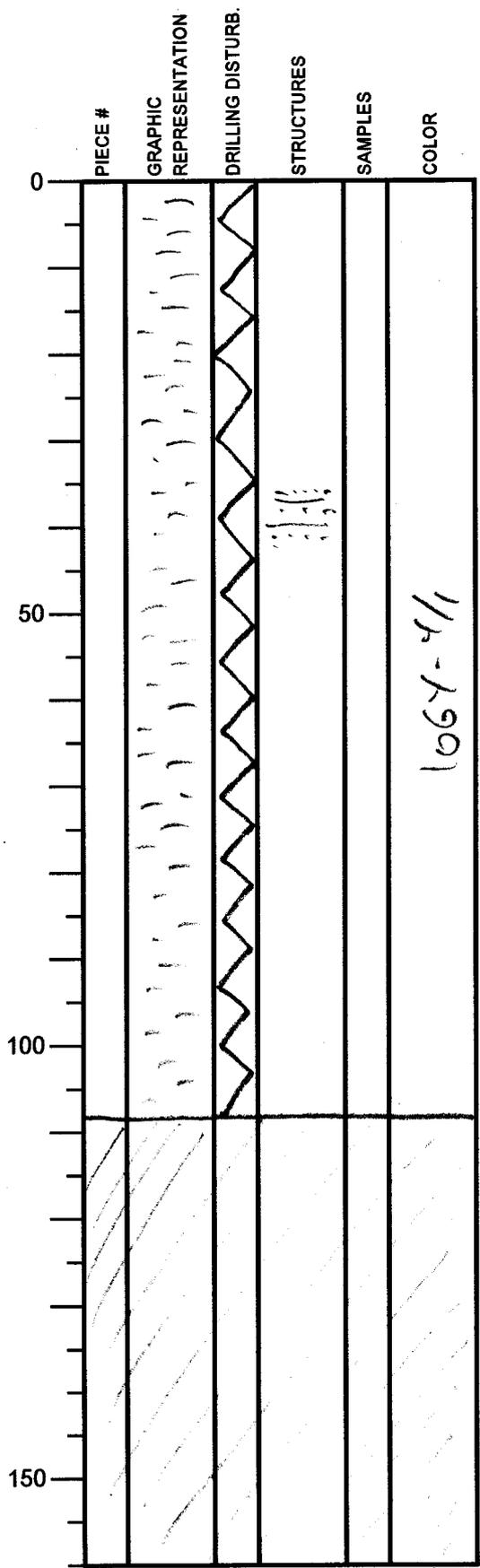
140.5cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 495
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 26 X
 SECTION: c1
 TOP DEPTH (m CSF):

OBSERVER: Yac.



SECTION DESCRIPTION

Dark greenish gray clay
 comprising faint color
 banding - severely disturbed
 during drilling.

EOC = 108.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 496

DATE: 25/12/2010

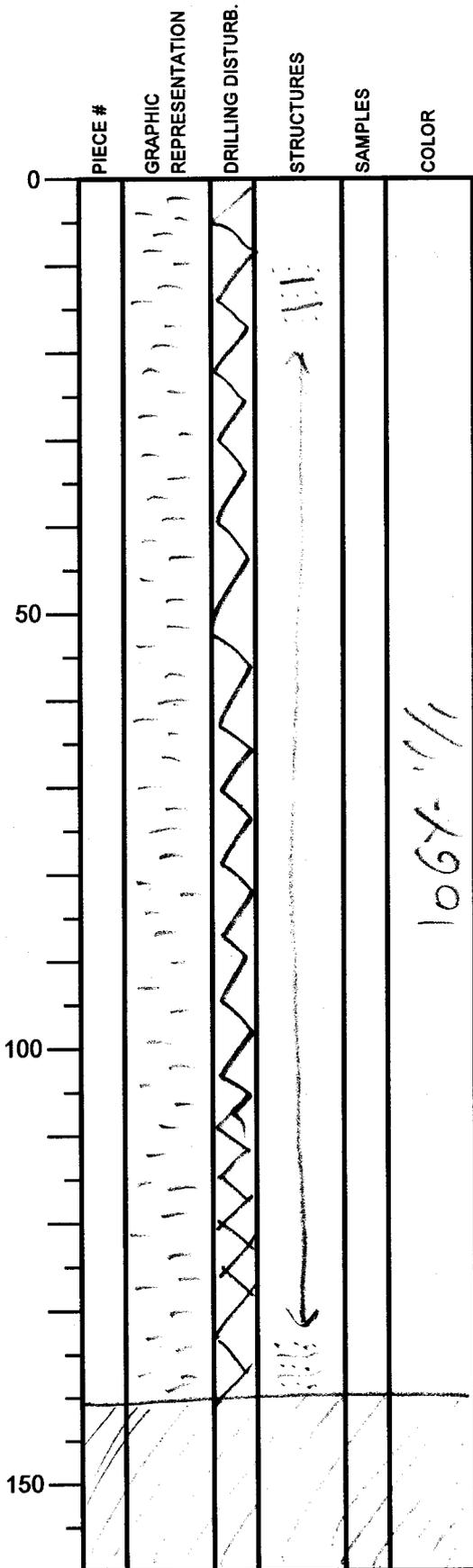
EXP.: 333

SITE/HOLE: C0011 D

CORE: 26X

SECTION: 5

TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

Y. L.

Dark greenish gray clay
comprising faint color
banding throughout -
severely disturbed during
drilling.

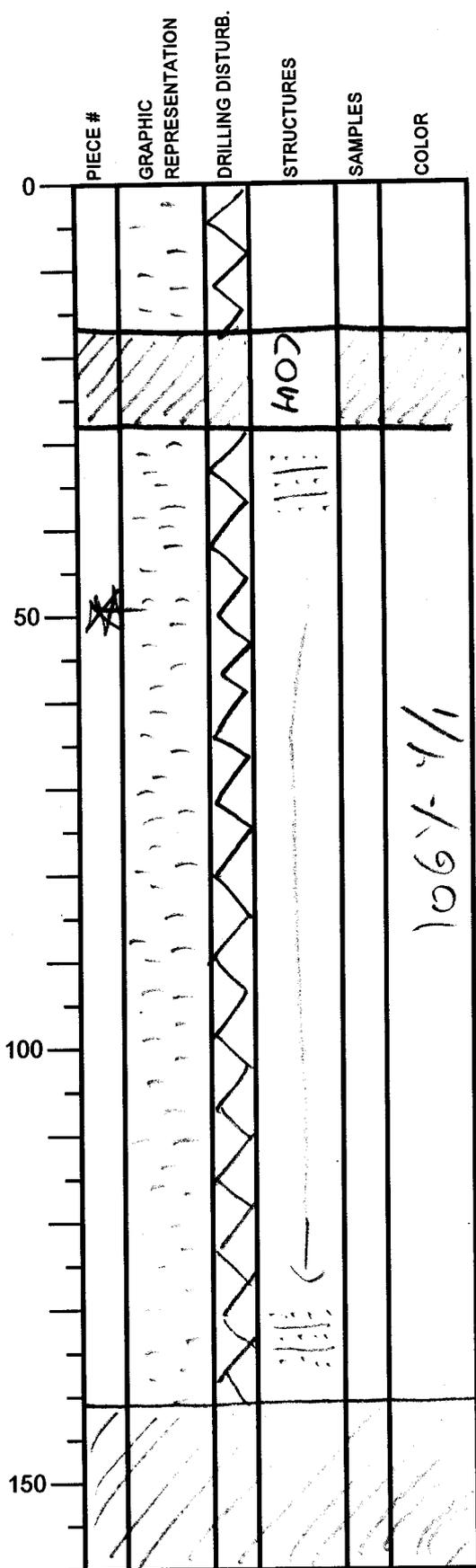
106Y-1/1

EOC = 140.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 497
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 26X
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: J.C.L.

Dark greenish gray clay
 comprising faint color banding
 throughout - severely
 disturbed during drilling.

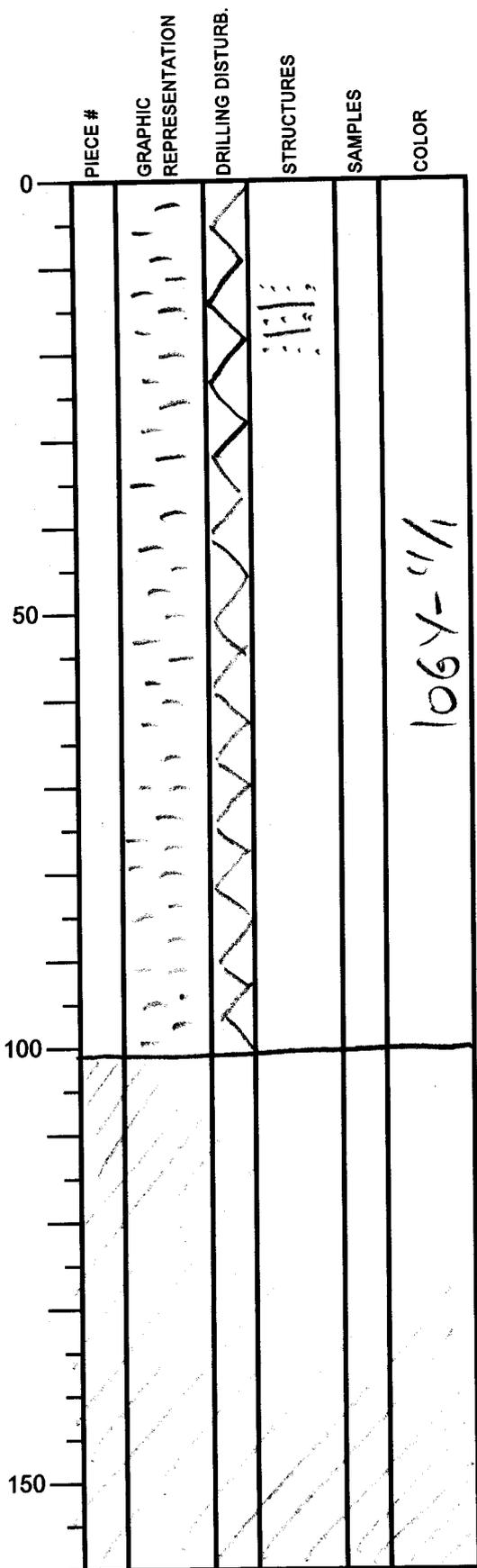
* Smear slide at 50cm

EOC = 141cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 498
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 26X
 SECTION: 7
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: J.L.

Dark purplish gray clay
 comprising pink color
 banding in the upper part -
 severely disturbed during
 drilling.

EOC = 101cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 499
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C0011 D
 CORE: 26 X
 SECTION: CC
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: faL.

EOC = 25 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 500
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 27X
 SECTION: 01
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: S Gas

Silty clay.
 Below 40cm there appears to be an increase in silt content compared with 27X-02.

Integrated Ocean Drilling Program

Visual Core Description

NO. 501
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 27X
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

Silty clay.

Ash, silt sized.

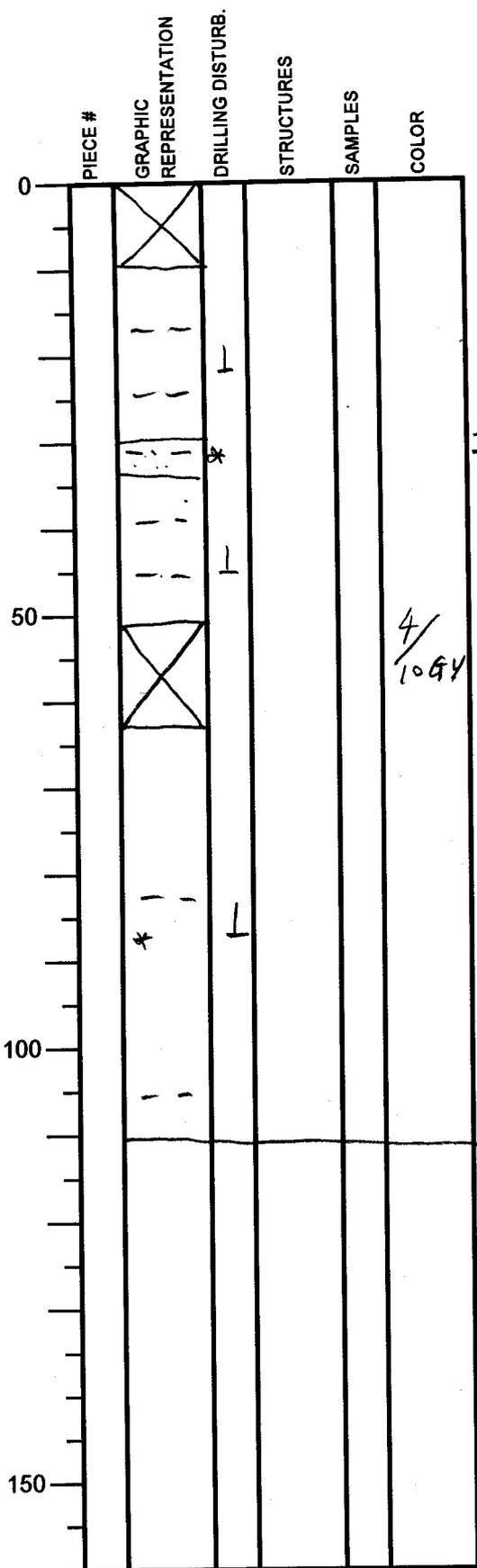
-SS
(122cm)
Silty clay.

Integrated Ocean Drilling Program

Visual Core Description

NO. 502
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 27X
 SECTION: 04
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

silty clay.

— ss — Ash layer,
 (32cm) light colored

4/
 1094 silty clay

— ss
 (87cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 503
 DATE: 25/12/2010
 EXP.: 332
 SITE/HOLE: C0011D
 CORE: 27X
 SECTION: 05
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

silty clay.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 504
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 27X
 SECTION: 06
 TOP DEPTH (m CSF):

OBSERVER: S Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
		X				4/104Y
50						
100						
150						

SECTION DESCRIPTION

The same as
 27X-05 section.

Integrated Ocean Drilling Program Visual Core Description

NO. 506
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: Coo11g
 CORE: 28K
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: T. MVES

SECTION DESCRIPTION

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50		-	-			
100	13	X	X			
150	M1	-	-			

log
4/2

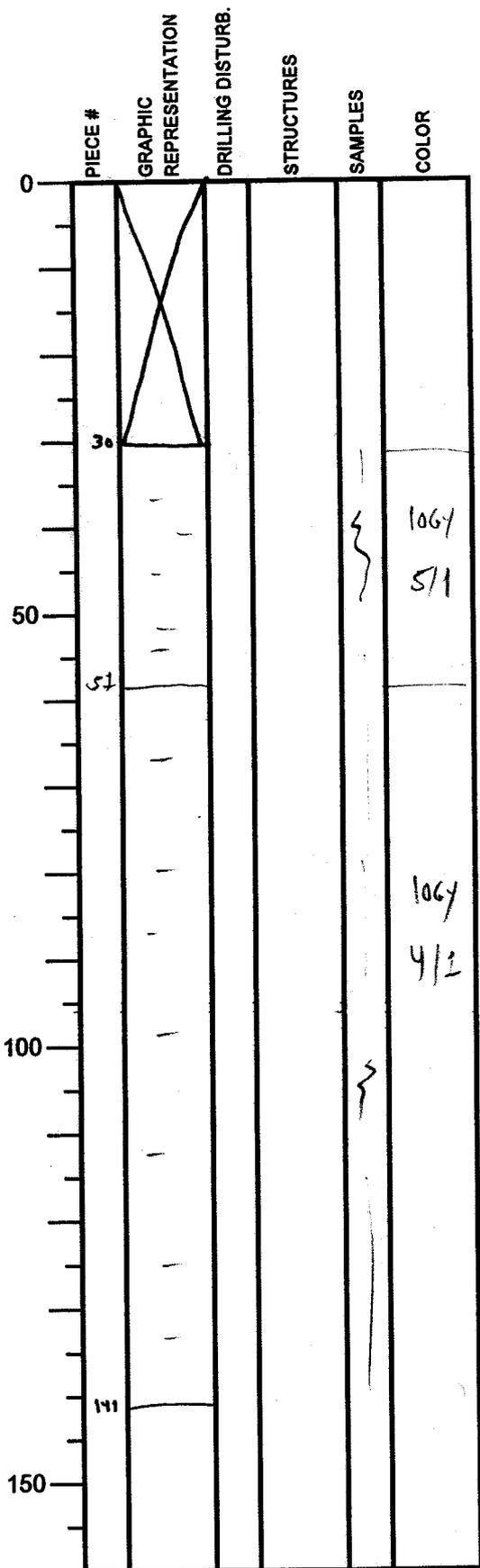
clay. Disturbed by drilling

Integrated Ocean Drilling Program

Visual Core Description

NO. 507
 DATE: 25/12/2010
 EXP.: J33
 SITE/HOLE: COO11D
 CORE: 20K
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: T. ALVES



SECTION DESCRIPTION

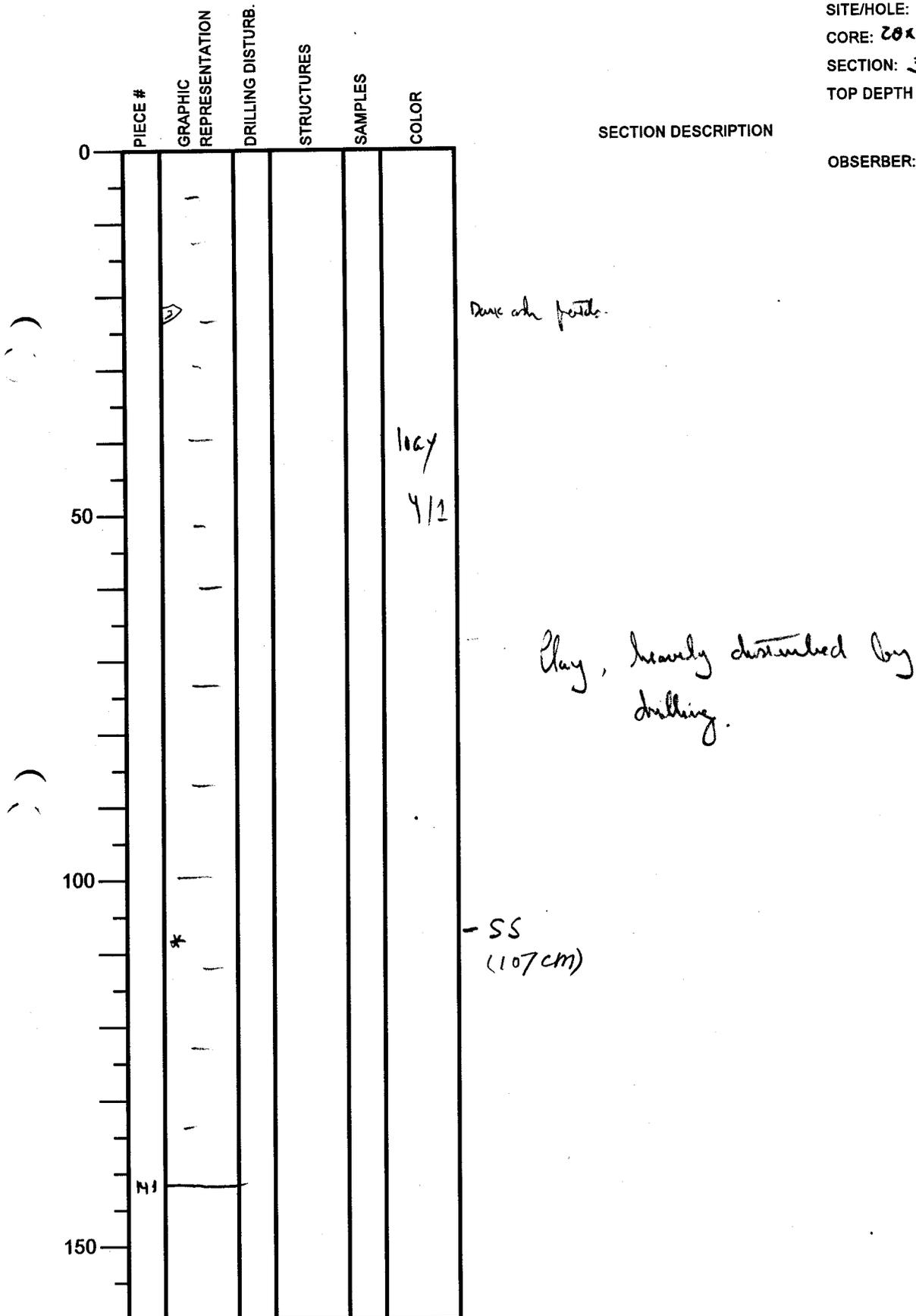
SS (52cm)

Clay, heavily disturbed by drilling.

Integrated Ocean Drilling Program Visual Core Description

NO. 508
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: CO11D
 CORE: 20x
 SECTION: 3
 TOP DEPTH (m CSF):

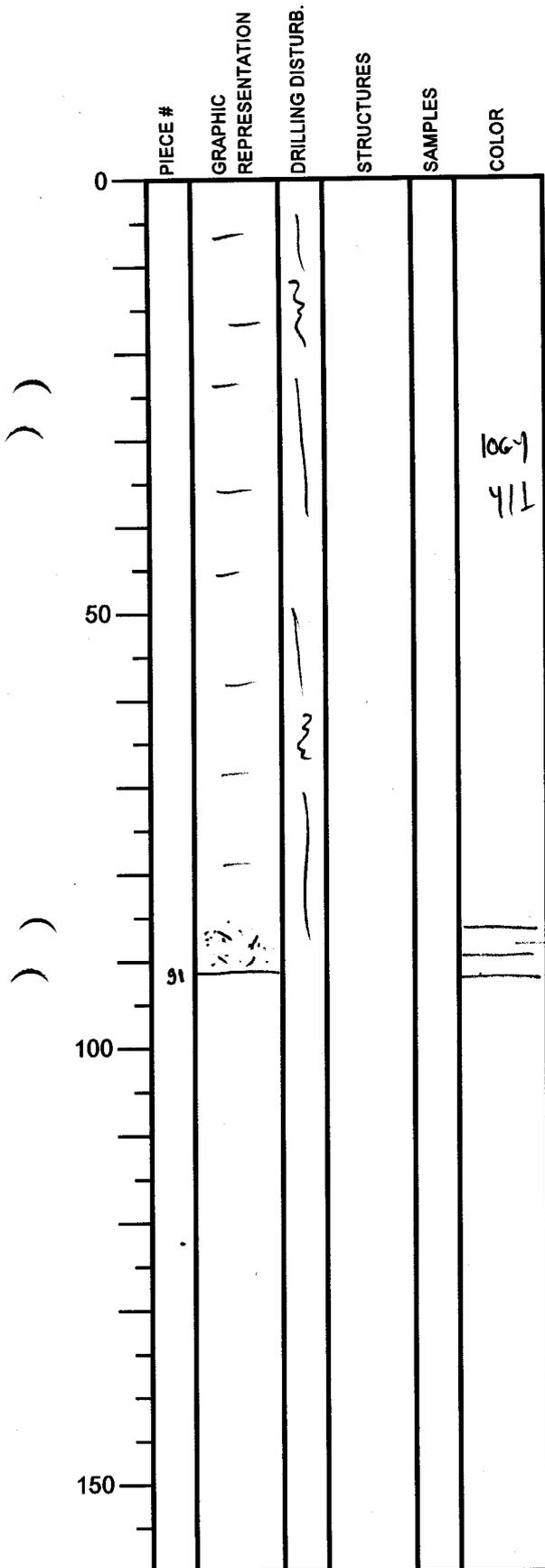
OBSERVER: T. ALVES



Integrated Ocean Drilling Program Visual Core Description

NO. 509
 DATE: 8/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 20x
 SECTION: 4
 TOP DEPTH (m CSF):

OBSERVER: T. ALVES



SECTION DESCRIPTION

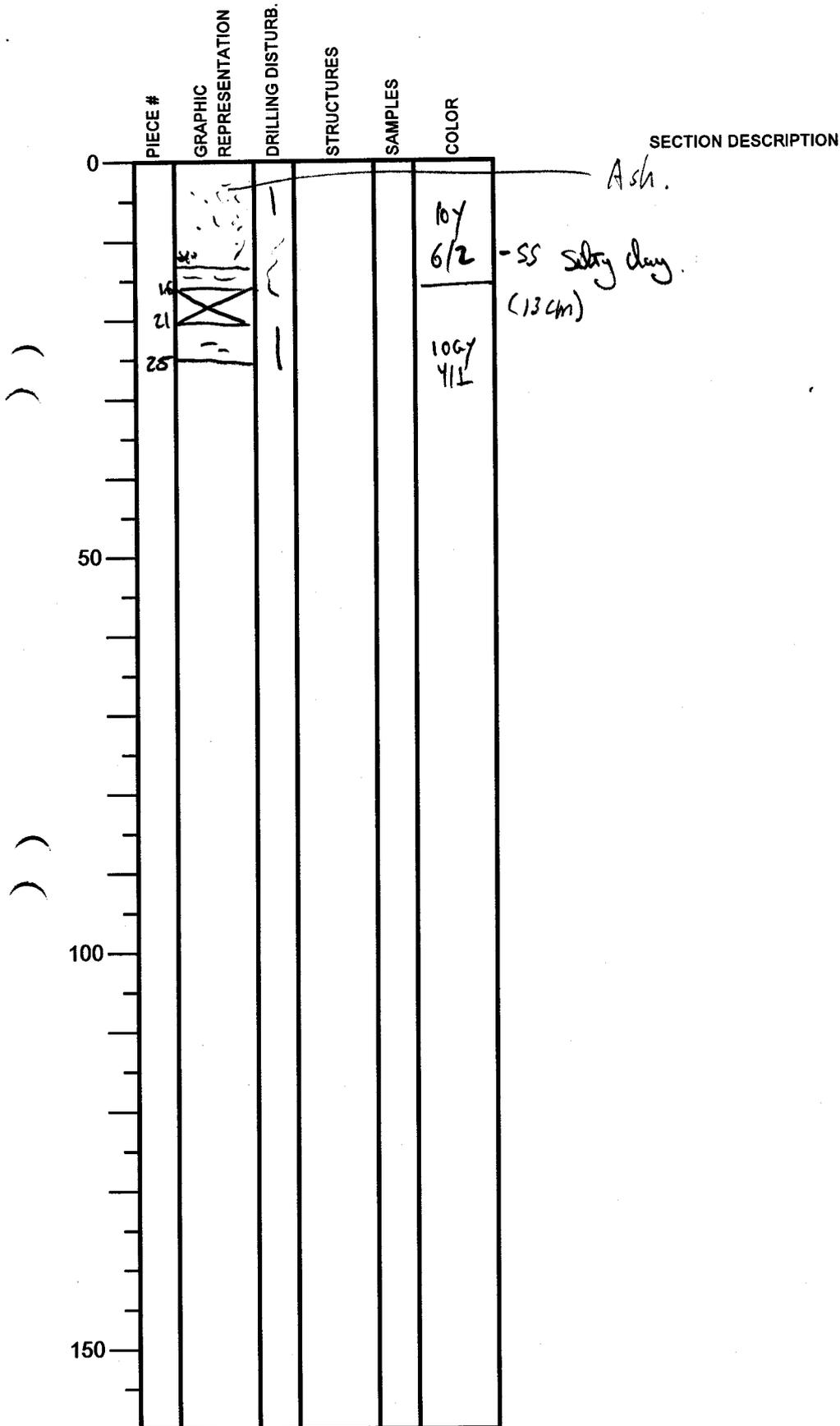
Clay. Heavily disturbed by drilling

ash

Integrated Ocean Drilling Program Visual Core Description

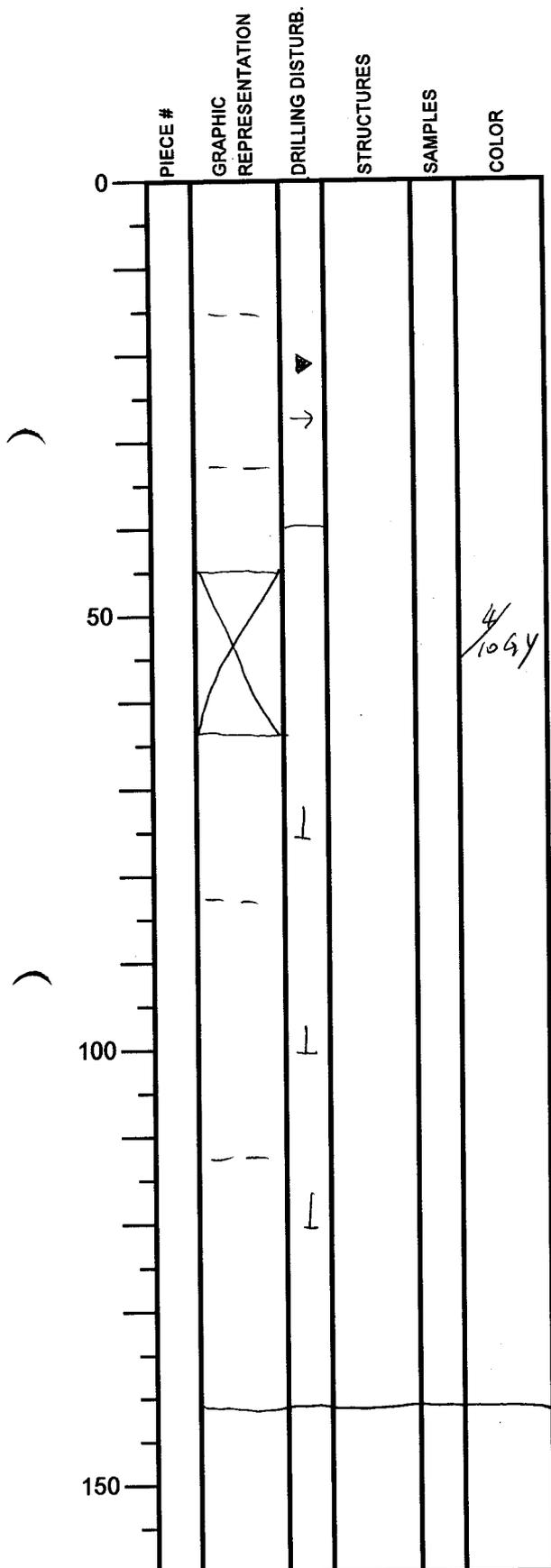
NO. 510
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 28x
 SECTION: CC
 TOP DEPTH (m CSF):

OBSERVER: J. Alves



Integrated Ocean Drilling Program Visual Core Description

NO. 511
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 29X
 SECTION: 01
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

silty clay

OBSERVER: *S Gao*

4/106y

Integrated Ocean Drilling Program Visual Core Description

NO. 512
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 29X
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: SGao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						4 / 6.6Y
100						
150						

SECTION DESCRIPTION

The same as
 29X-01,

Integrated Ocean Drilling Program Visual Core Description

NO. 513
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 29X
 SECTION: 03
 TOP DEPTH (m CSF):

OBSERVER: S Gao

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
50					4/10gy
66.5	*			3/10gy	SS (66.5 cm)
83	*				SS (83 cm)
100					
150					

SECTION DESCRIPTION

The same as 29X-01, except an ash (larger (dark colored) is present at 63-67 cm.

Integrated Ocean Drilling Program Visual Core Description

NO. 514
 DATE: 25/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 29X
 SECTION: 05
 TOP DEPTH (m CSF):

OBSERVER: S Gas

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

SECTION DESCRIPTION

The same as
29X-02 section.

Integrated Ocean Drilling Program Visual Core Description

NO. 515
 DATE: 25/12/2010
 EXP.: 338
 SITE/HOLE: C0011D
 CORE: 29X
 SECTION: CC-AA
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
50	X	▲ →			4/1064
100					
150					

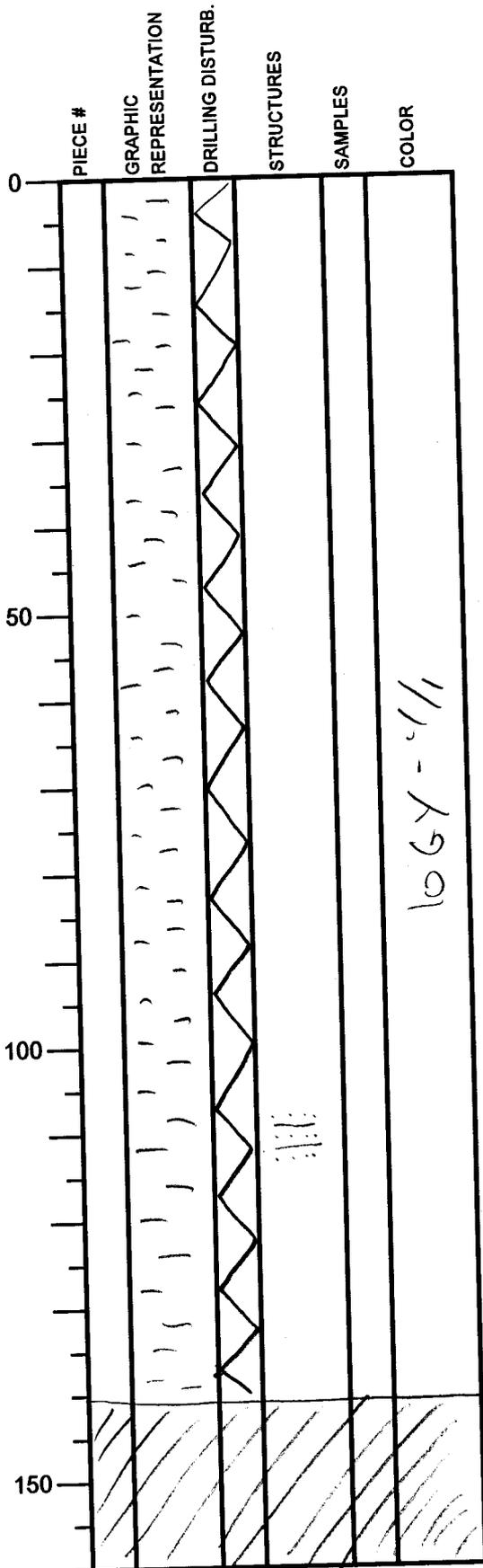
SECTION DESCRIPTION

Silty clay.

OBSERVER: S Geo

Integrated Ocean Drilling Program Visual Core Description

NO. 516
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 30X
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *Jal.*

Dark greenish gray clay
 heavily disturbed during
 drilling

111-10901

Faint color banding in the
 lower part of the section

EOC = 140 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 517
 DATE: 26/12/2010
 EXP.: 330
 SITE/HOLE: C00110
 CORE: 30 X
 SECTION: 2
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			/ / / / /			10Y-4/1
			/ / / / /			10Y-6/2
			/ / / / /			10Y-4/1
50			/ / / / /			10Y-6/2
			/ / / / /			10Y-4/1
			/ / / / /	●		Gray
			/ / / / /	●		10Y-4/1
100			/ / / / /	●		Gray
			/ / / / /			10Y-4/1
			/ / / / /			10Y-4/1
150			/ / / / /			10Y-4/1

SECTION DESCRIPTION

OBSERVER: Jan L

Olive gray

Gray clay, interbedded with two olive gray ash layers - heavily disturbed by drilling

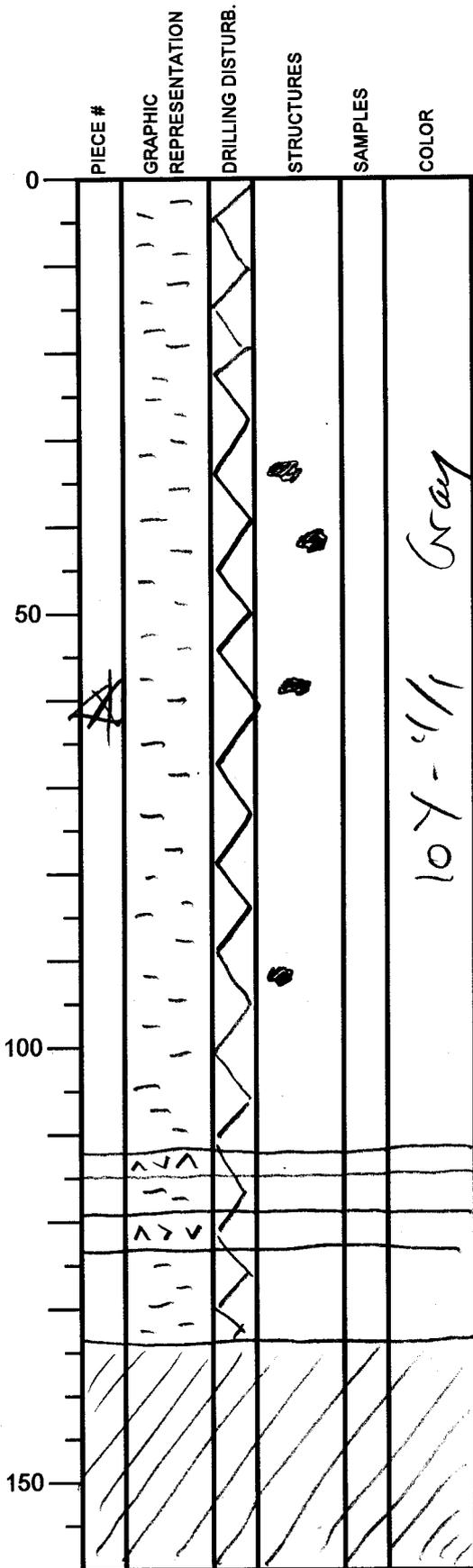
Faint color notations in some intervals

* Smear slide at 15 cm

EOC = 122.5 cm

Integrated Ocean Drilling Program
Visual Core Description

NO. 518
DATE: 26/12/2010
EXP.: 333
SITE/HOLE: C0011D
CORE: 30X
SECTION: 3
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: JAL

Gray clay, interbedded
are two thin olive gray
ash layers - heavily
disturbed by drilling

Faint color mottling in some
intervals.

~~at~~ Smear slide at 60 cm

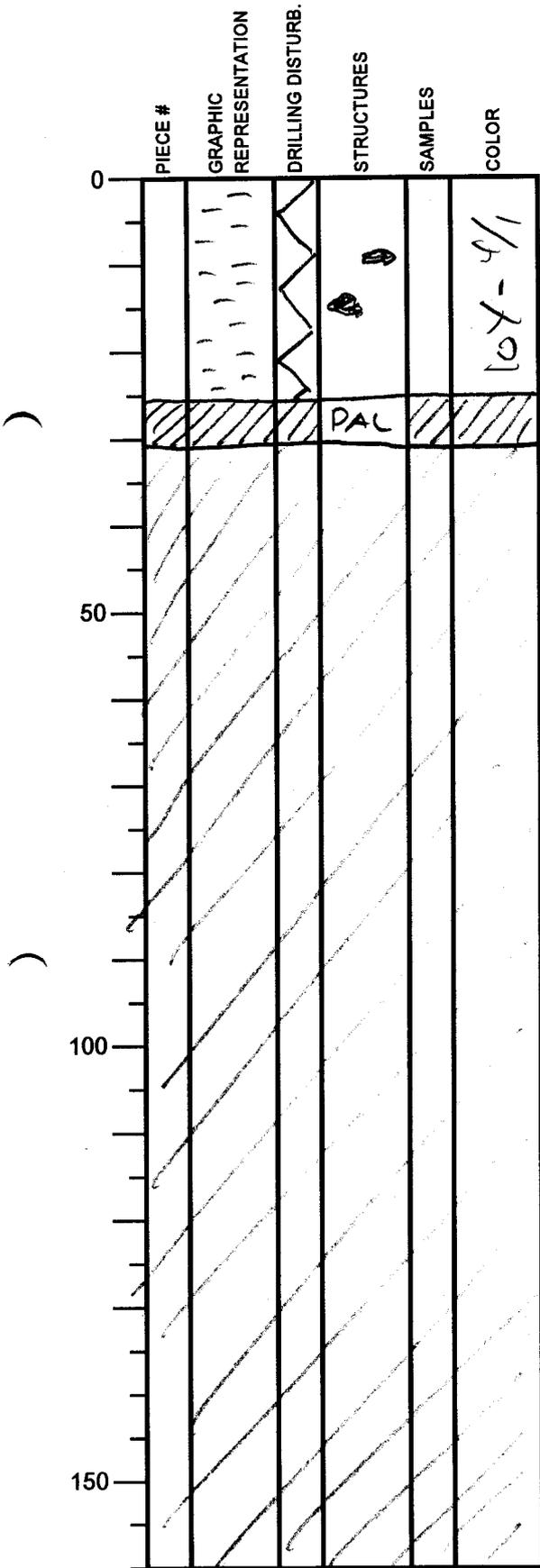
EOC = 133 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 519
 DATE: 26/12/20 10
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 30X
 SECTION: CC
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

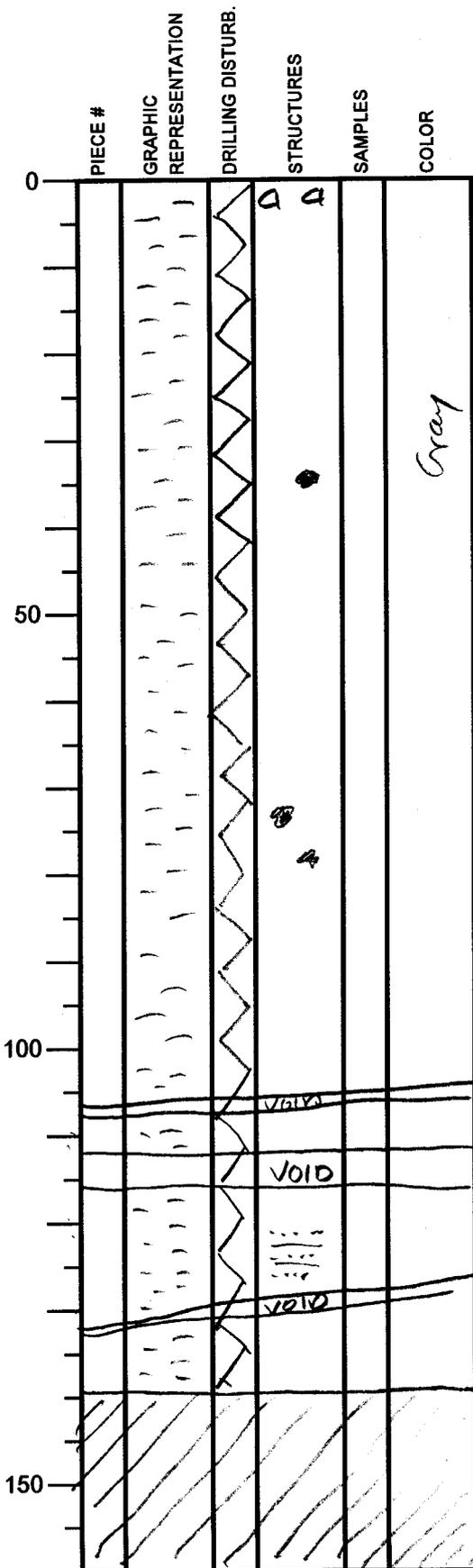
OBSERVER: *Jan L.*



EOC = 30.5cm

Integrated Ocean Drilling Program Visual Core Description

NO. 520
 DATE: 26/10/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 31X
 SECTION: 1
 TOP DEPTH (m CSF):



Patches of ash,
light gray

OBSERVER: *yal*

SECTION DESCRIPTION

Dark greenish gray - gray
 clay with some faint
 color mottling and
 banding - heavily
 disturbed during coring

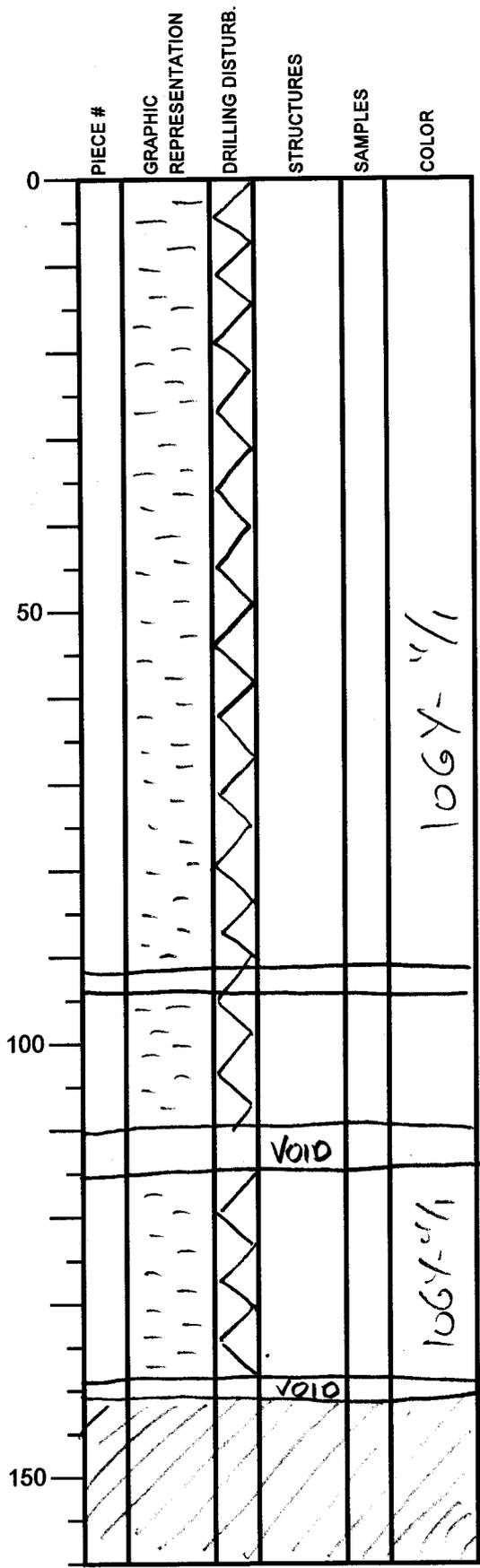
10Y-5/1
 10Y-7/1

Dark greenish gray

EOC = 139cm

Integrated Ocean Drilling Program Visual Core Description

NO. 521
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 31X
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: J. L.

Dark greenish gray clay
 and one gray-black ash
 layer heavily disturbed
 during coring

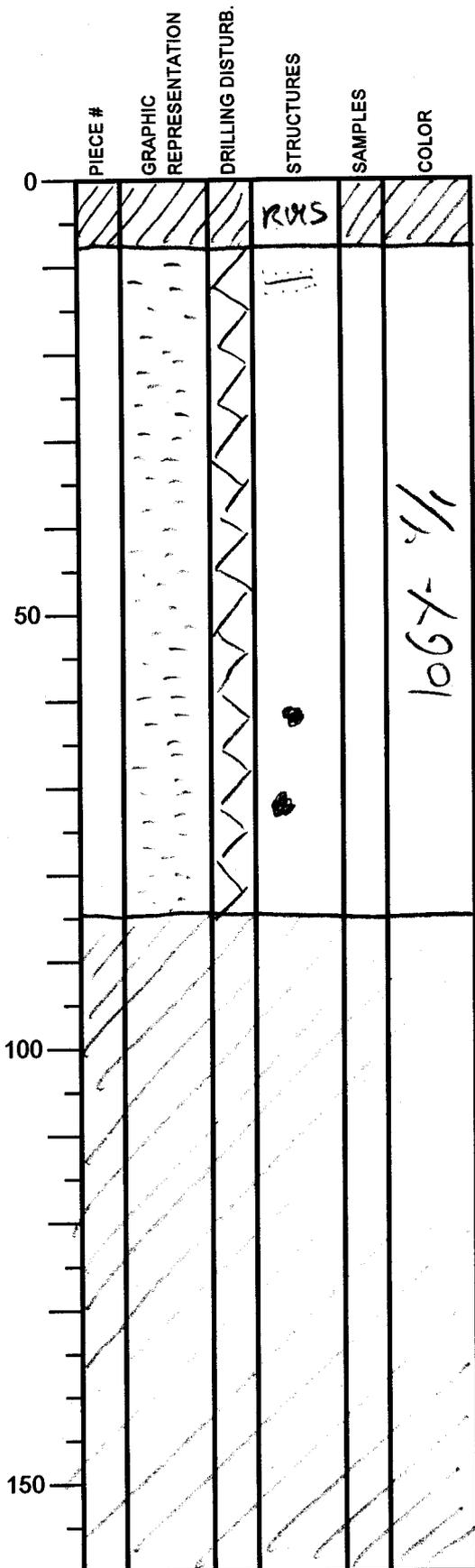
Ash layer, gray-black

EOC = 141 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 522
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: COO11 D
 CORE: 31 X
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: J. L.

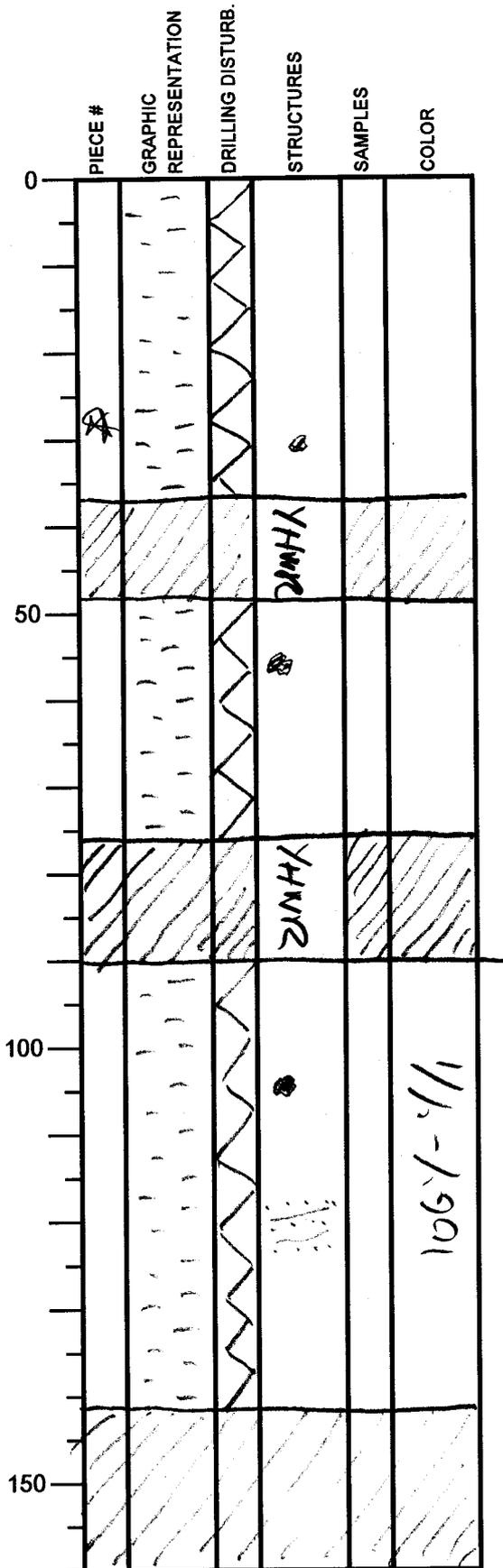
Dark greenish gray clay
 with some color mottling
 and banding - heavily
 disturbed during drilling.

EOC = 81.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 523
 DATE: 8/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 31X
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *gal*

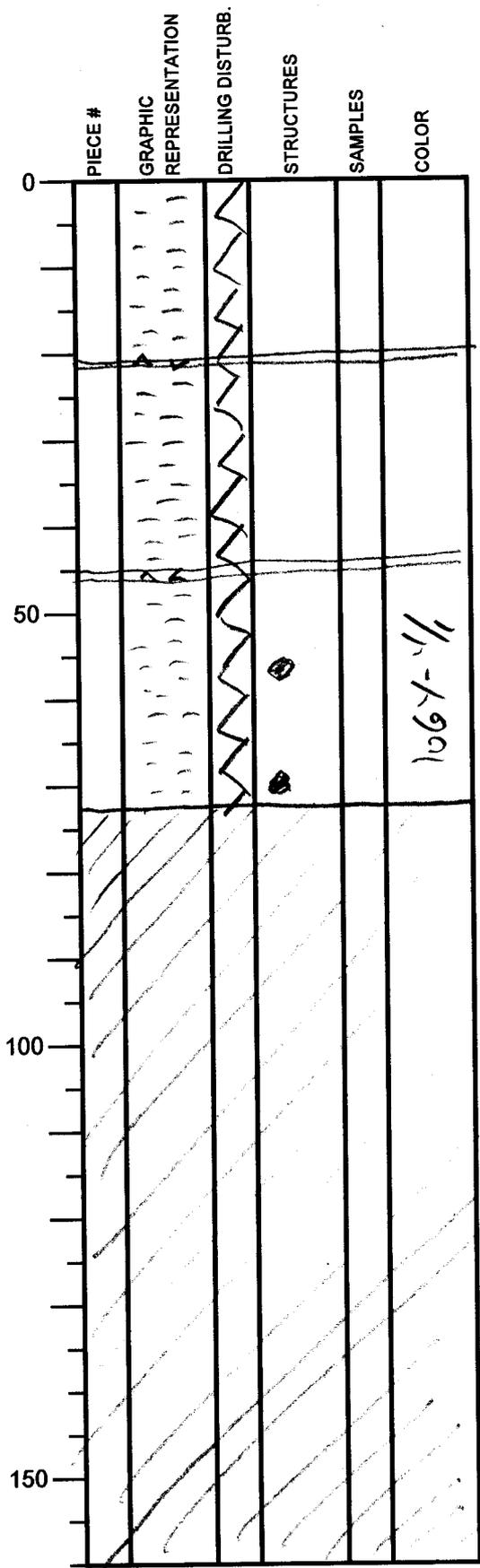
Dark greenish gray clay with some color mottling - heavily disturbed during drilling

* Smear slide at 27 cm and 126 cm.

EOC = 141.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 524
 DATE: 26/12/20 10
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 31X
 SECTION: 6
 TOP DEPTH (m CSF):



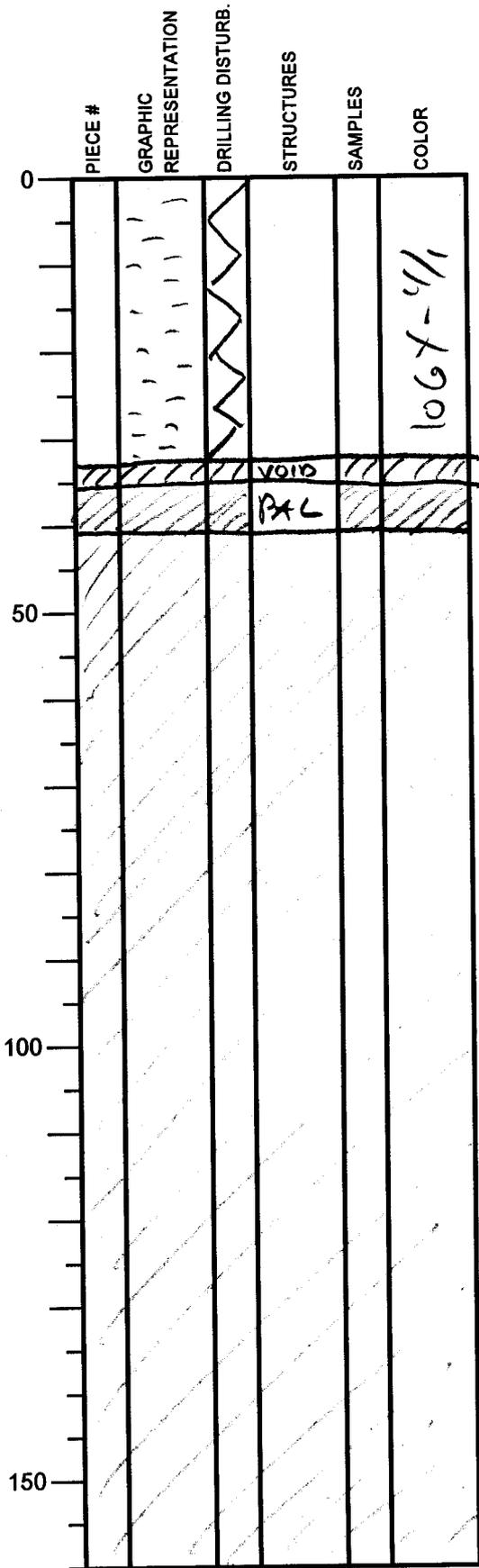
SECTION DESCRIPTION

OBSERVER: J. L.

EOC = 72.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 525
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011 D
 CORE: 31 X
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

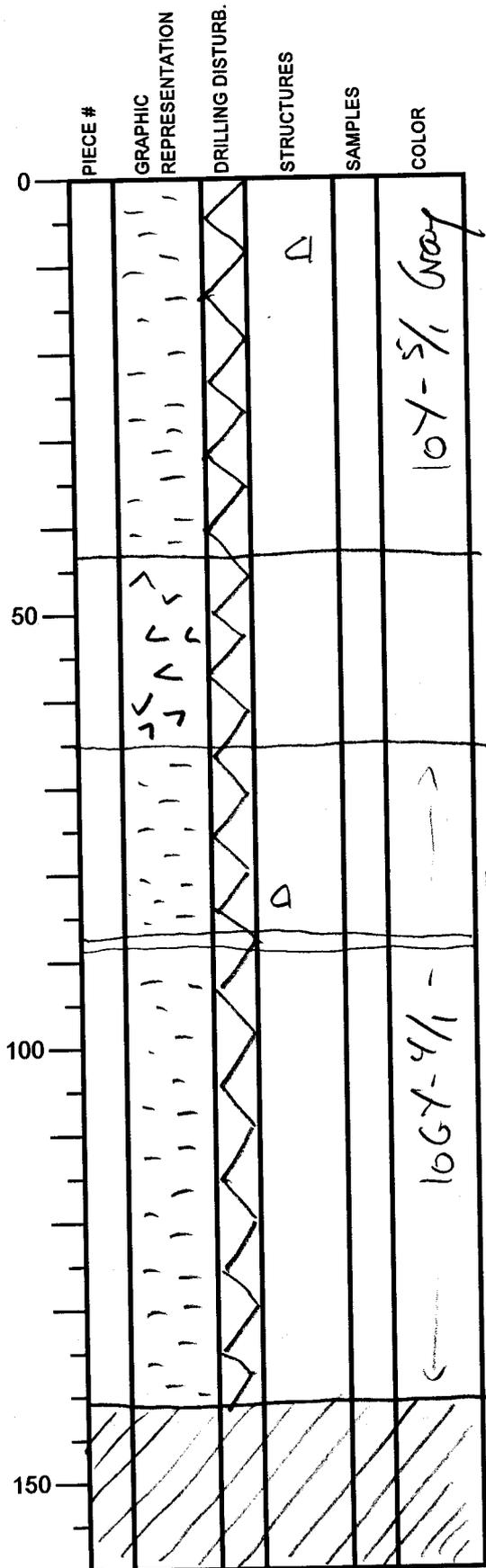
Gal.

EOC = 41 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 526
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011 D
 CORE: 32 X
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: J. C.

Patch of dark gray clay

Light grey ash layer, greenish at the base

Patch of dark gray clay
Green lamina with convoluted bedding in the lower part?

Dark greenish gray clay with some color banding at the base of the section, above an ash layer overlain by a gray clay.

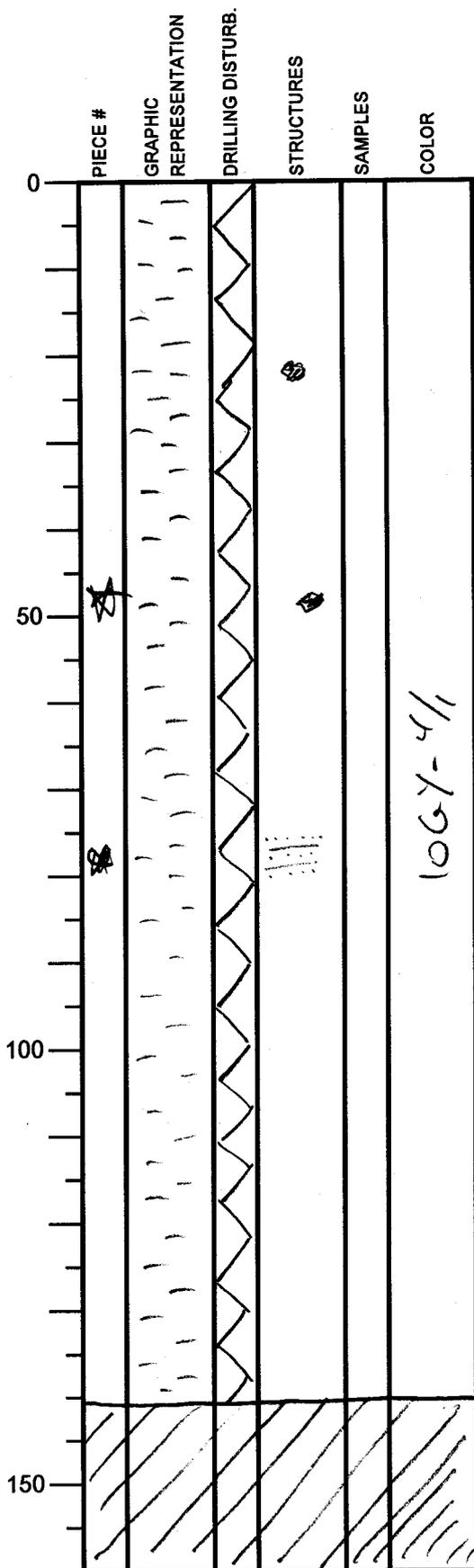
Heavily disturbed during drilling.

EOC = 140.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 527
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C00 11D
 CORE: 32 X
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: Y. L.



SECTION DESCRIPTION

Dark greenish gray clay with some mottling and color banding - heavily disturbed during drilling.

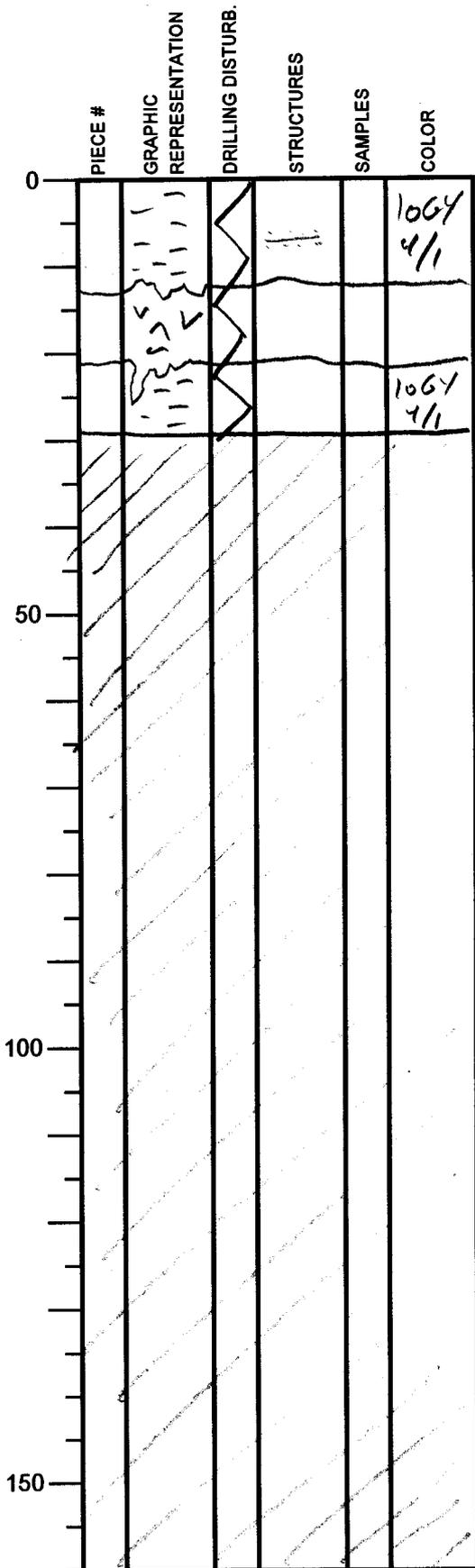
* Smear slides at 47 and 77 cm.

EOC = 141 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 528
 DATE: 8/18/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 32X
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

JAL.

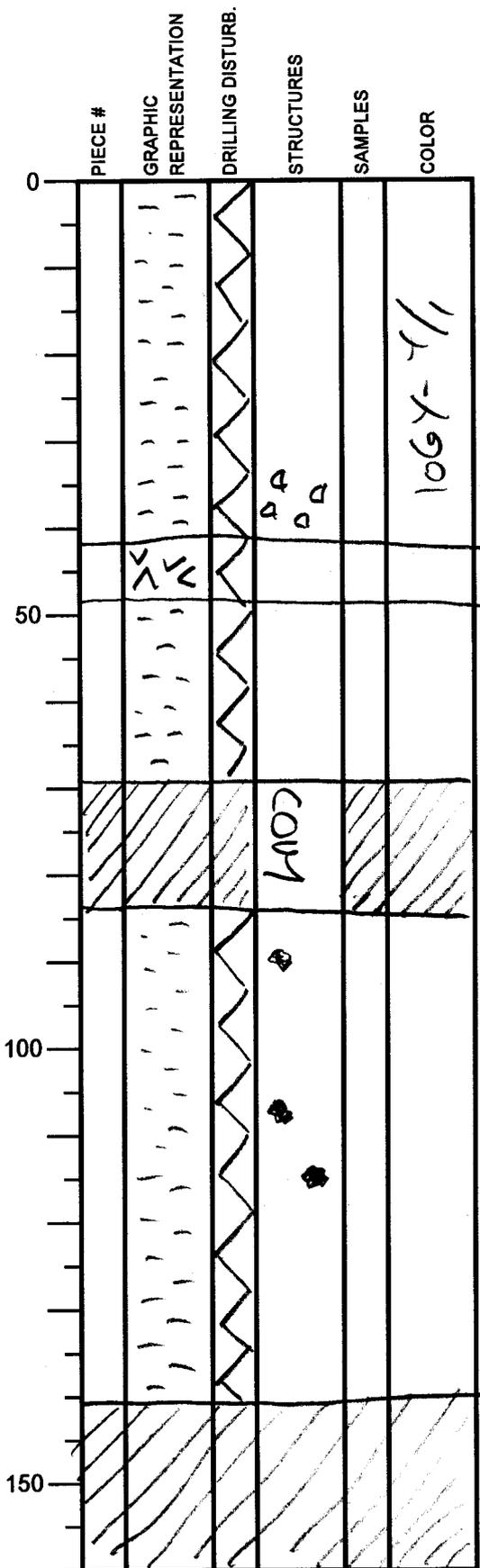
Dark brown ash layer, irregular base and top of this layer

EOC = 29 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 529
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 32X
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *J.L.*

Patches of black ash
 Layer of black ash

Dark greenish gray clay
 with some color mottling
 and a layer of black ash -
 heavily disturbed by coring

EOC = 141 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 530
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 32X
 SECTION: CC
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: *J. L.*

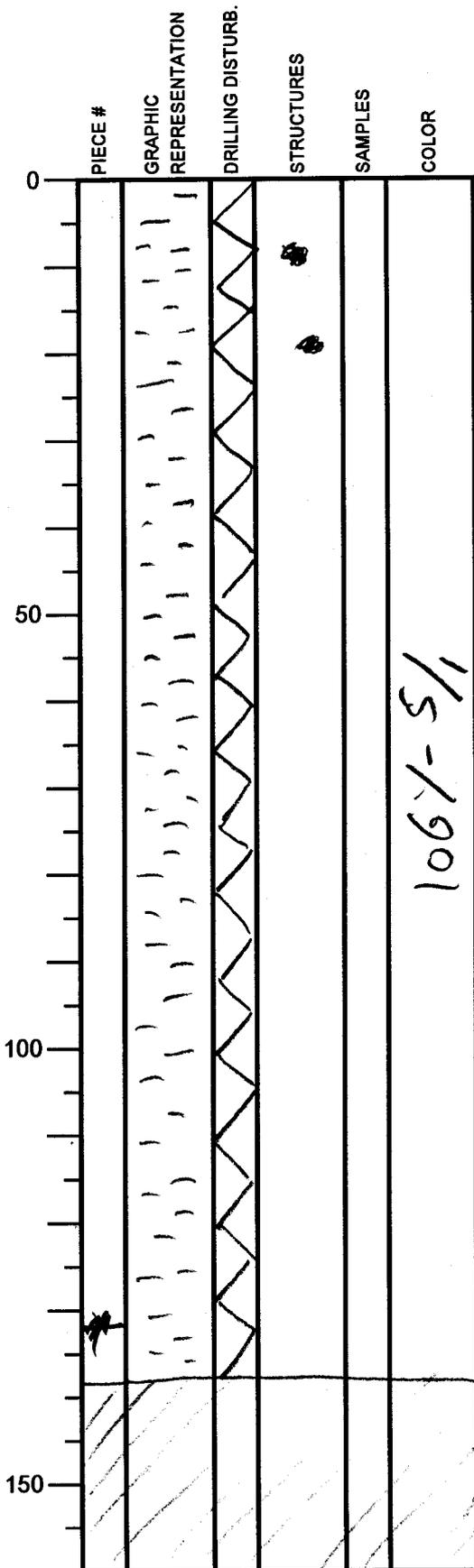
	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			/ / / / /			10G1 -4/1
		/ / / / /		PAL	/ / / / /	
50		/ / / / /				
100		/ / / / /				
150		/ / / / /				

EOC = 20.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 531
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 33X
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

fa L.

Greenish gray clay with some color mottling severely disturbed during drilling.

106Y-1.901

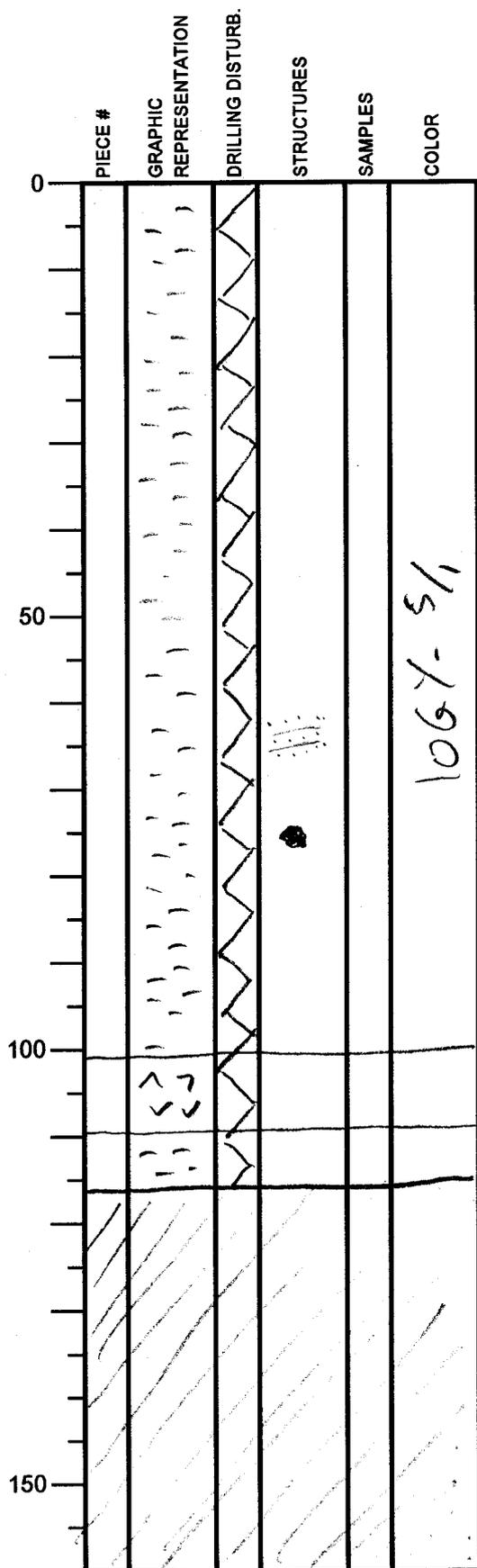
** Smear slide at 131cm*

EOC = 138.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 532
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 33X
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

Jan L.

Greenish gray clay and a interbedded light gray ash layer - heavily disturbed by drilling.

Light gray ash layer

1067-5/1

EOC = 116.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 533
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 33X
 SECTION: 4
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			a		1/5 - 1/901
50			COM		
100			a		1/5 - 1/901
150					

SECTION DESCRIPTION

OBSERVER:

Patch of ash, black

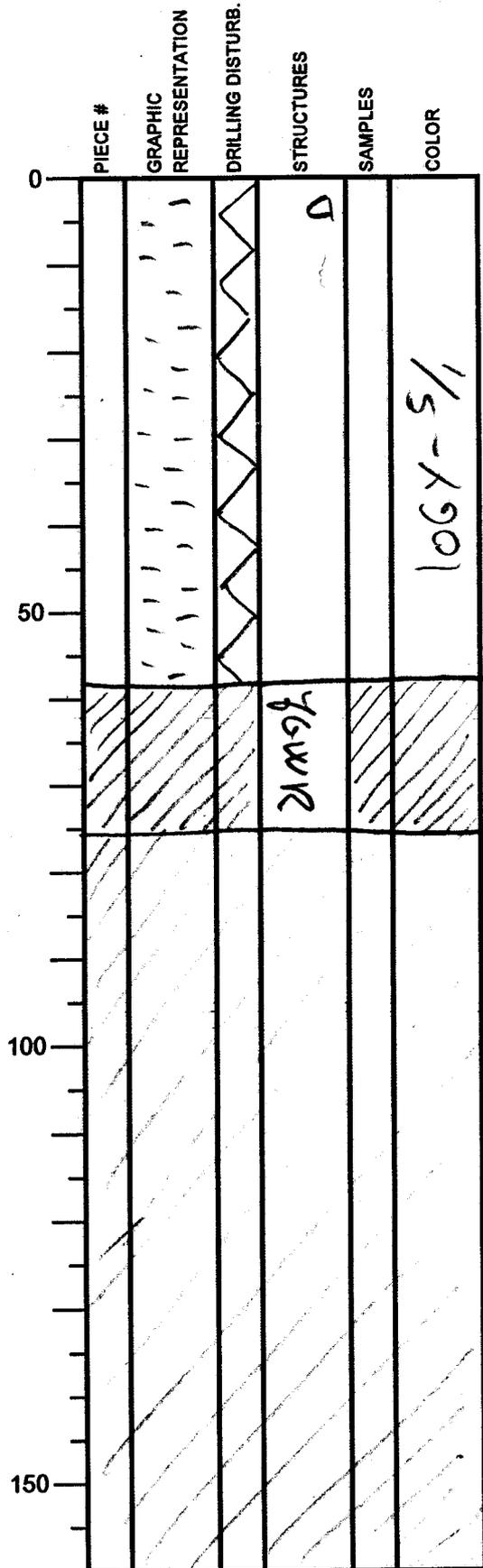
Patch of black ash

Greenish gray clay with some color banding and patches of ash - heavily disturbed during coring.

EOC = 140 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 534
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 33X
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

Patch of black ash

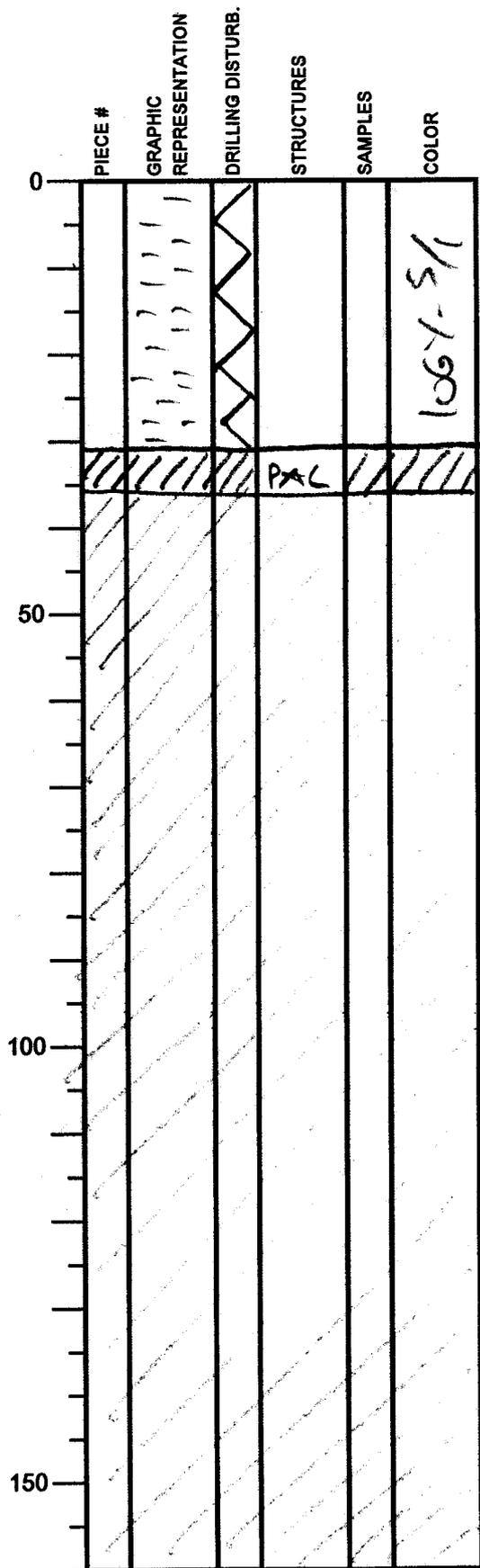
OBSERVER:

Jan L.

EOC = 75.5m

Integrated Ocean Drilling Program Visual Core Description

NO. **S35**
 DATE: **26/12/2010**
 EXP.: **333**
 SITE/HOLE: **C00110**
 CORE: **33X**
 SECTION: **CC**
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

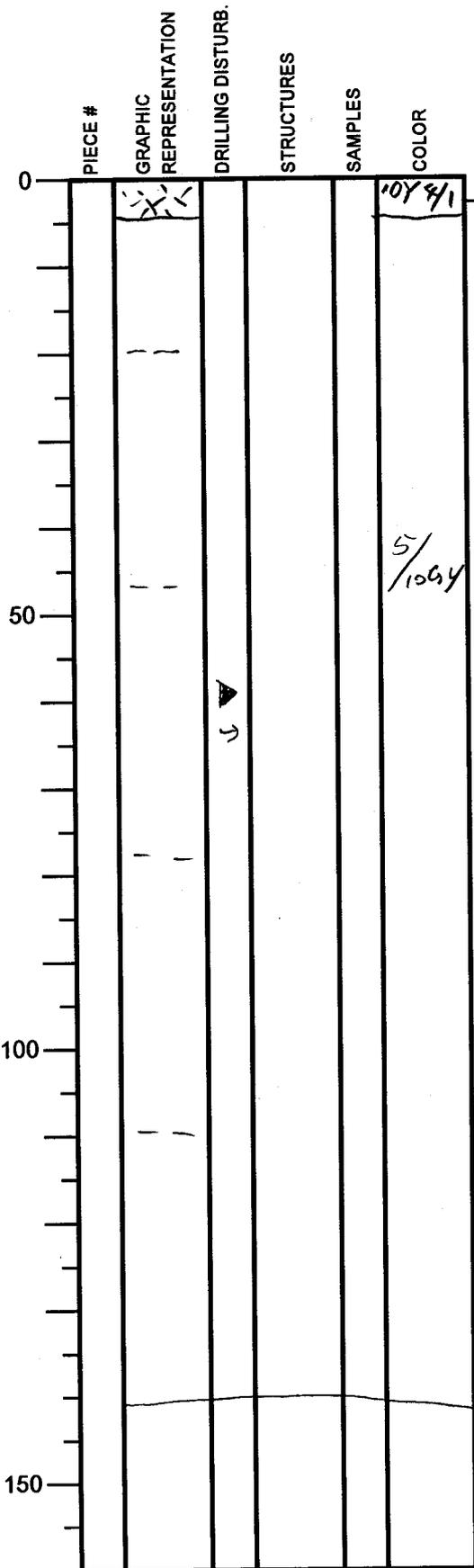
OBSERVER: *Jal*

EOC = 35.5m

Integrated Ocean Drilling Program

Visual Core Description

NO. 536
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 31X
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

SS (3cm) ~ v.f. ~ silt ash

OBSERVER: S Gao

Semiconsolidated
 silt-clay stone,
 with layered
 patterns. Heavily
 disturbed by drilling.

Integrated Ocean Drilling Program

Visual Core Description

NO. 537
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 34X
 SECTION: 02
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: S Gao

The same lithology
as 34X-01.

5/
106y

Integrated Ocean Drilling Program

Visual Core Description

NO. 538
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 34X
 SECTION: 03
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50		(;)	▼ ↘			5/ 10GY
100		(;)				
150		(;)				

SECTION DESCRIPTION

The same as
34X-01.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 539
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 34X
 SECTION: 05
 TOP DEPTH (m CSF):

OBSERVER: S Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						5/1069
100						
150						

SECTION DESCRIPTION

The same as
 34X-01.

SS (114cm)

Integrated Ocean Drilling Program Visual Core Description

NO. 540
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 34X
 SECTION: 06
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

The same as
34X-01.

Integrated Ocean Drilling Program Visual Core Description

NO. 541
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 34X
 SECTION: CC-AA
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as
34X-01.

OBSERVER: S Gas

Integrated Ocean Drilling Program

Visual Core Description

NO. 542
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 35X
 SECTION: 01
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

Semi-consolidated
 mudstone, with
 dark (green) layers
 and ash at 70-72cm.

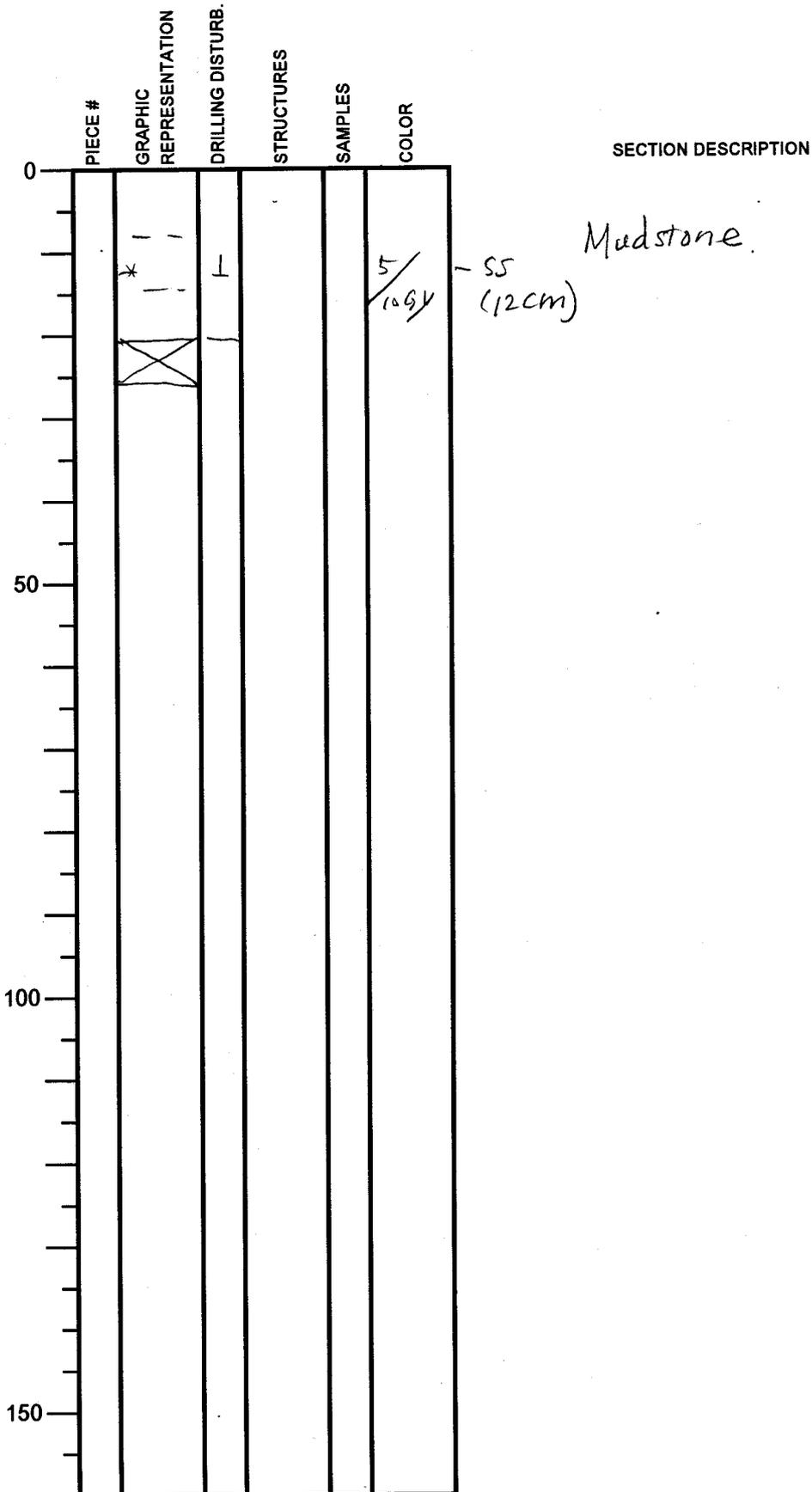
OBSERVER: S Gao

- SS (71.5cm)

Integrated Ocean Drilling Program Visual Core Description

NO. 543
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 35X
 SECTION: CC-AA
 TOP DEPTH (m CSF):

OBSERVER: S Gas



Integrated Ocean Drilling Program

Visual Core Description

NO. 544
 DATE: 26/10/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 36X
 SECTION: 01
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: S Gao

Semi-consolidated
 mudstone, with
 chaotic internal
 structures (including
 mud clasts, distorted
bedding, etc.)

↓

'shallow' marine mudstone. Bioturbation.
 shelly and clasts

Integrated Ocean Drilling Program

Visual Core Description

NO. 545
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C001D
 CORE: 36X
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: SGao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50		- - -		@		
100		- - -		@		5/100g
150		- - -		S		
		- - -		@		

SECTION DESCRIPTION

The same as
 36X-01 section.

Integrated Ocean Drilling Program Visual Core Description

NO. 546
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 36X
 SECTION: 03
 TOP DEPTH (m CSF):

OBSERVER: S Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				⊙		
50				⊙		5/106y
100				⊙		
150				⊙		

SECTION DESCRIPTION

The same as
36X-01 section.

* Smear slide at 66cm.

Integrated Ocean Drilling Program Visual Core Description

NO. 547
 DATE: 26/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 36X
 SECTION: 04
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

The same as
36X-01 section.

Integrated Ocean Drilling Program

Visual Core Description

NO. 548
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 36X
 SECTION: 6
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				()		
50				 △ △ ⊙		10GY-5/1
100				 ▲ ⊙		
150						/ / / / /

SECTION DESCRIPTION

OBSERVER: *gal.*

Dark grey - green (at the base) ash layer

↳ "Parallel" lamination or shear zone?

Thin ash layer

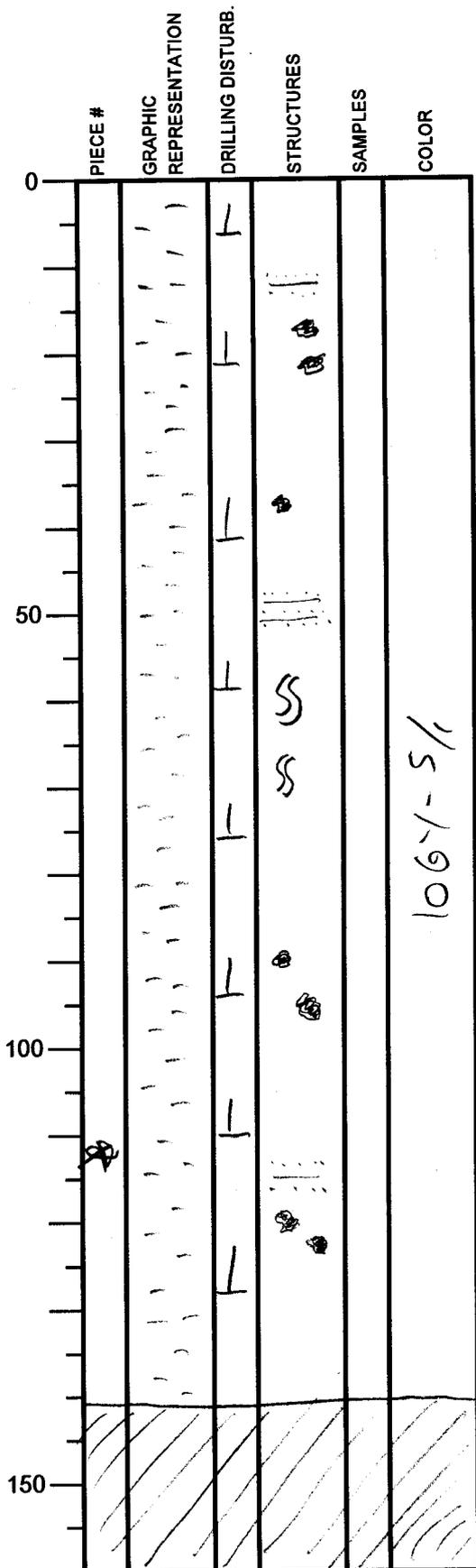
Semi-consolidated mudstone with some parallel lamination and color mottling and a few ash layers - disturbed during drilling

EOC = 1411cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 549
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 36X
 SECTION: 7
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: J. L.

Semi-consolidated mudstone with some color banding and mottling - indicating slight-moderate disturbance

Disturbed during drilling

* Smear slide at 111.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 550
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 36X
 SECTION: 8
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						106X-5/1
75						
100						
150						

SECTION DESCRIPTION

OBSERVER: *fa L.*

Color banding, deformed

Color mottling

Color banding

Semi-consolidated mudstone
 with some color banding
 and color mottling indicating
 some bioturbation

Disturbed during drilling

EOC = 112 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 551
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 36X
 SECTION: CC
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			L	SS		
		^ ^				
			L	● ●		
			L	●		
50				PAL		
100		(Diagonal hatching)				
150		(Diagonal hatching)				

SECTION DESCRIPTION

Bioturbation?
 Black ash layer, disturbed
 Some color mottling

OBSERVER:

JAL

EOC = 51 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 552
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011 D
 CORE: 37X
 SECTION: 1
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			/ / / / /	⊙		
			/ / / / /	VOID		
			/ / / / /	⊙		
50			/ / / / /	⊙		1064-5/1
			/ / / / /	⊙		
			/ / / / /	S		
100			/ / / / /	COM		
			/ / / / /	COM		
150			/ / / / /			

SECTION DESCRIPTION

OBSERVER:

J. L.

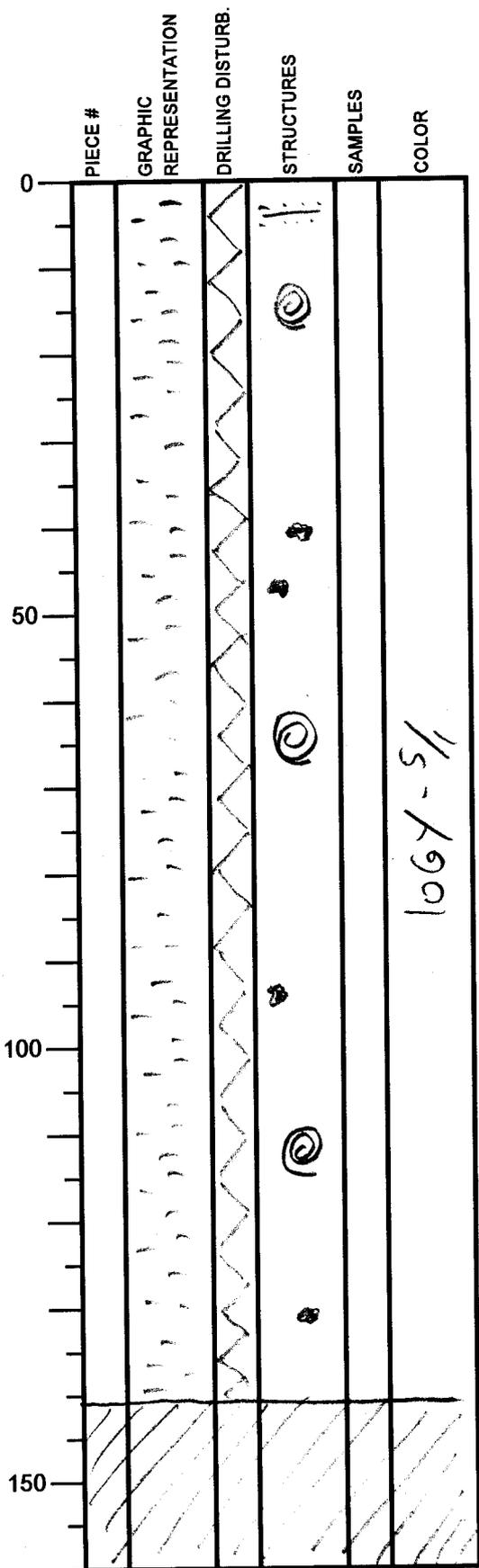
Semi-consolidated
 greenish gray mudstone
 with chaotic bedding due
 to heavy disturbance from
 drilling.

EOC = 138 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 553
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 37X
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

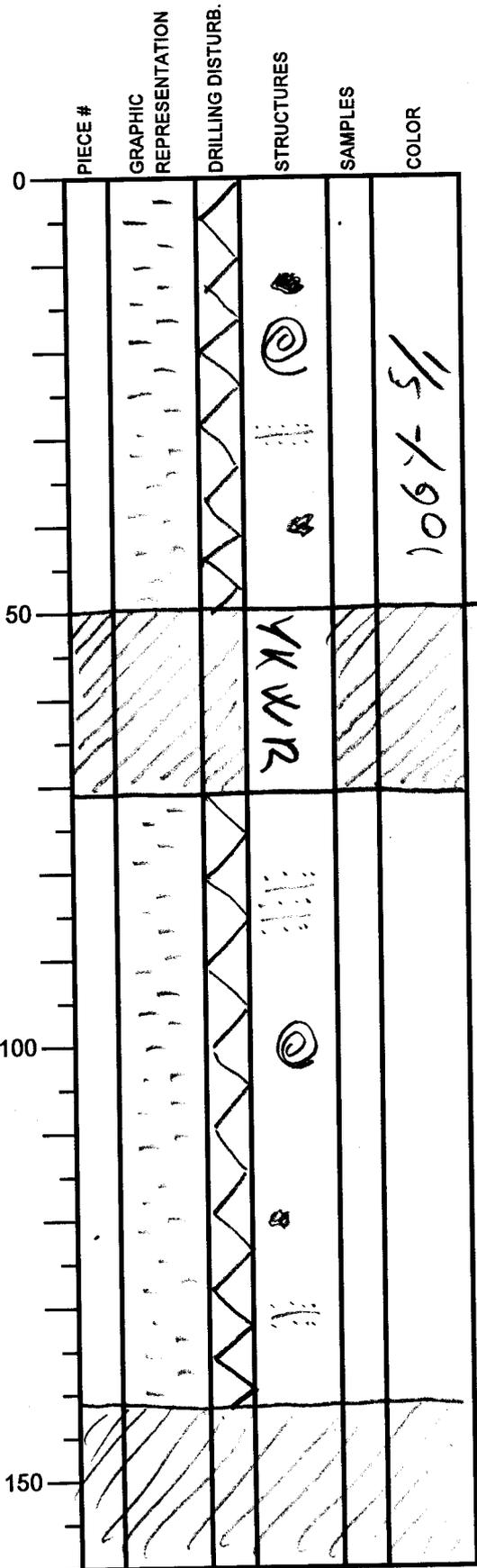
OBSERVER: *Ja L.*

Semi-consolidated greenish gray mudstone with chaotic bedding but some levels of color banding and nothing can be identified - heavily disturbed by drilling.

EOC 2 141 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 554
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 37X
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: JAL.

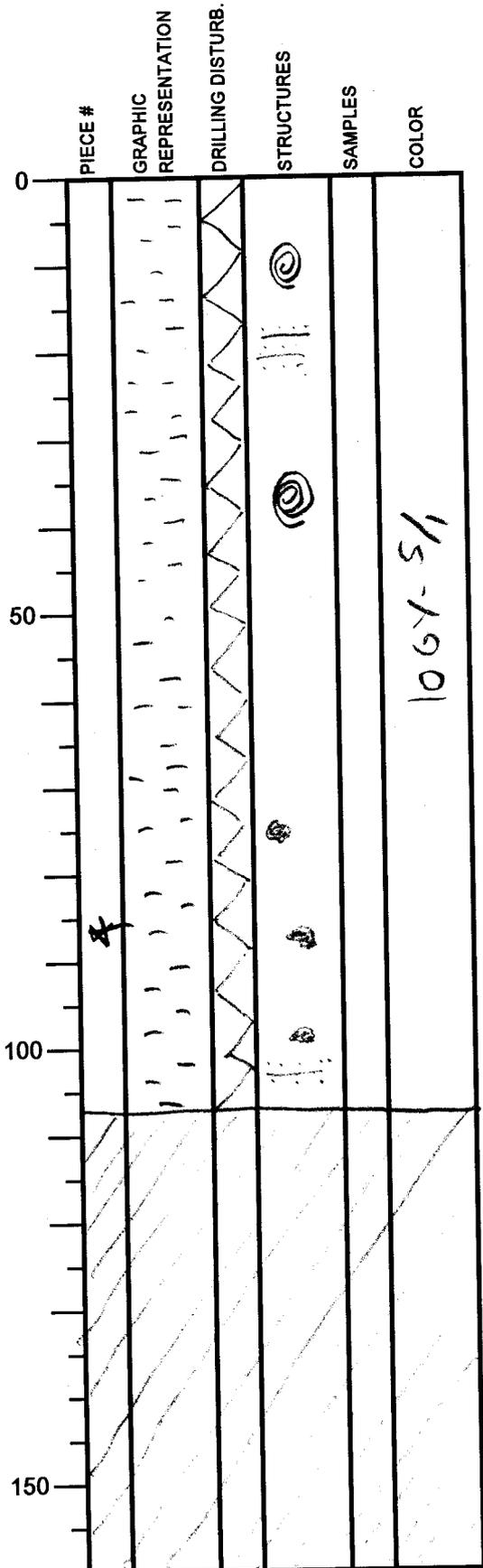
Same as above

EOC = 141.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 555
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 37X
 SECTION: S
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: J. L.

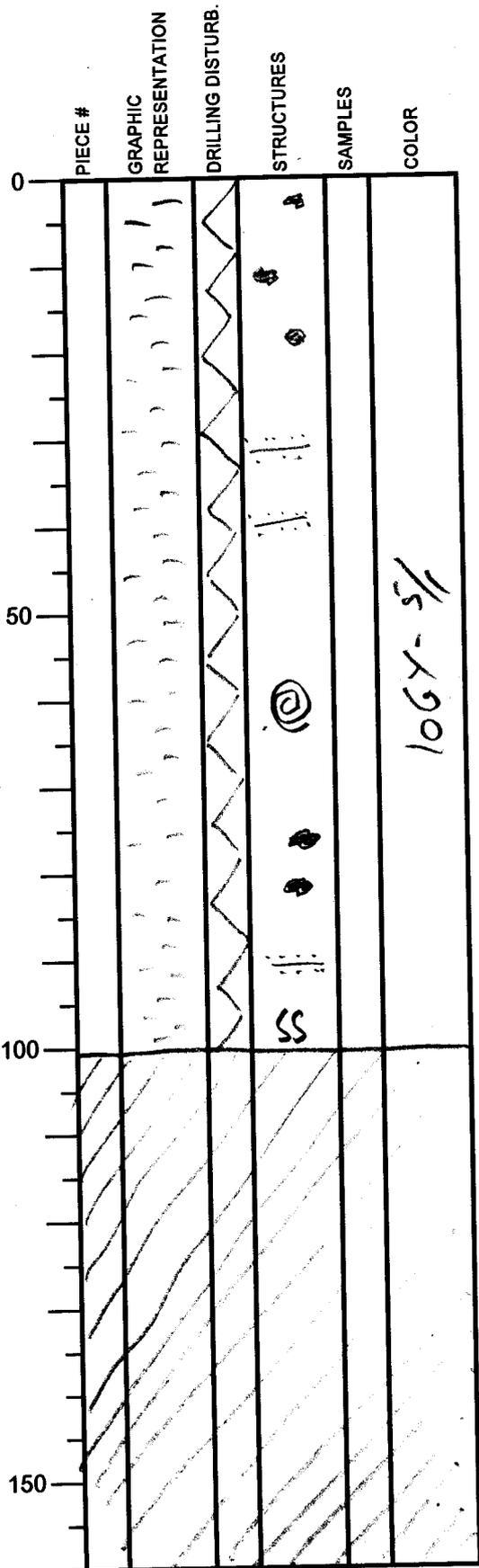
Semi-consolidated greenish gray mudstone with chaotic bedding - some color mottling and bedding can be identified
 - heavily disturbed during drilling

* Smear slide at 86 cm

COC = 107.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 356
 DATE: 27/2/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 37X
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

fa L.

Same as above

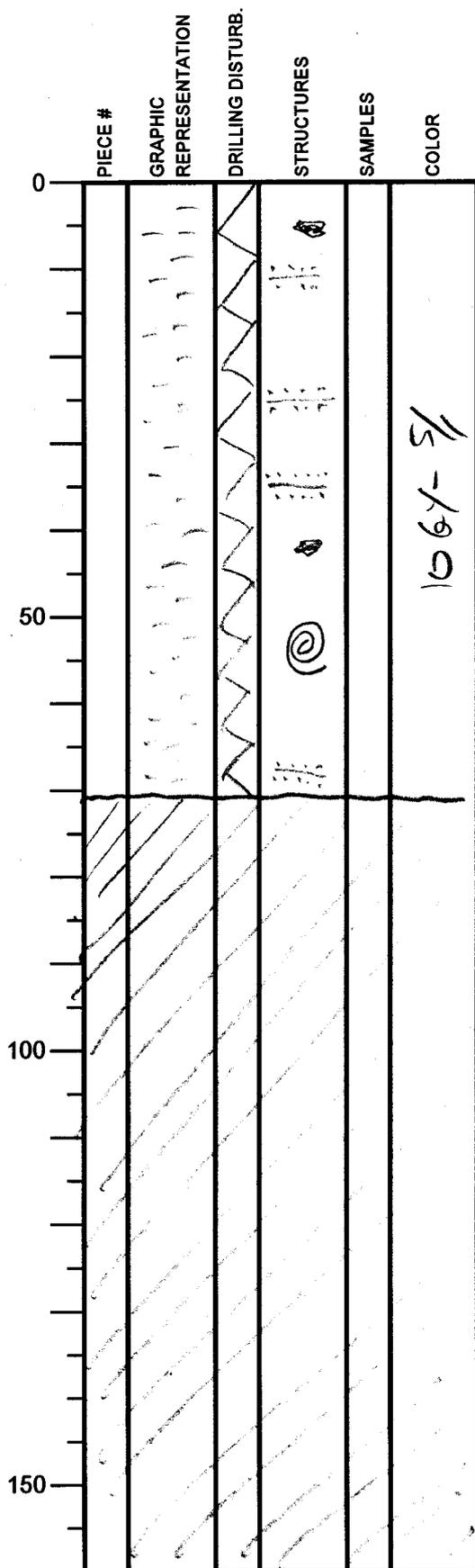
log Y-5/1

EOC = 100.5cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 557
 DATE: 27/12/20 10
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 37X
 SECTION: 7
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *J. L.*

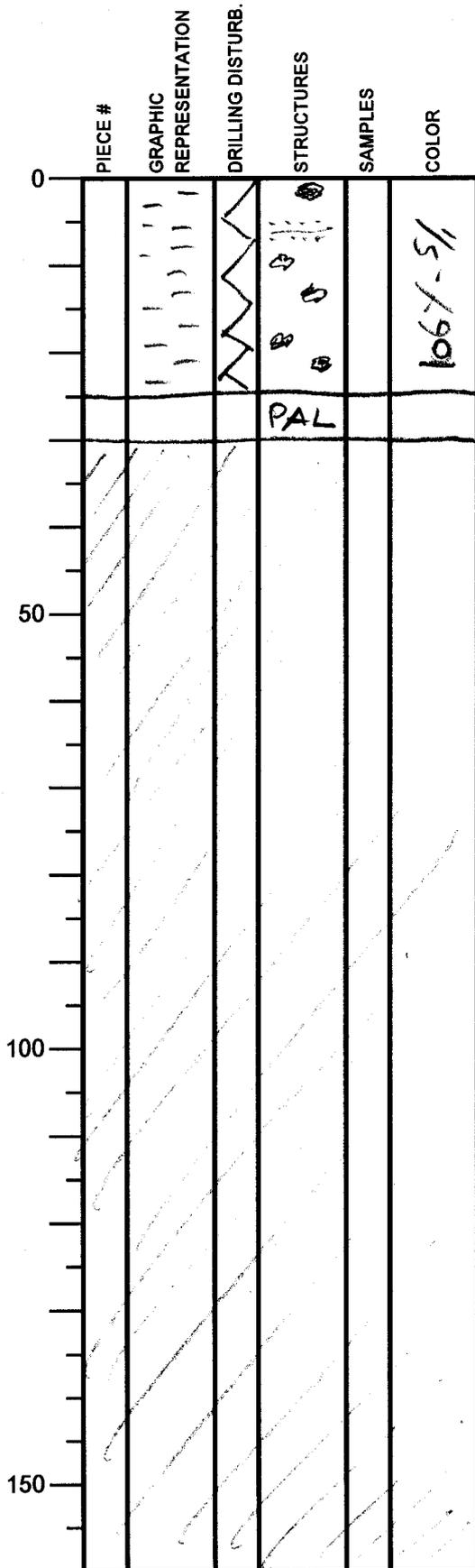
Same as above

EOC = 70.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 558
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: COO10
 CORE: 377
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

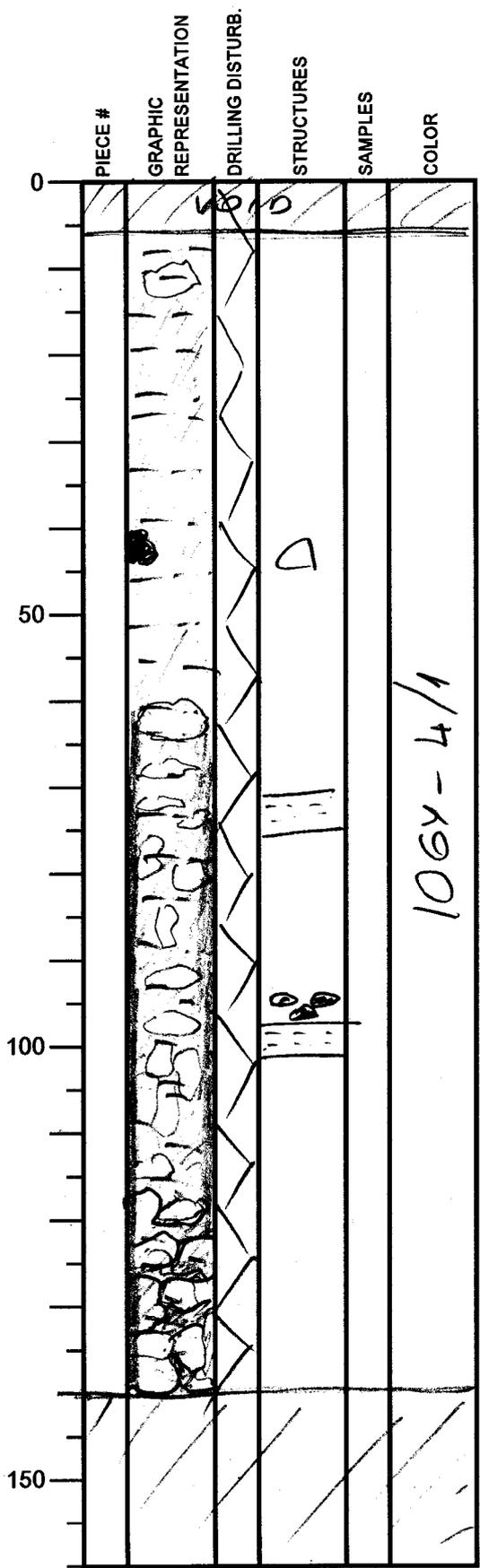
OBSERVER: *fa L.*

EOC = 30 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 359
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 38X
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

Loay-Sotoguchi-Jen

Patch of Ash in fractured zone

10GY-4/1

color mottling

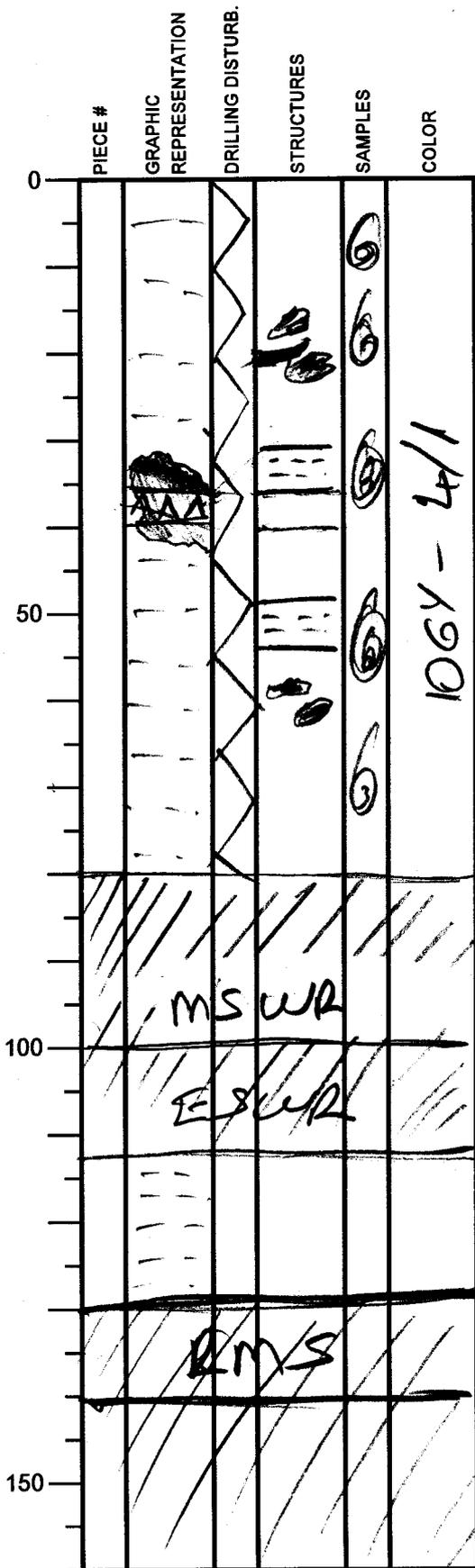
Dark Greenish gray mud stone, affected by high fractured drilling disturbance.

I can't see any bioturbation.

Integrated Ocean Drilling Program

Visual Core Description

NO. 560
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0011-0
 CORE: 38X
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

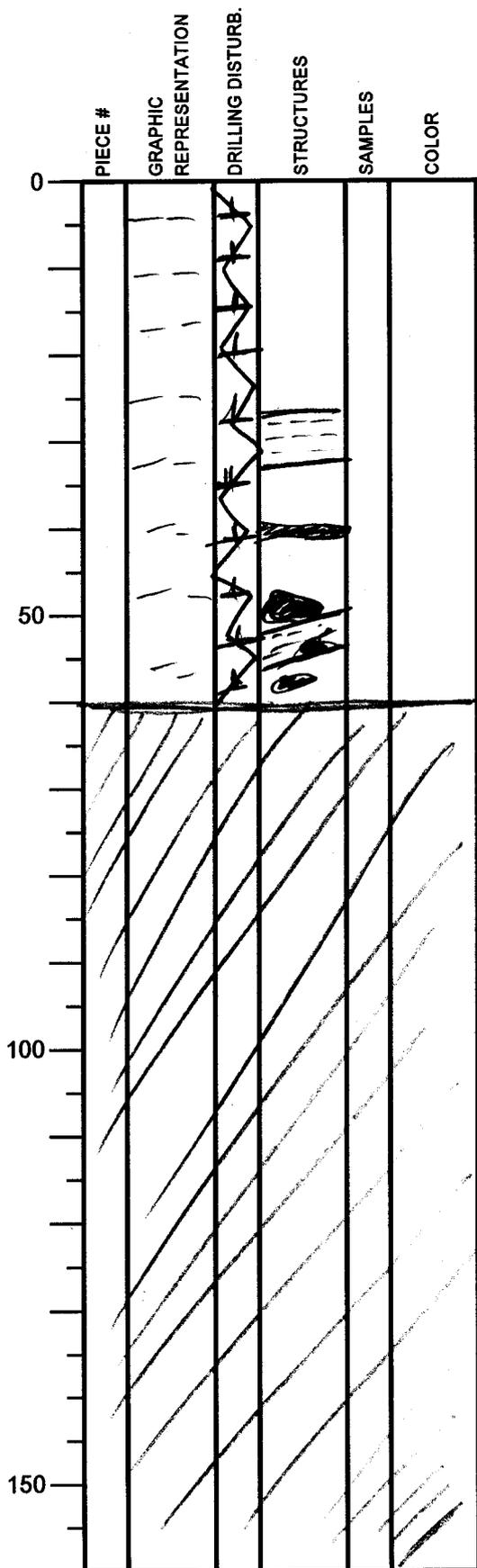
color matchings *Lorey-Satoguchi-Jen*
 Patch of minor lithology (PY)?

Dark Greenish gray mudstone
 moderately (semi) consolidated.
 highly fractured drilling disturbance.

Integrated Ocean Drilling Program

Visual Core Description

NO. 561
 DATE: 29/12/2010
 EXP.: 332
 SITE/HOLE: C0011-0
 CORE: 38x
 SECTION: 4
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

Loray - Jan

*(Py?) patch of minor lithology
color mottling*

*Dark greenish gray mudstone
has high fractured drilling disturbance*

*Color bandings and mottlings were
observed.*

*At around 40cm, A blackish gray
thin (3-4 mm) layer was seen.
thickness*

Semi consolidated clay-mudstone,

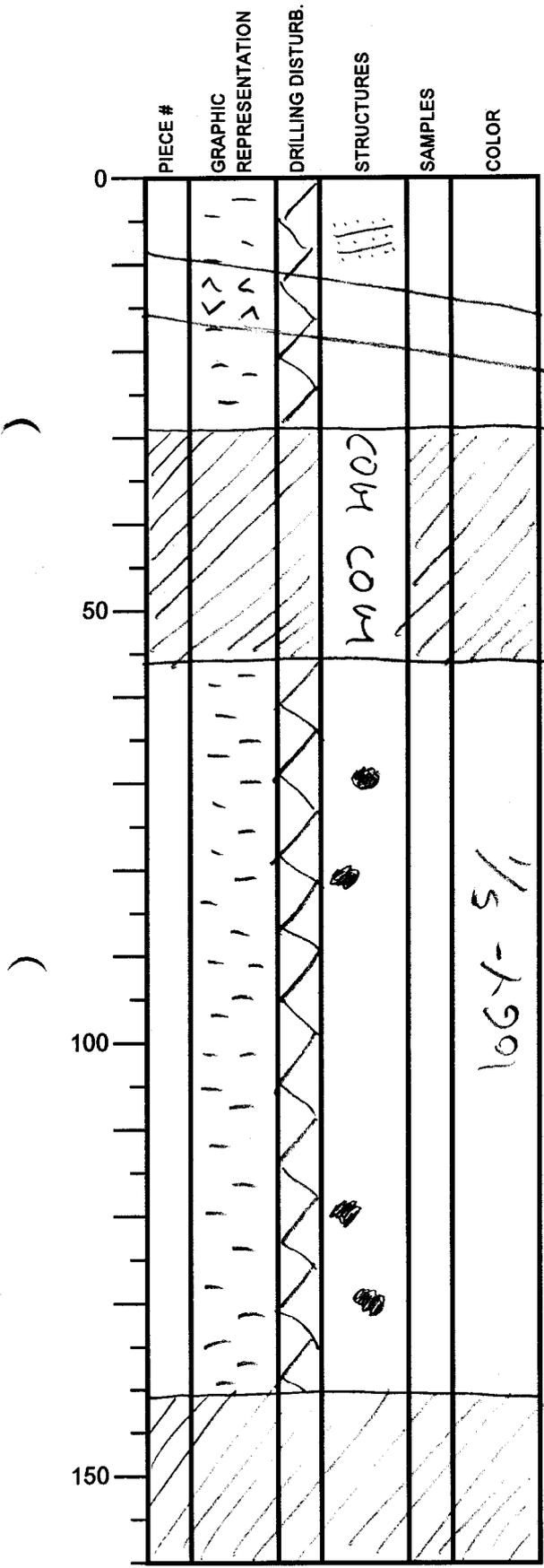
Integrated Ocean Drilling Program

Visual Core Description

NO. 562
 DATE: 2/21/2000
 EXP.: 37
 SITE/HOLE: COO11-D
 CORE: 38X
 SECTION: 5
 TOP DEPTH (m CSF):

OBSERVER:

JCL



SECTION DESCRIPTION

Ash layer

shear zone ?

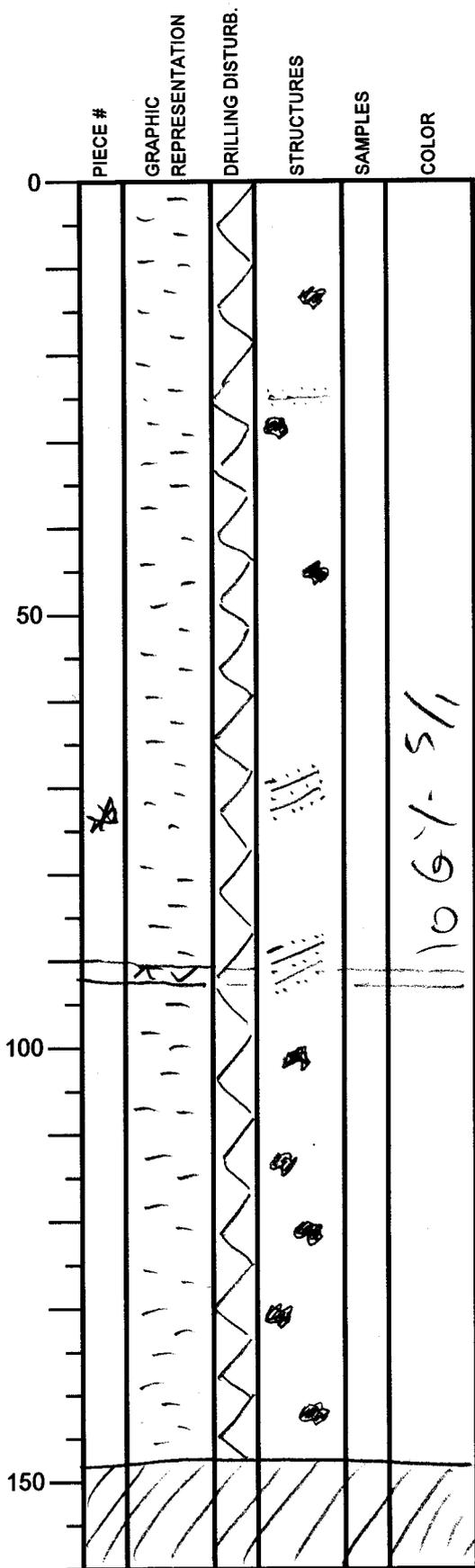
Semi-consolidated greenish
 gray mudstone with
 greenish laminae/layers
 chaotic bedding. Some
 levels of color banded
 mottling can be identified
 - heavily disturbed by
 drilling

EOC = 141 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 563
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 38X
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *gal.*

greenish layer

Same as above

greenish layer

*greenish layer above:
 zone comprising black ash*

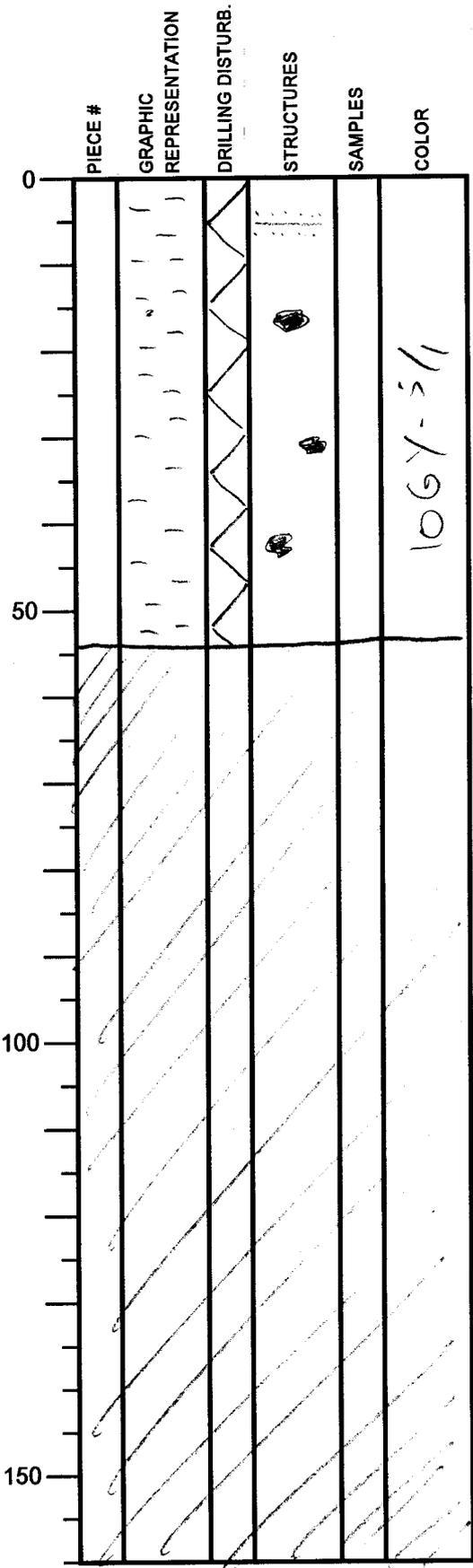
** Smear slide at 73a*

EOC = 148.5cm

Integrated Ocean Drilling Program

Visual Core Description

NO. *564*
 DATE: *27/12/2010*
 EXP.: *333*
 SITE/HOLE: *C0011 D*
 CORE: *38X*
 SECTION: *7*
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

Jan L

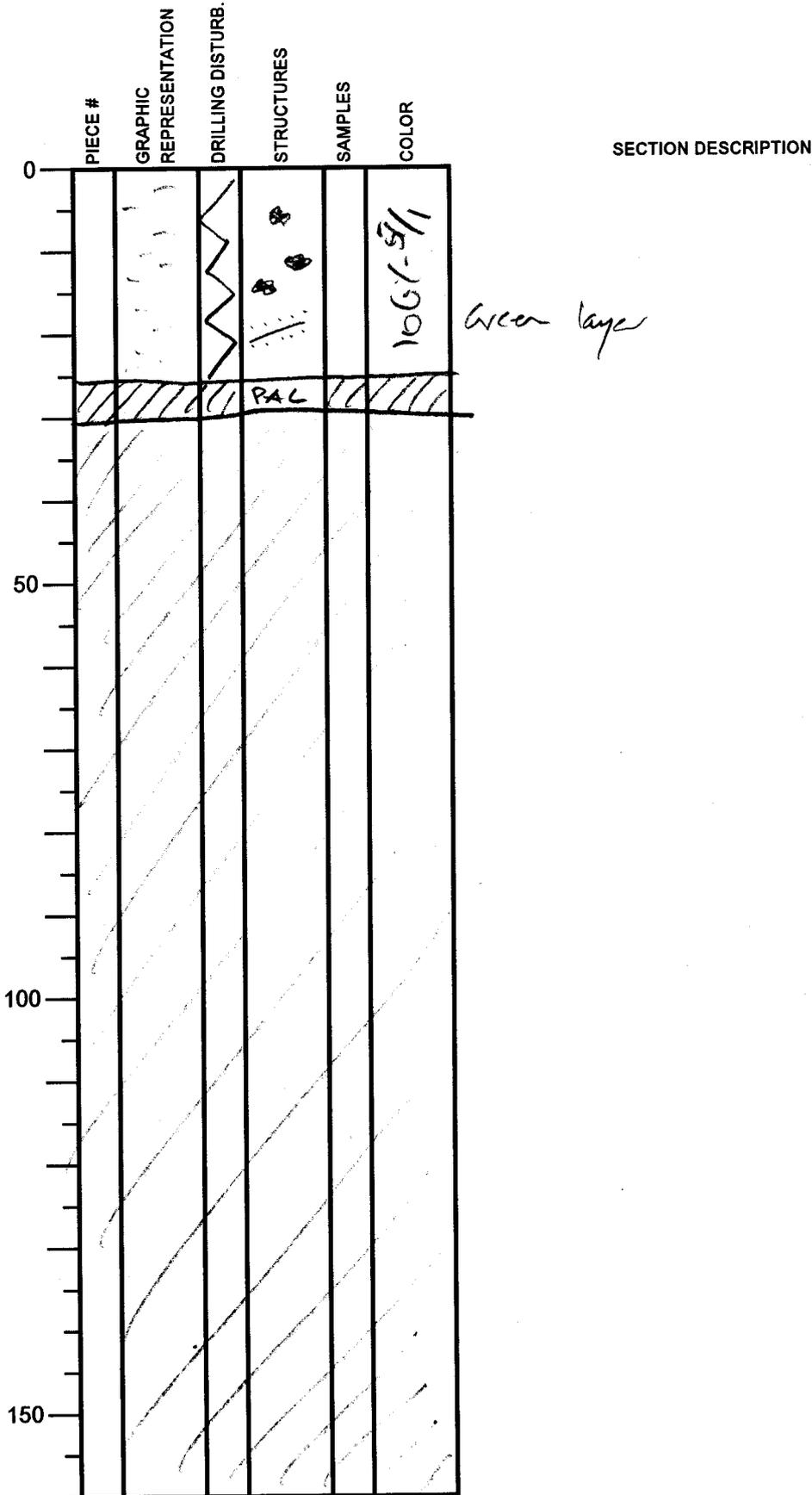
same as above

EOC = 54cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 565
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 38X
 SECTION: CC
 TOP DEPTH (m CSF):



OBSERVER: *Ja L.*

EOC = 35.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 567
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 39X
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

Silt-clay stone,
 consolidated. There
 are dark and green
 colored ash layers,
 together with bioturbations.

4/1064

Integrated Ocean Drilling Program

Visual Core Description

NO. 568
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: 0001D
 CORE: 39X
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

The same as
 39X-01 section.

Integrated Ocean Drilling Program

Visual Core Description

NO. 569
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 39X
 SECTION: 03
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as 39X-01, except in 64-86 cm there is a layer with lighter color and darker colored mud clasts in its upper part.

SS (84 cm)

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 570
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 39X
 SECTION: 04
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

The same as
 39X-01

Integrated Ocean Drilling Program

Visual Core Description

NO. 571
 DATE: 27/12/2010
 EXP.: 233
 SITE/HOLE: COO11D
 CORE: 39X
 SECTION: 06
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

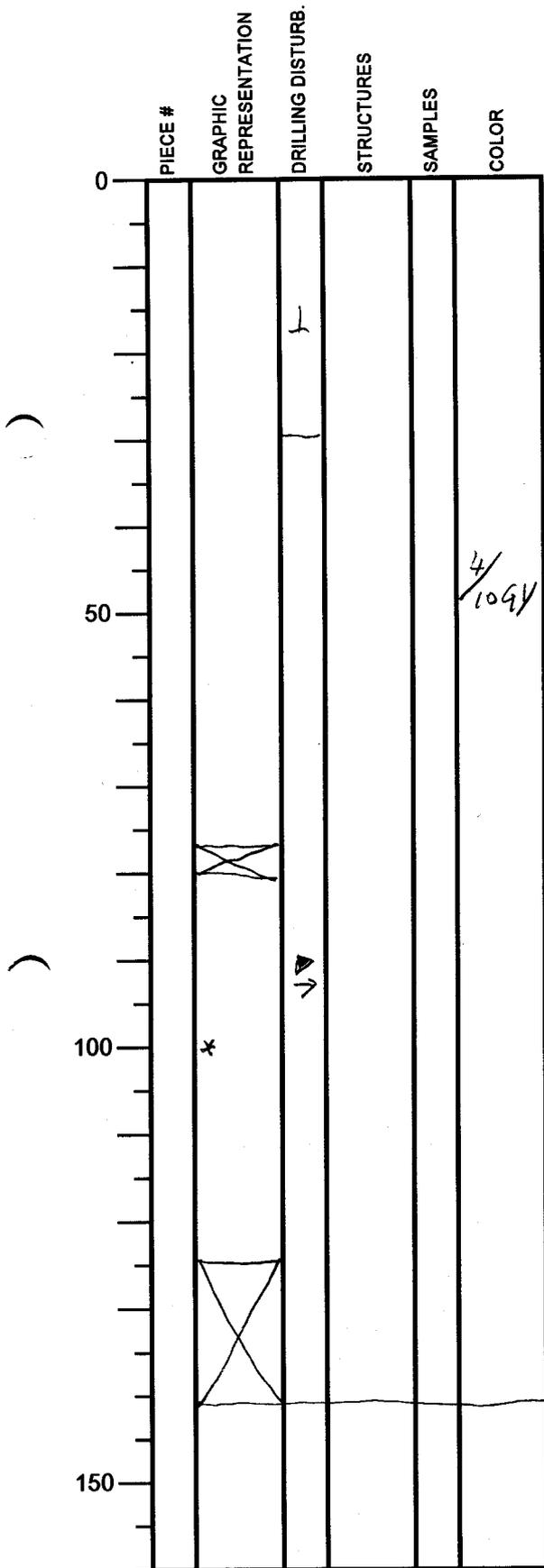
The same as
 39X-01.

OBSERVER: S Gao

Integrated Ocean Drilling Program Visual Core Description

NO. 572
 DATE: 27/12/2010
 EXP.: 332
 SITE/HOLE: C0011D
 CORE: 39X
 SECTION: 07
 TOP DEPTH (m CSF):

OBSERVER: S Gas



SECTION DESCRIPTION

The same as
39X-01.

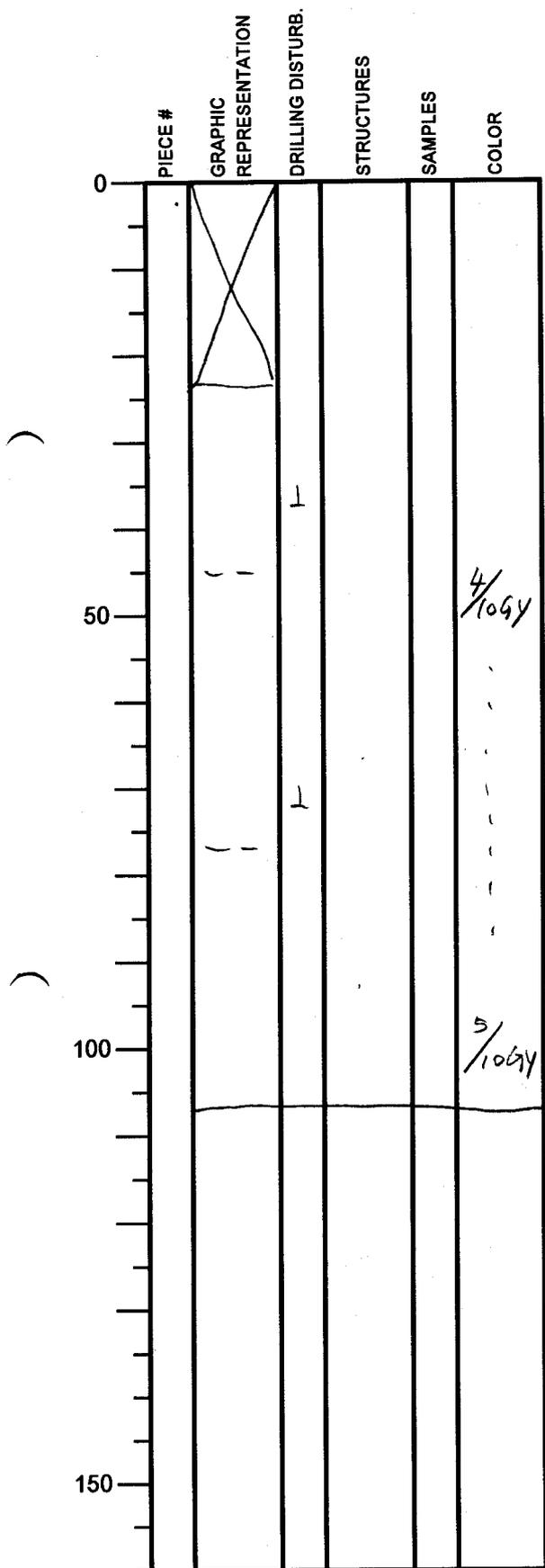
Heavily disturbed
by drilling, from
30 cm downwards.

- SS (100cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 573
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 39X
 SECTION: 08
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: S Gas

The same as
 39X-01. but the
 color of the clay
 becomes lighter towards
 the lower part.

Integrated Ocean Drilling Program

Visual Core Description

NO. 574
 DATE: 27/12/2010
 EXP.: 323
 SITE/HOLE: C0011D
 CORE: 39X
 SECTION: CC-AA
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		- - -				
50		- - - X	+			5/ 106Y
100						
150						

SECTION DESCRIPTION

OBSERVER: S Gao

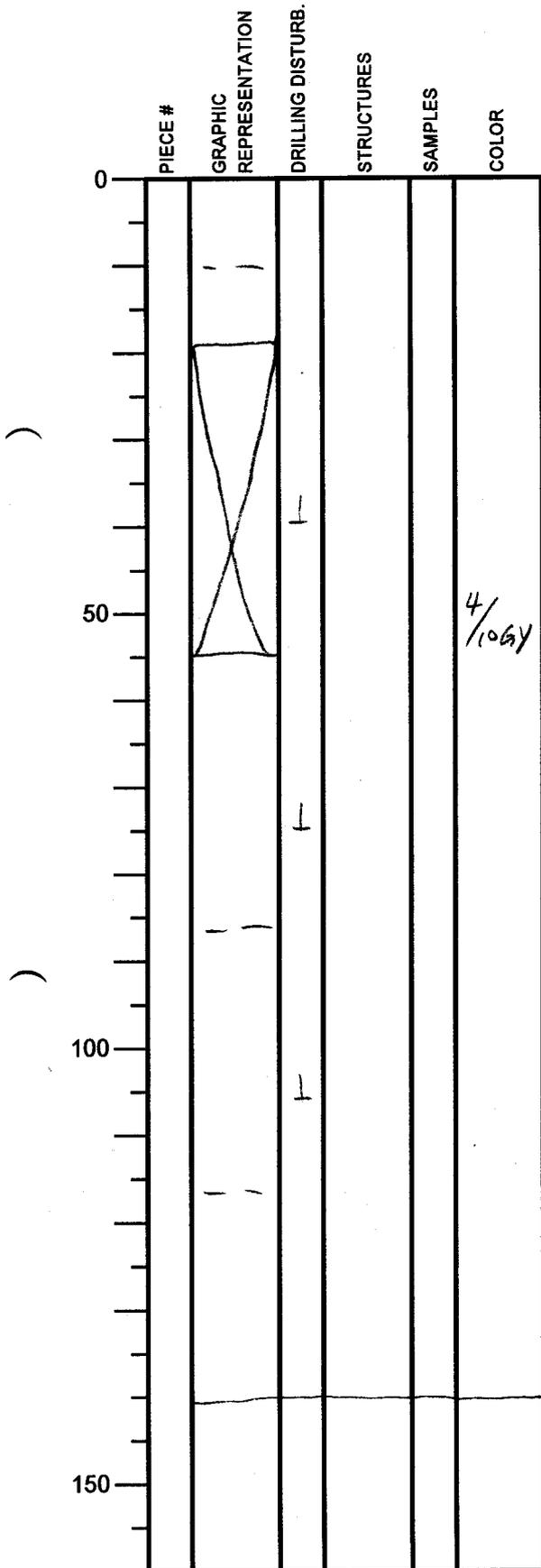
Silt-clay stone,
 with ash layers,
 light-colored compared
 with 39X-01.

Integrated Ocean Drilling Program

Visual Core Description

NO. 575
 DATE: 27/2/2010
 EXP.: 332
 SITE/HOLE: 0011D
 CORE: 40X
 SECTION: 01
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

Greenish grey silty clay,
 with dark brown and
 green layers (related
 to ash), with mud
 clasts and bioturbated
 features.

Integrated Ocean Drilling Program Visual Core Description

NO. 576
 DATE: 27/2/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 40X
 SECTION: 02
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as
40X-01.

OBSERVER: S Gas

Integrated Ocean Drilling Program Visual Core Description

NO. 577
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C011D
 CORE: 40X
 SECTION: 03
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as 40X-01, but in 38-45 cm the clay is lighter colored. A deformed bed with an erosion surface on top is present at 32 cm.

* SS (37.5cm)

OBSERVER: SGao

Integrated Ocean Drilling Program

Visual Core Description

NO. 578
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 40X
 SECTION: 04
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as
 40X-01.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 579
 DATE: 27/1/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 40X
 SECTION: 06
 TOP DEPTH (m CSF):

OBSERVER: S Grao

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

SECTION DESCRIPTION

The same as
40X-01.

A large mud clast
(d=3cm) occurs
at 110-112 cm.

Integrated Ocean Drilling Program

Visual Core Description

NO. 580
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 40X
 SECTION: 07
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

The same as
40X-01.

A large mud
clast (d=5cm) at
101-103 cm, and
a layer of green
clay at 127-129 cm.

4/10 Gy - SS (49cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 581
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 40X
 SECTION: 08
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as
 40X-07.

OBSERVER: J Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 582
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 40X
 SECTION: CC-AA
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50		 X	▲ ↓			4/10 gy
100						
150						

SECTION DESCRIPTION

The same as
 40x-08.
 Heavily disturbed
 by drilling.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 583
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: 0011D
 CORE: 41X
 SECTION: 01
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

Silt-clay stone
 with green & brown
 layers. Natural
 disturbance + bio-
 turbation.

4/1064

Integrated Ocean Drilling Program

Visual Core Description

NO. 584
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 41X
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: S Gao

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

SECTION DESCRIPTION

The same as
 41X-01.

Integrated Ocean Drilling Program

Visual Core Description

NO. 585
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 41X
 SECTION: 03
 TOP DEPTH (m CSF):

OBSERVER: S Gas

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		(
50		X				4 /1094
100		(
150		(

SECTION DESCRIPTION

The same as
41X-01.

Integrated Ocean Drilling Program

Visual Core Description

NO. 586
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 41X
 SECTION: 04
 TOP DEPTH (m CSF):

OBSERVER: S Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						4/187
100						
150						

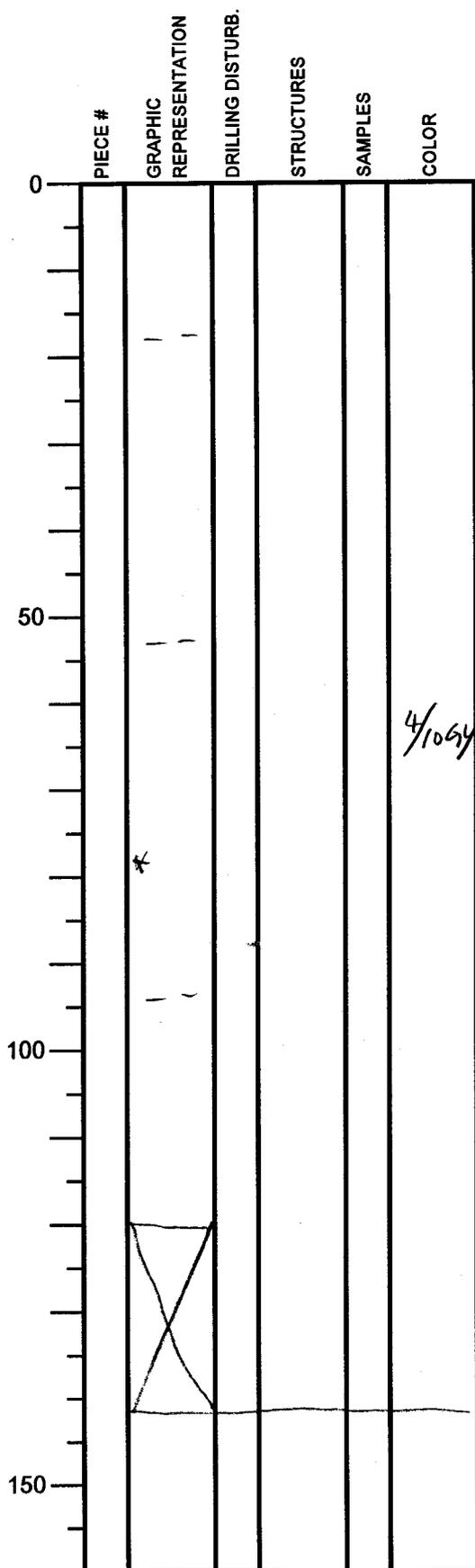
SECTION DESCRIPTION

The same as
 41X-01.

Integrated Ocean Drilling Program

Visual Core Description

NO. 587
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 41X
 SECTION: 06
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: S Gas

The same as
 41X-01, with layered
 structures at 83-92cm,
 and green layers at
 3-4 cm and 12-13cm.

4/1064

— SS
(79cm)

Integrated Ocean Drilling Program Visual Core Description

NO. 588
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: CO011D
 CORE: 41X
 SECTION: 07
 TOP DEPTH (m CSF):

OBSERVER: S Gas

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

SECTION DESCRIPTION

The same as
 41X-01, with green
 layers at 56, 64,
 69 and 137 cm.

4/1064

Integrated Ocean Drilling Program

Visual Core Description

NO. 389
 DATE: 27/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 41X
 SECTION: CC-AA
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
		X				
50						4/1091
100						
150						

SECTION DESCRIPTION

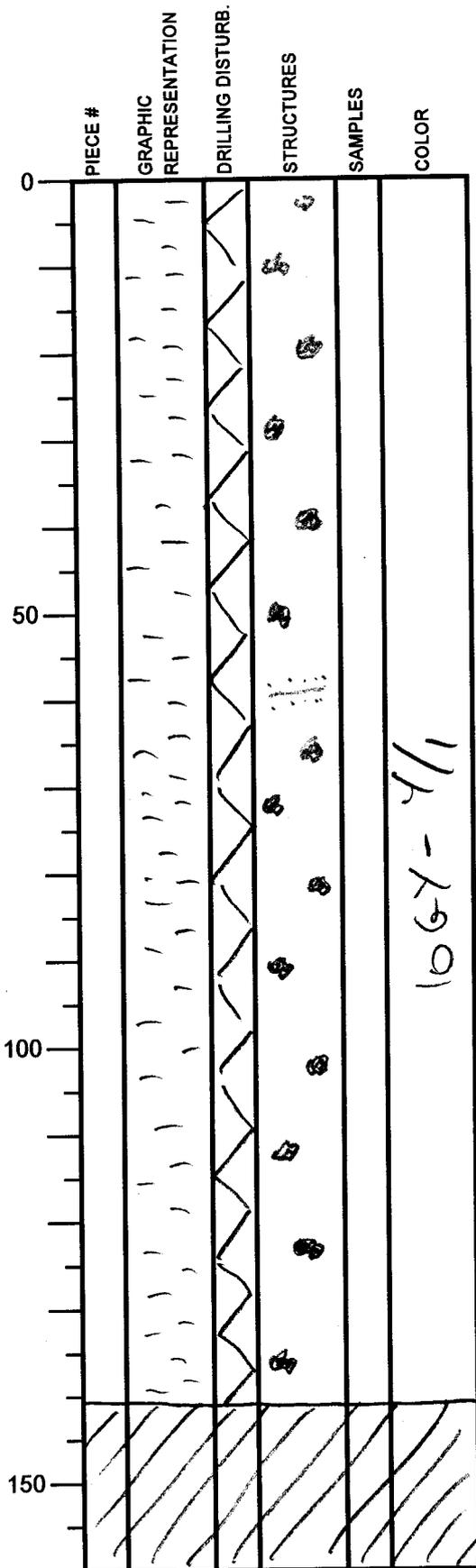
The same as
 41X-01; green
 layers at 16 and
 26 cm.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 590
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 92X
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

J. L.

Dark greenish gray mudstone
 with profound color
 mottling and some
 color banding (green lamina/
 layers)

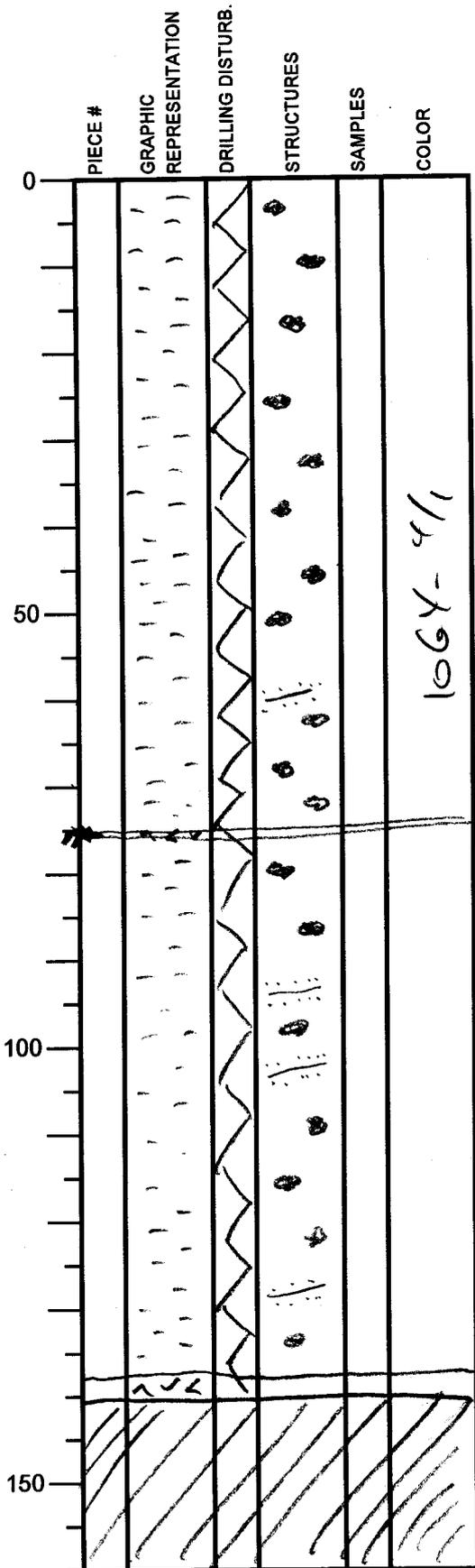
≠ profound lamination

Heavily disturbed by
 drilling (viscous).

EOC = 141 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 591
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 42X
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *J. L.*

* Smear slide at 76cm

Thin, disturbed (during drilling) ash layer

Dark greenish gray mudstone with some color banding and profound color mottling - heavily disturbed

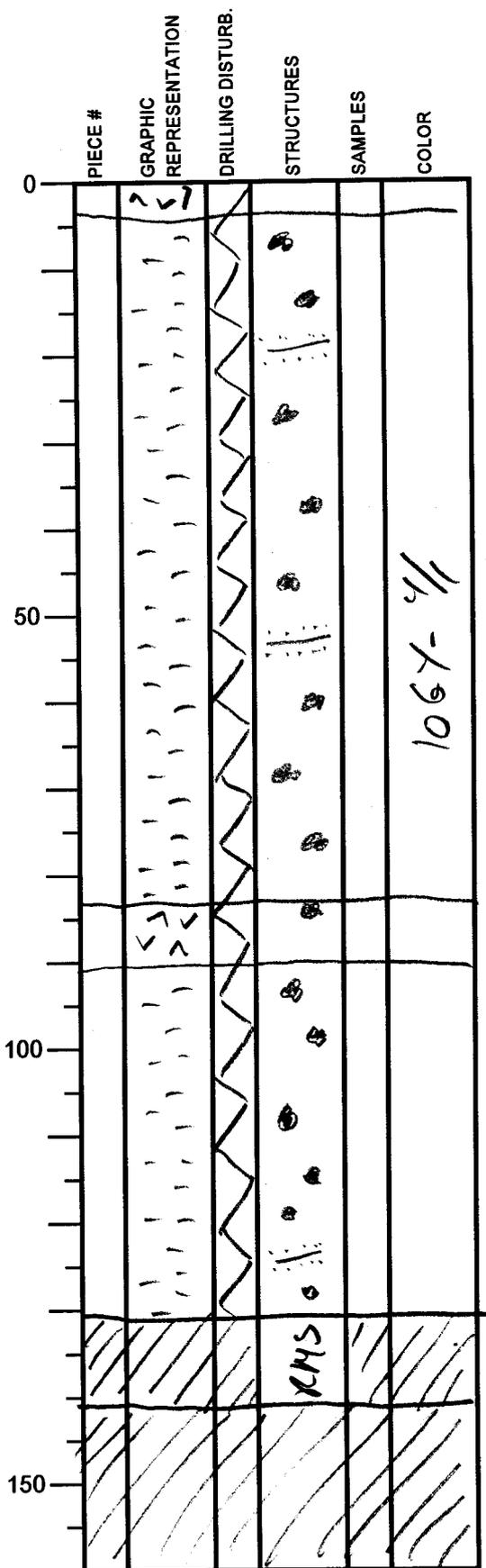
- severely disturbed during milling.

Dark brown ash layer

EOC = 140.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. SA2
 DATE: 8/2/2010
 EXP.: 33J
 SITE/HOLE: C00110
 CORE: 42X
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION
 Dark brown ash layer

OBSERVER: J.L.

Same as above

Light gray ash layer, bioturbated

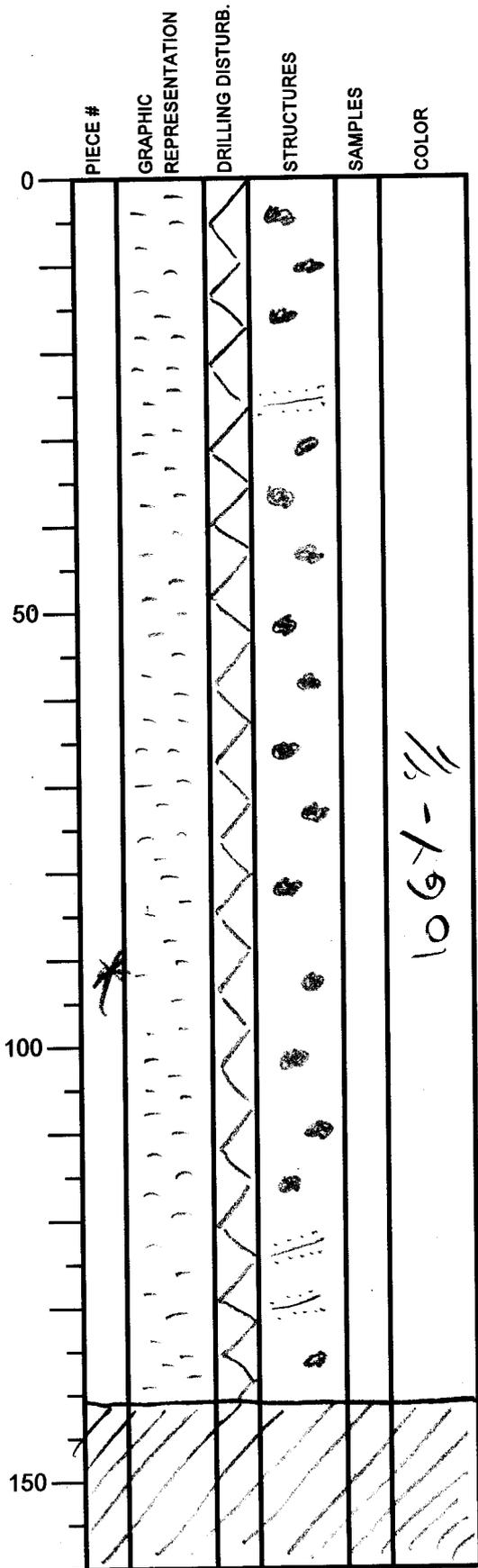
106X-4/1

RMS

EOC = 140.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 503
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 42X
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *yal.*

** Smear slide at 91 cm*

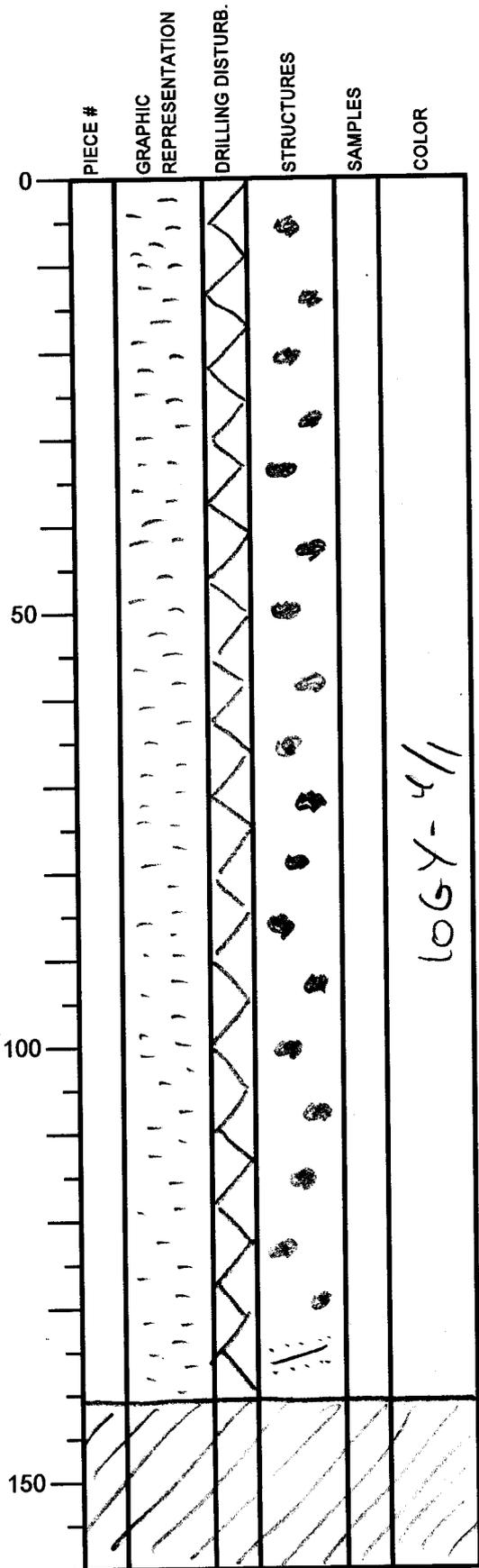
*Dark greenish gray mudstone
 with some color banding
 (green lamina / layers) and
 profound color mottling
 + heavily disturbed.*

*- Severely disturbed
 during drilling.*

EOC = 141 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 594
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: COO110
 CORE: 42X
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

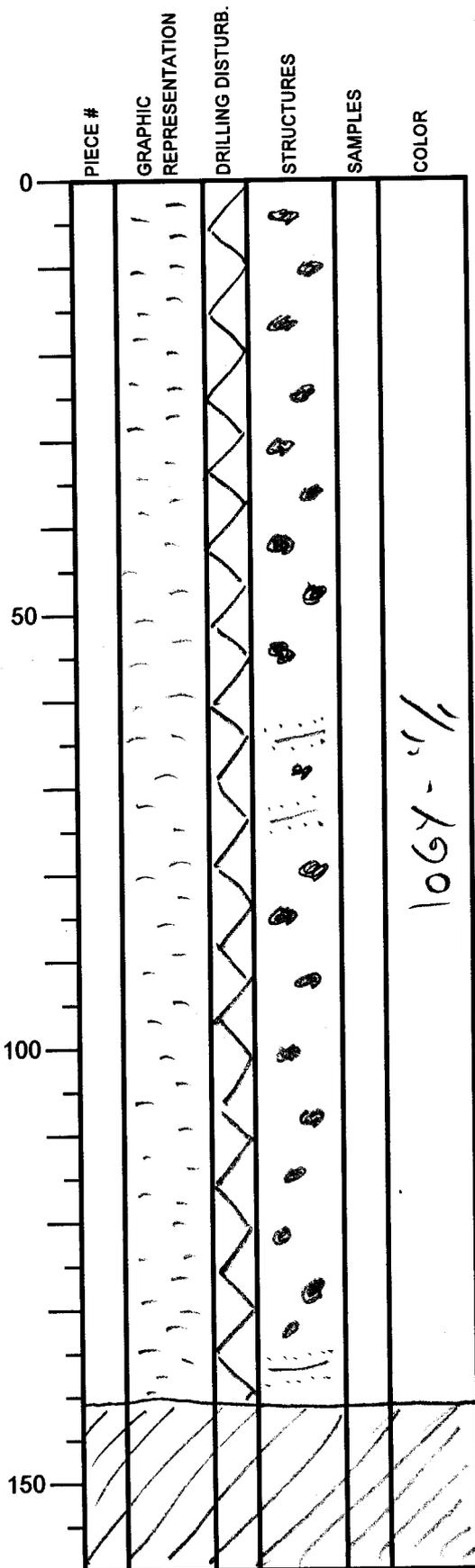
OBSERVER: J. L.

Same as above

EOC = 1410

Integrated Ocean Drilling Program Visual Core Description

NO. 595
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 424
 SECTION: 7
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

Jal

Same as above

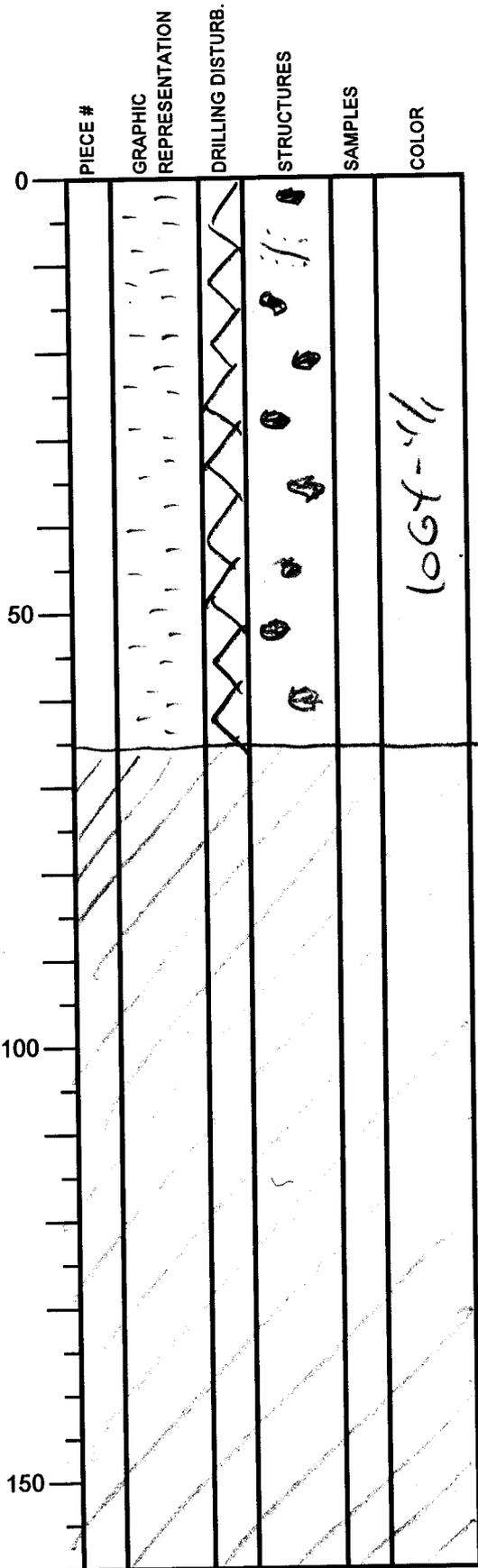
EOC 2111a

Integrated Ocean Drilling Program Visual Core Description

NO. 596
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 427
 SECTION: 8
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: JCL

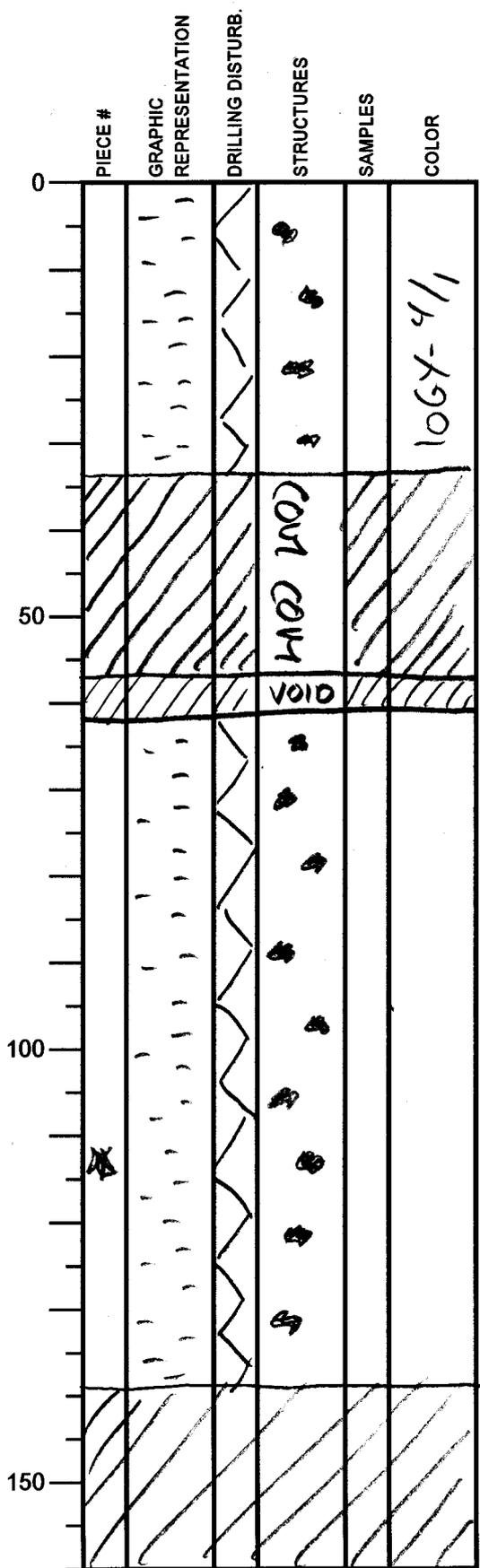


EOX = 65 m

Integrated Ocean Drilling Program

Visual Core Description

NO. 598
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 43X
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: JAL

Dark greenish gray mudstone with profound color nothing indicating pervasive bioturbation

Heavily disturbed by drilling (biscuits).

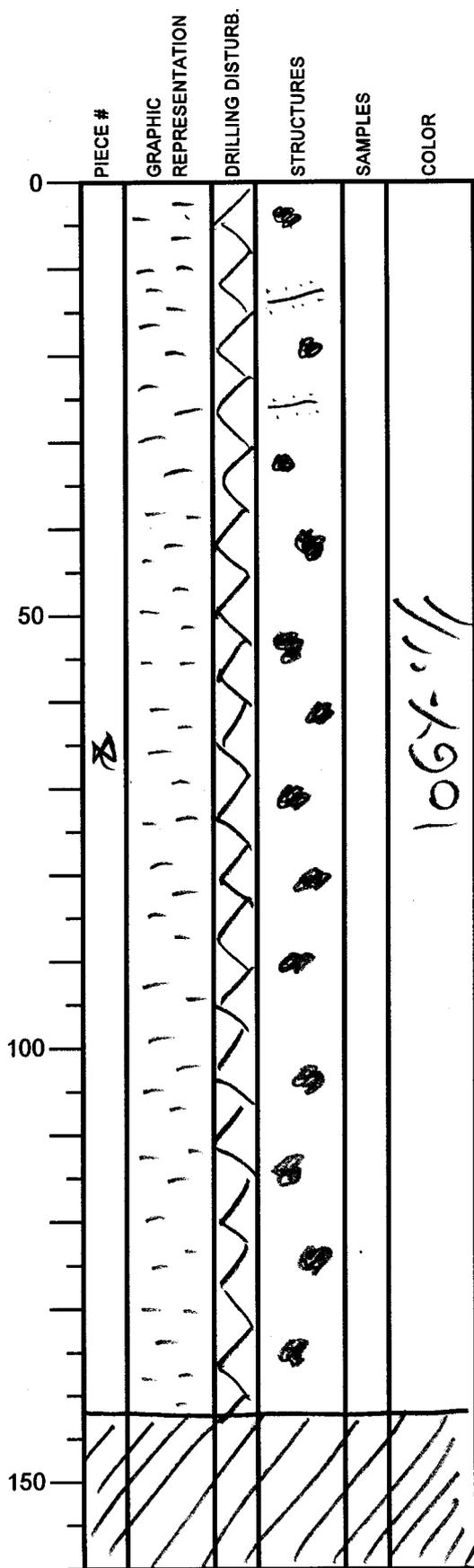
Smear slide of 112cm

EOC = 139 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 599
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 43X
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: JAL

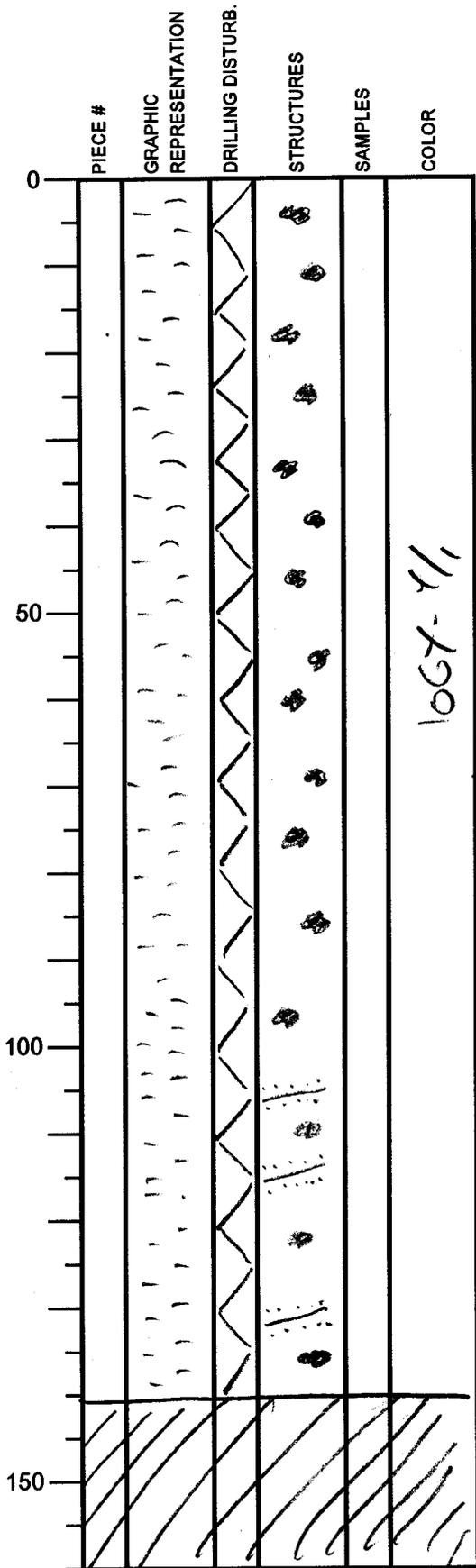
Same as above

* Smear slide at 65cm

EOC = 142 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 600
 DATE: 8/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 43X
 SECTION: 4
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

J. L.

Dark greenish gray mudstone
 with some green layers/
 laminae and profound color
 mottling indicating
 pervasive bioturbation.

Heavily disturbed by
 drilling

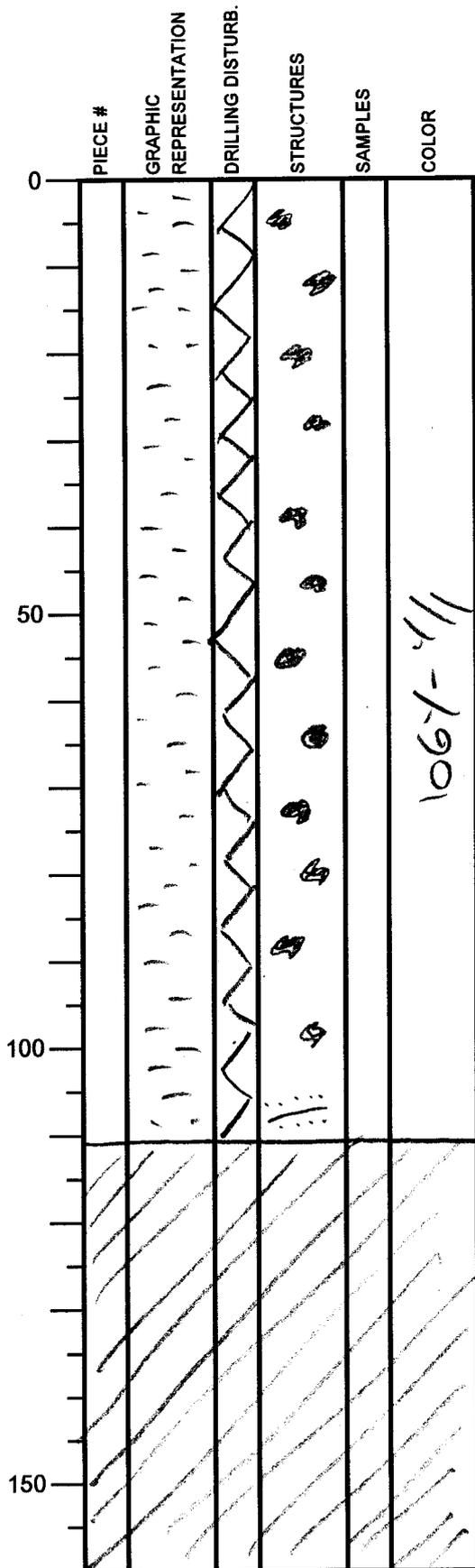
Green layers/laminae

EOC = 140.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 601
 DATE 28/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 43X
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *J. L.*

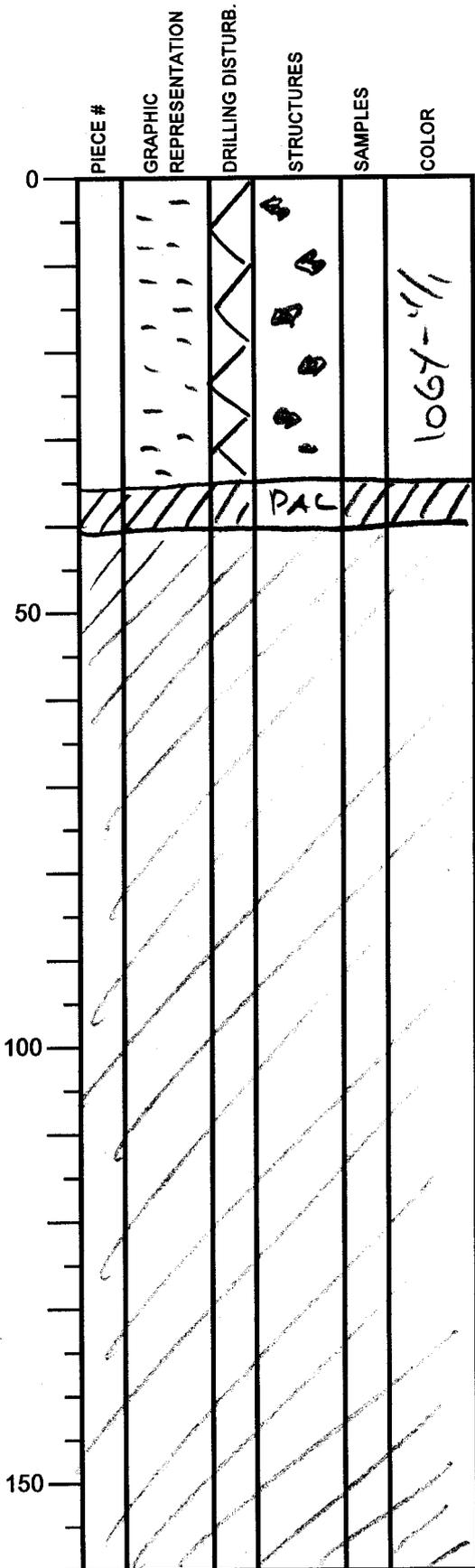
Same as above

Green layers.

EOC = 110.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 602
 DATE 8/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 43X
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

JCL

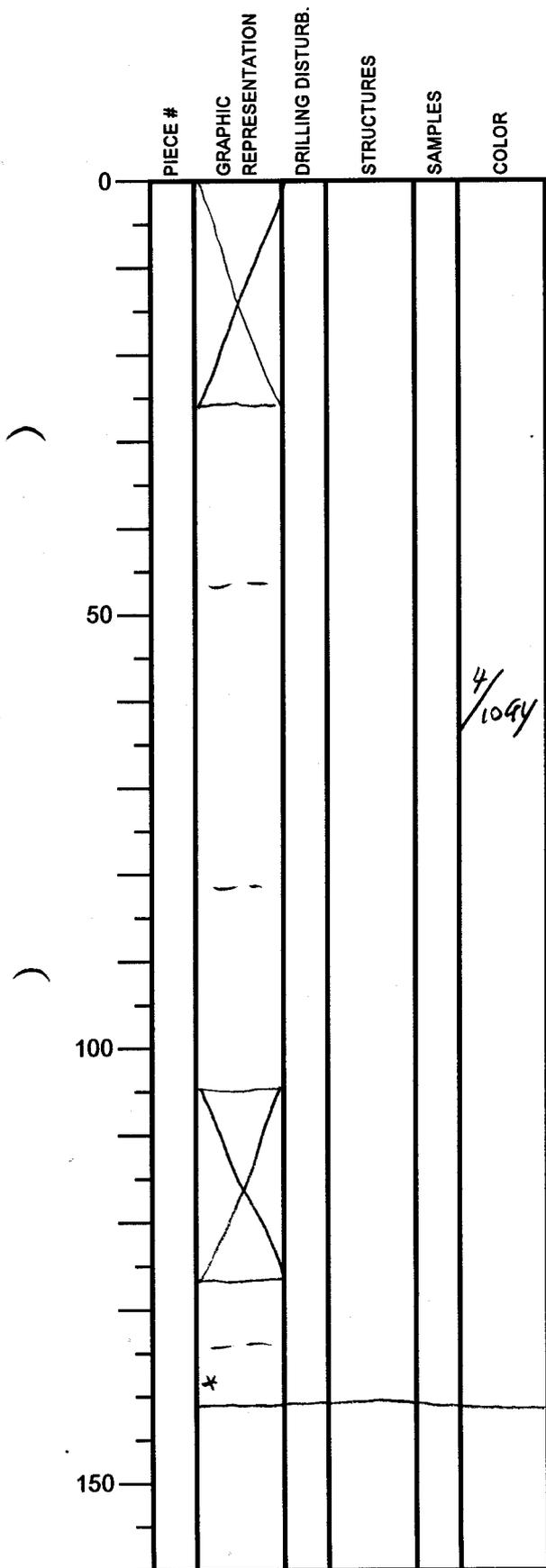
EOC = 40.50

Integrated Ocean Drilling Program

Visual Core Description

NO. 603
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 44X
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

Semi-consolidated
 mudstone, with
 various types of
 deformations and
 bioturbations, and
 brown and green
 layers.

Integrated Ocean Drilling Program

Visual Core Description

NO. 604
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 44X
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: S Gas

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

SECTION DESCRIPTION

The same as
 44X-01.

Integrated Ocean Drilling Program Visual Core Description

NO. 606
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 44X
 SECTION: 05
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as
44X-01.

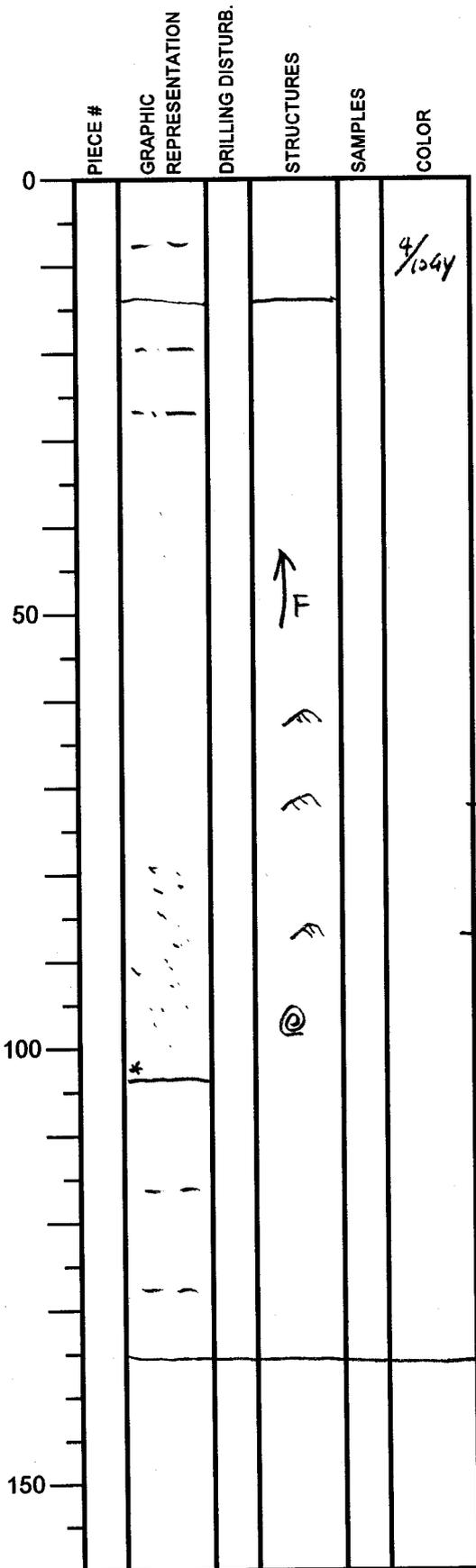
The top part is
heavily disturbed
by drilling.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 607
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 44X
 SECTION: 06
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: S Gao

The parts of 0-14 and 104-135 cm are the same as 44X-01.

In 14-104 cm there is a fining upward sequence, with sandy material at the bottom.

Photos 87-102 cm, there are distorted beds, indicating re-mobilization after deposition. Cross bedding is present at 63, 71-73, 85 (103 cm) and 86 cm.

Integrated Ocean Drilling Program

Visual Core Description

NO. 608
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 44X
 SECTION: CC-AA
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as
 44X-01.

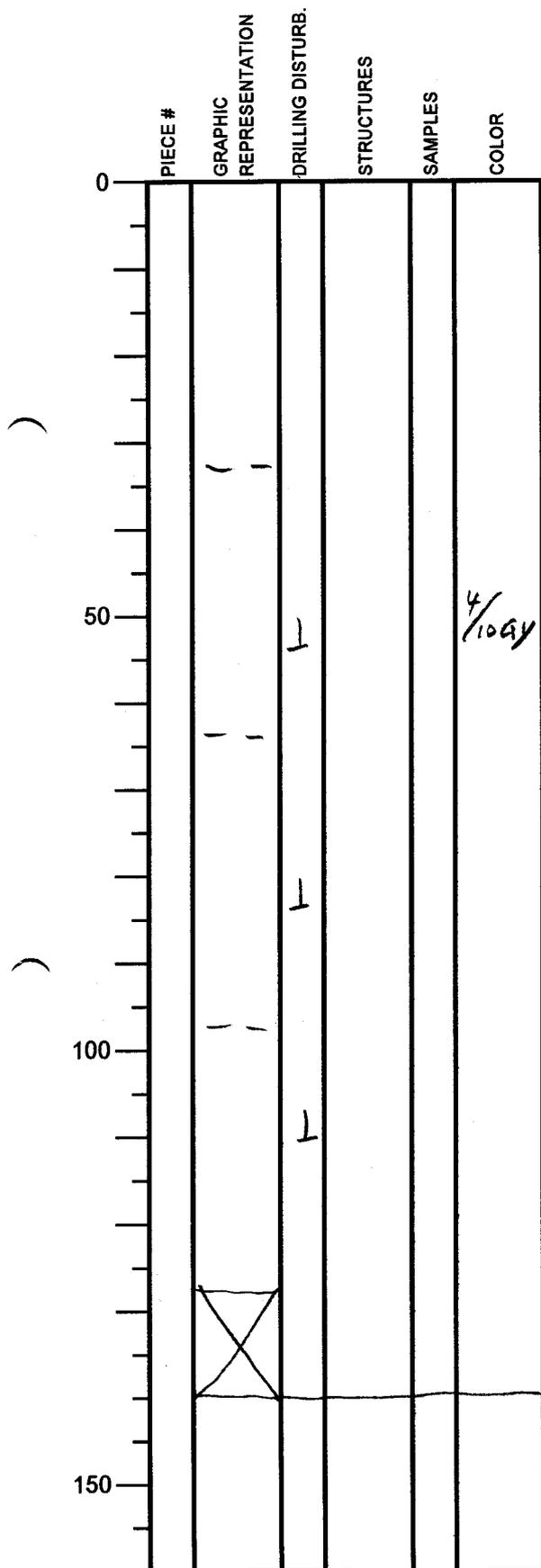
OBSERVER: SGao

Integrated Ocean Drilling Program

Visual Core Description

NO. 609
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 45X
 SECTION: 01
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

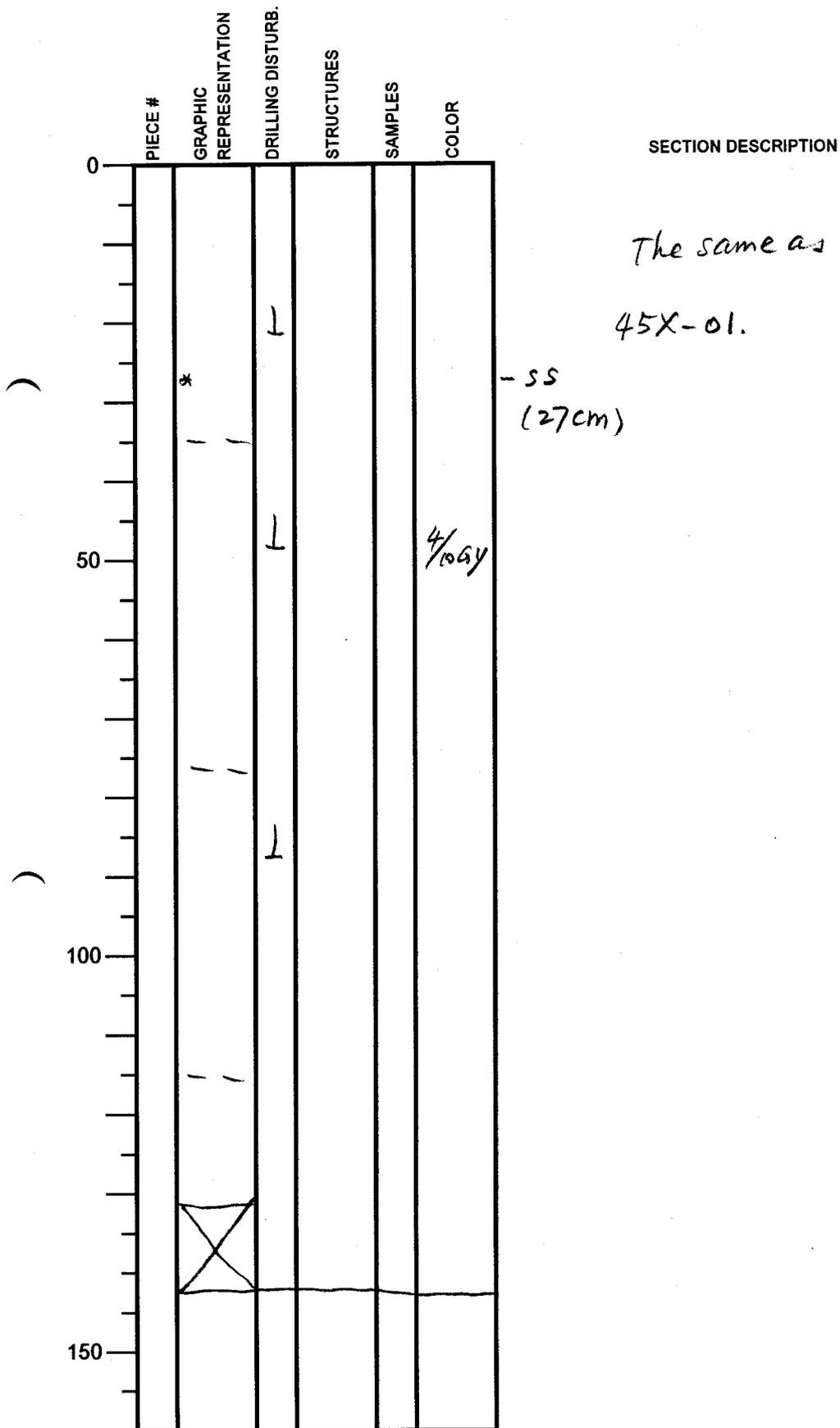
Mudstone,
 with green and
 brown layers,
 and disturbances/
 bioturbations.

4/10ay

Integrated Ocean Drilling Program Visual Core Description

NO. 610
 DATE: 28/12/2010
 EXP.: 223
 SITE/HOLE: C0011D
 CORE: 45X
 SECTION: 02
 TOP DEPTH (m CSF):

OBSERVER: SGA0



Integrated Ocean Drilling Program

Visual Core Description

NO. 611
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 45X
 SECTION: 04
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: S Gao

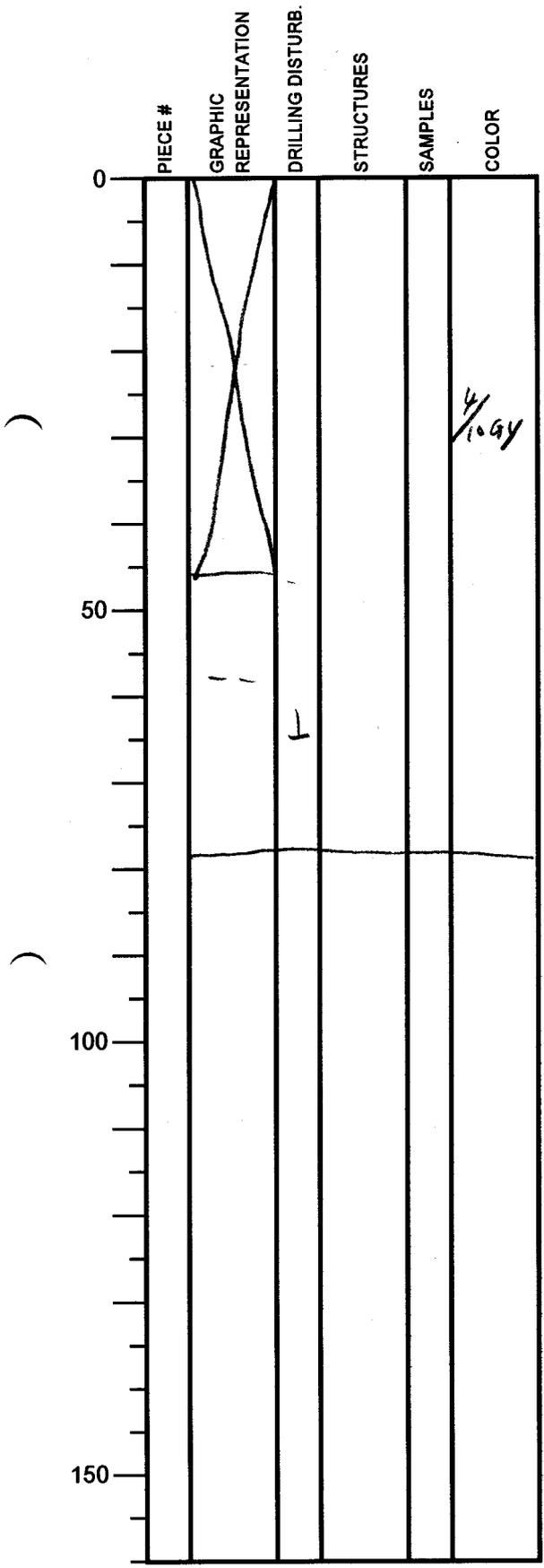
The same as
 45X-01. There is
 (formerly)
 a brown ash layer
 at 75.5-78cm

3/10GY - SS
 (77cm, sand clast)

Integrated Ocean Drilling Program Visual Core Description

NO. 612
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: 0011D
 CORE: 45X
 SECTION: 05
 TOP DEPTH (m CSF):

OBSERVER: S Gao



SECTION DESCRIPTION

The same as
 45X-01.

Integrated Ocean Drilling Program

Visual Core Description

NO. 613
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 45X
 SECTION: CC-AA
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

The same as
 45X-01.

OBSERVER: S Gas

Integrated Ocean Drilling Program

Visual Core Description

NO. 614
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 46X
 SECTION: 01
 TOP DEPTH (m CSF):

OBSERVER: SGao

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

SECTION DESCRIPTION

Mudstone, with
 Brown/green layers
 and bioturbations
 Heavily disturbed
 by drilling.

4/
1091

Integrated Ocean Drilling Program Visual Core Description

NO. 615
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 46X
 SECTION: 02
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

Lithology is the same as 46X-01.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 616
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 46X
 SECTION: 04
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						
50						4/ 1094
100		* 		↑ F		3/ 1094
150						

SECTION DESCRIPTION

OBSERVER: SGao

0-77.5 cm the same as 46X-02.

77.5-141 cm, sand, with a fining upward trend (gravel sized particles are present at the bottom). White, soft particles.

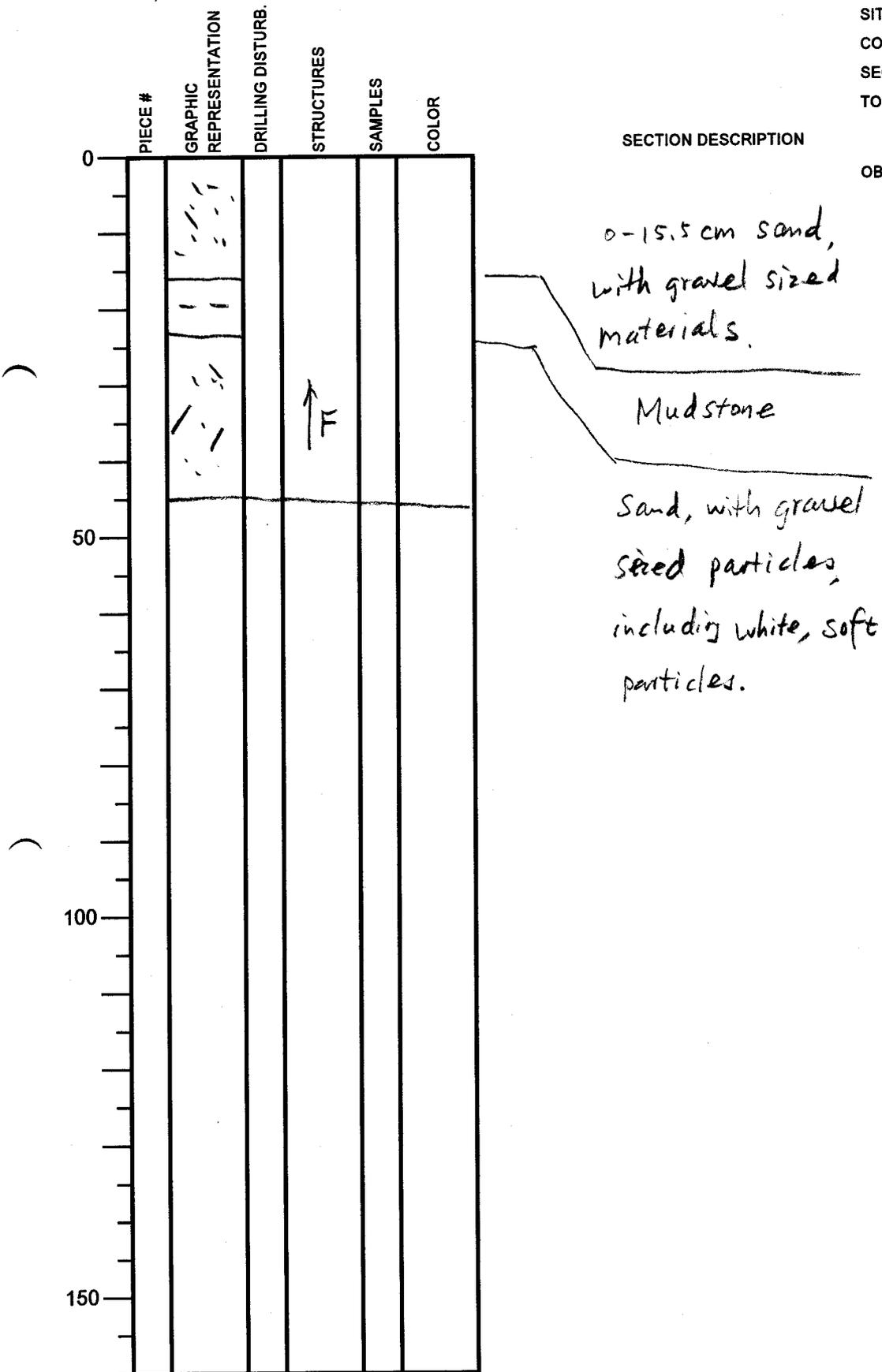
SS
(91cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 617
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 45X
 SECTION: 05
 TOP DEPTH (m CSF):

OBSERVER: S Gao



Integrated Ocean Drilling Program

Visual Core Description

NO. 618
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 46X
 SECTION: CC-AA
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		/ / / / /				
50		/ / / / /				3/1064
100		X X				
150						

SECTION DESCRIPTION

OBSERVER: S Gao

Sand or gravelly
 sand, fining upward.
 Lower part has gravels
 (including white, soft
 particles), the largest
 particles > 1 cm in diameter.

= SS (63 cm)
 = SS (64 cm)

Integrated Ocean Drilling Program

Visual Core Description

NO. 619
 DATE: 28/12/2010
 EXP.: 332
 SITE/HOLE: C0011D
 CORE: 47X
 SECTION: 01
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

Mudstone.

Sandstone, the same as those in core 46X.

OBSERVER: SGao

Integrated Ocean Drilling Program

Visual Core Description

NO. 623
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 47X
 SECTION: 5
 TOP DEPTH (m CSF):

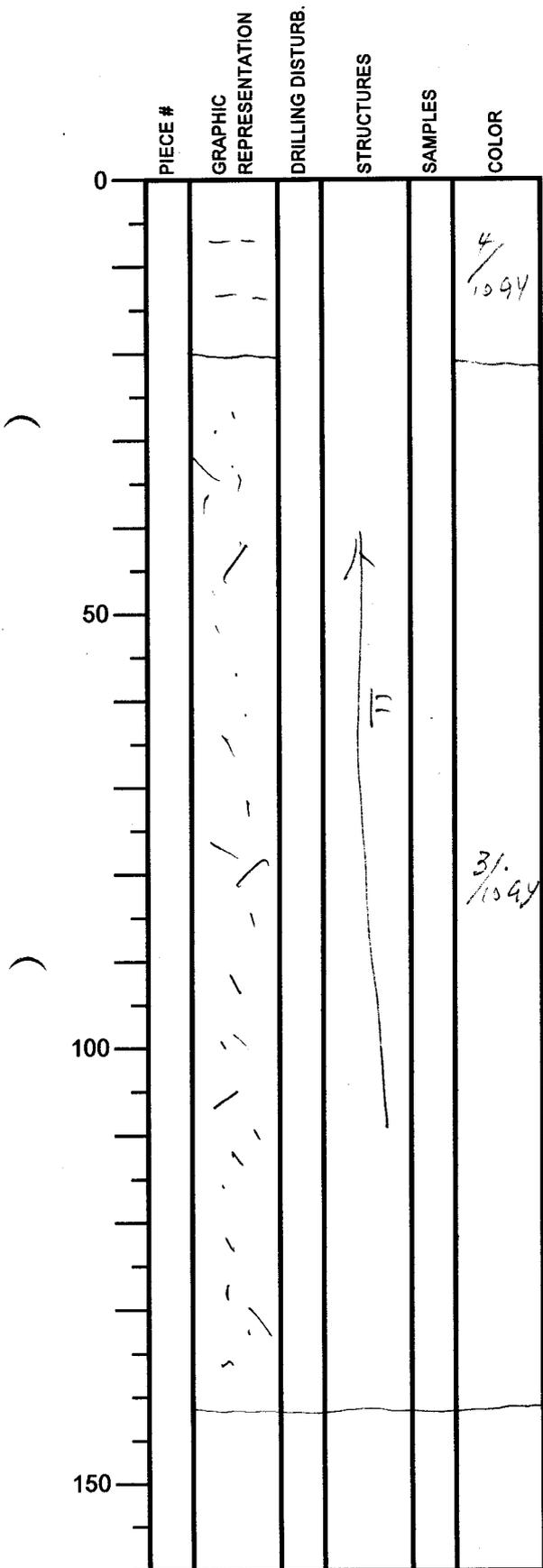
OBSERVER: S Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0							Mudstone Continued.
50		x			4 /1091	- ss (30cm)	
100							
150							

Integrated Ocean Drilling Program

Visual Core Description

NO. 624
 DATE: 28/11/2010
 EXP.: 338
 SITE/HOLE: C001D
 CORE: 47X
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: S Gao

Mudstone continues until 20 cm. Then, there is another fining upward sandstone section.

Integrated Ocean Drilling Program

Visual Core Description

NO. 625
 DATE: 28/12/2010
 EXP.: ???
 SITE/HOLE: C0011D
 CORE: 47X
 SECTION: 7
 TOP DEPTH (m CSF):

OBSERVER: S Gao

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		/ /				
50		x / /		↑ F	3 / 1064	
100		/ /	▲ →		4 / 1064	
150		/ /				

SECTION DESCRIPTION

Sandstone layer
 continues to 76cm,
 -SS (22cm) beyond which
 mudstone appears
 again.

Integrated Ocean Drilling Program Visual Core Description

NO. 626
 DATE: 28/1/2010
 EXP.: 333
 SITE/HOLE: CO-11D
 CORE: 47X
 SECTION: CC-AA
 TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

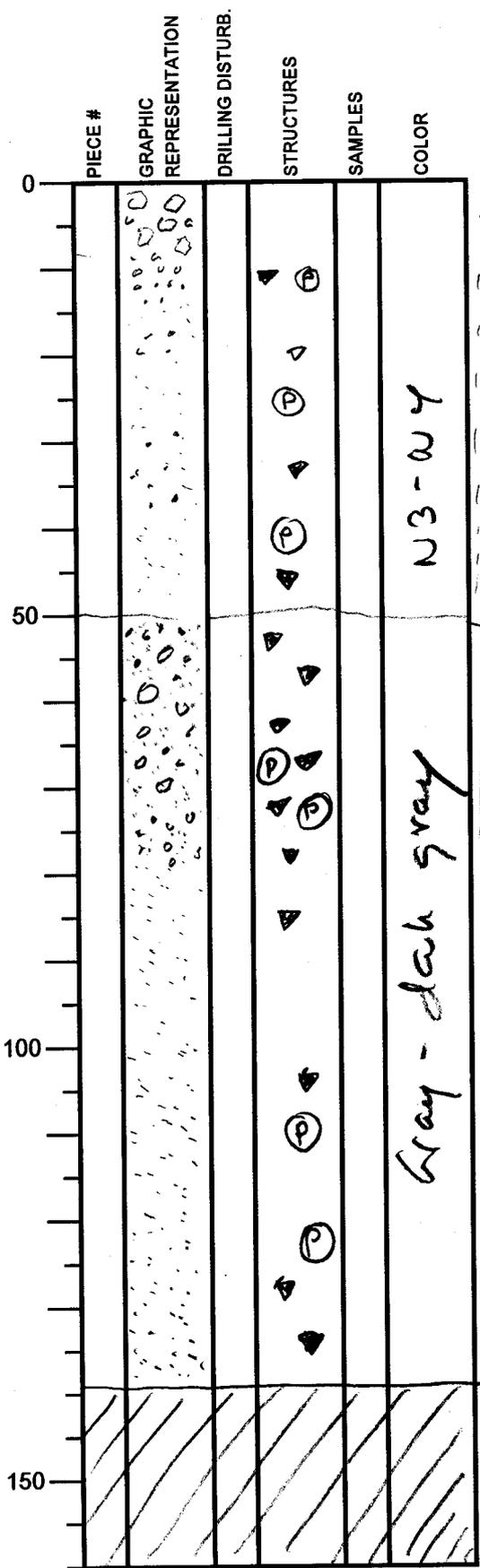
Mudstone.

OBSERVER: S Gao

Integrated Ocean Drilling Program

Visual Core Description

NO. 627
 DATE: 29/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 48X
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: JAL

Zone of high content of mud clasts & pumice (as mud clasts and pumice below)

Sand comprising mud clasts and pumice

Zone of sand with high content of mud clasts and pumice - matrix supported

- sharp upper boundary
- more gradual lower boundary

Sand comprising mud clasts and pumice

- massive / homogeneous (no grading)

EOC = 139 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 628

DATE: 2/12/20 10

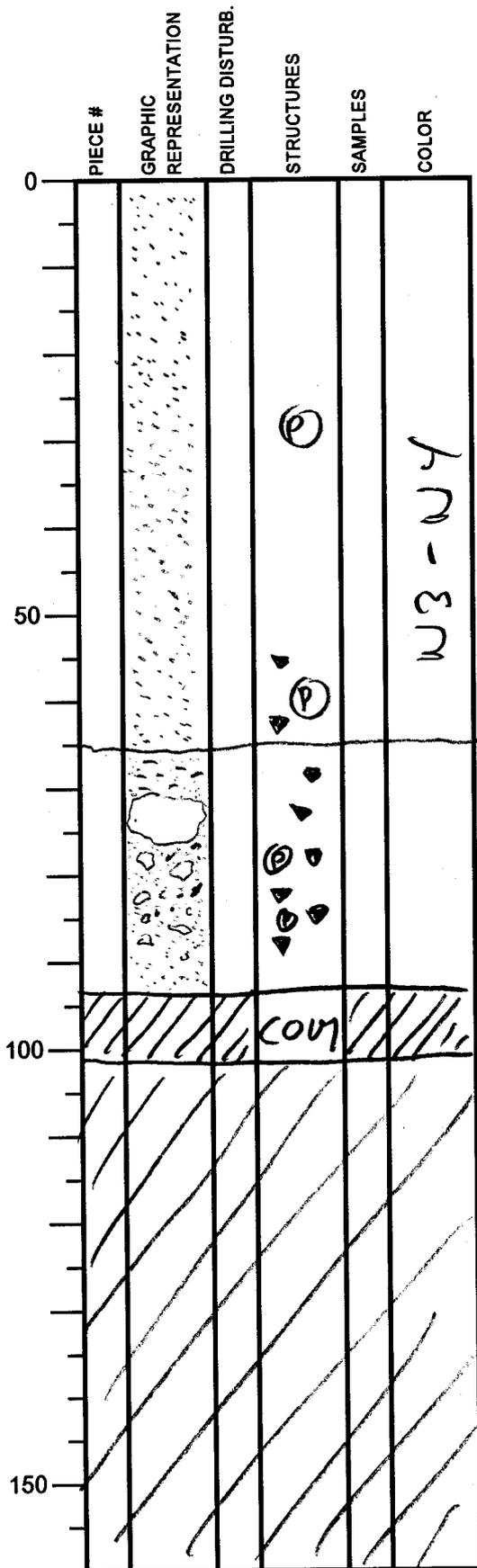
EXP.: 333

SITE/HOLE: C00 110

CORE: 48X

SECTION: 2

TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

Ja L.

Gray - dark gray
 Sand with scattered mud
 clasts and pumice, higher
 concentration from 55-65 cm
 depth

Sharp boundary

Zone of high content of
 mud clasts and pumice.
 - sandy matrix and matrix
 supported

Integrated Ocean Drilling Program Visual Core Description

NO. 629
 DATE: 28/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: C18X
 SECTION: 4
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						W3
50	*					106X-1/1
100						
150						

SECTION DESCRIPTION

OBSERVER:

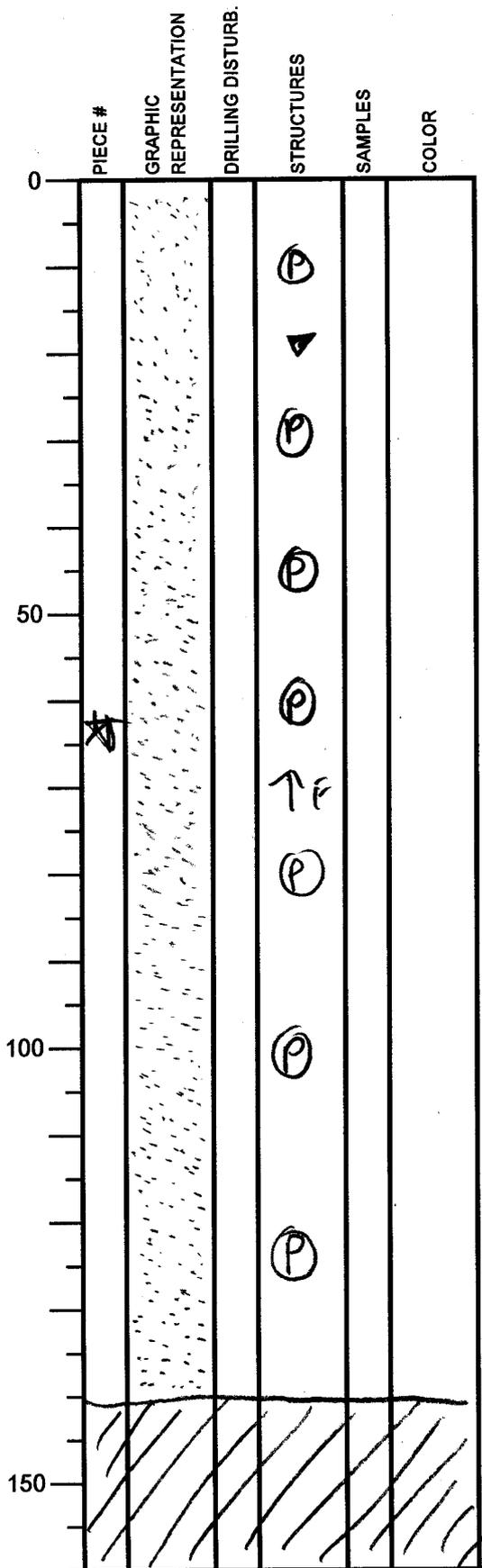
* Smear slide of 38c-

EOC = 41cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 630
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 48X
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: JCL.

gray-dark gray sand
 with mud clasts and
 pyrite

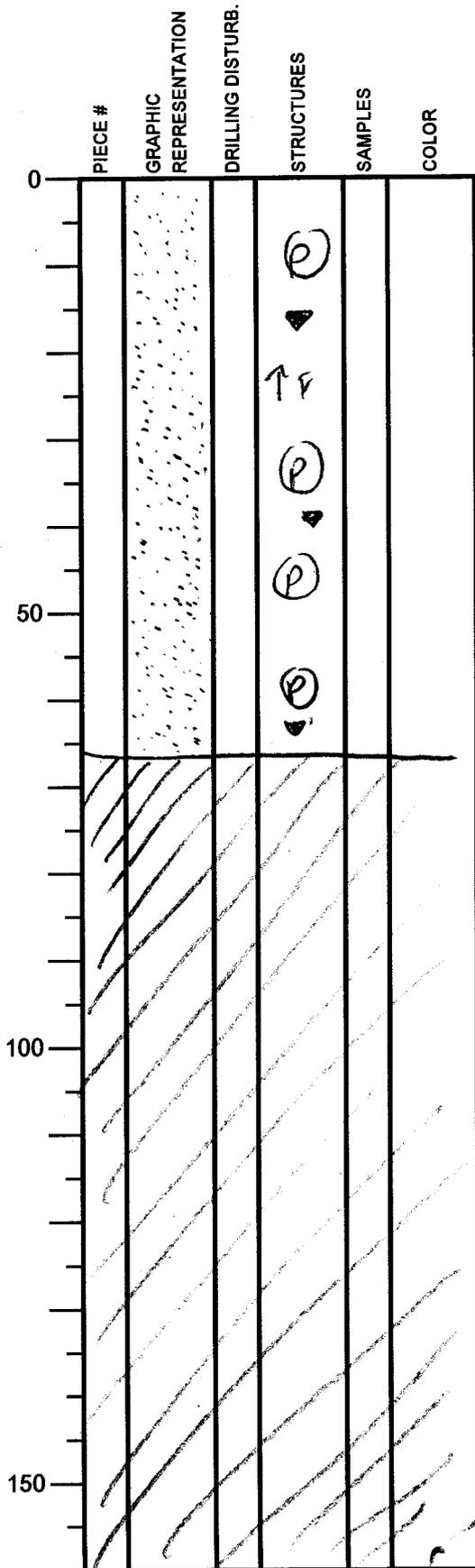
* Smear slide at 63cm

EOC = 140 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 631
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 48X
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *Jal.*

Gray-dark gray sand
comprising mud clasts
and pyrite.

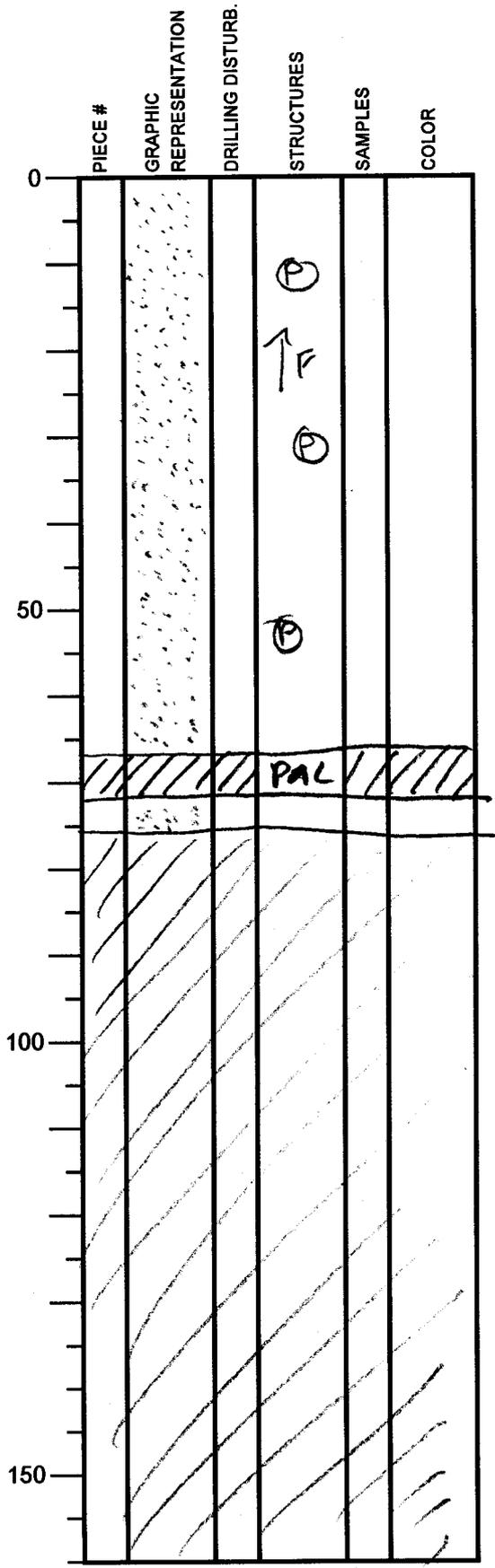
Unward facing for section
CC - 05

EOC 266 c-

Integrated Ocean Drilling Program

Visual Core Description

NO. 632
 DATE: 21/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 48X
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

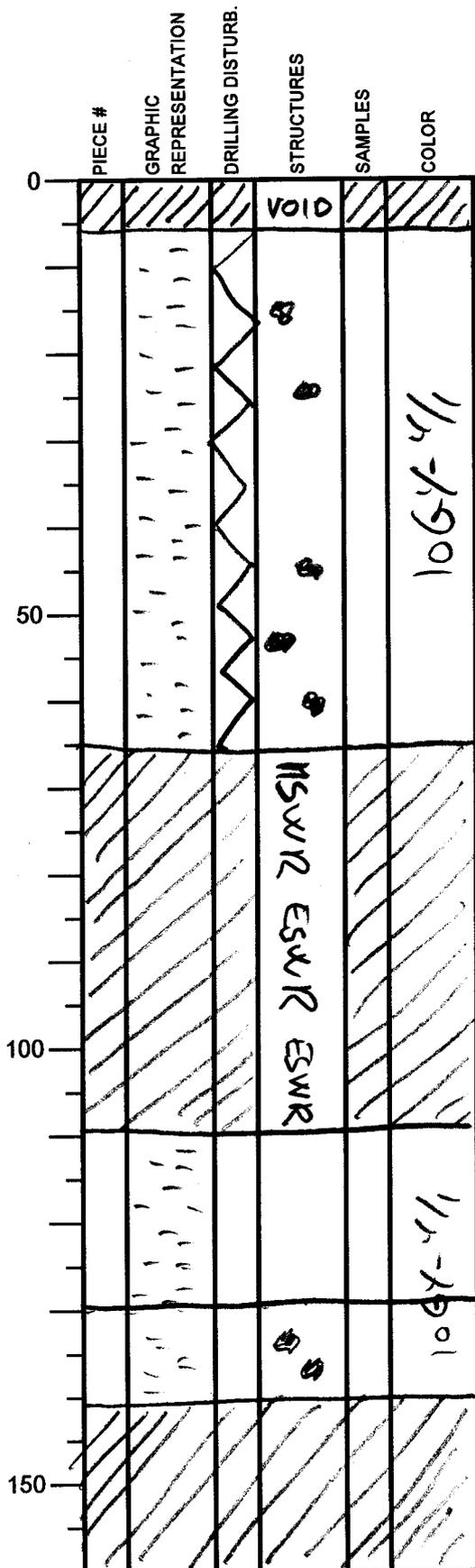
OBSERVER: *FL*

EOC = 75.50

Integrated Ocean Drilling Program

Visual Core Description

NO. 633
 DATE: 21/2/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 49X
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *Y. L.*

Profound color mottling

Dark greenish gray mudstone with profound color mottling indicating severe bioturbation in addition - the interval 109-129 cm is homogeneous and with no color mottling, sharp lower boundary - for lenticle

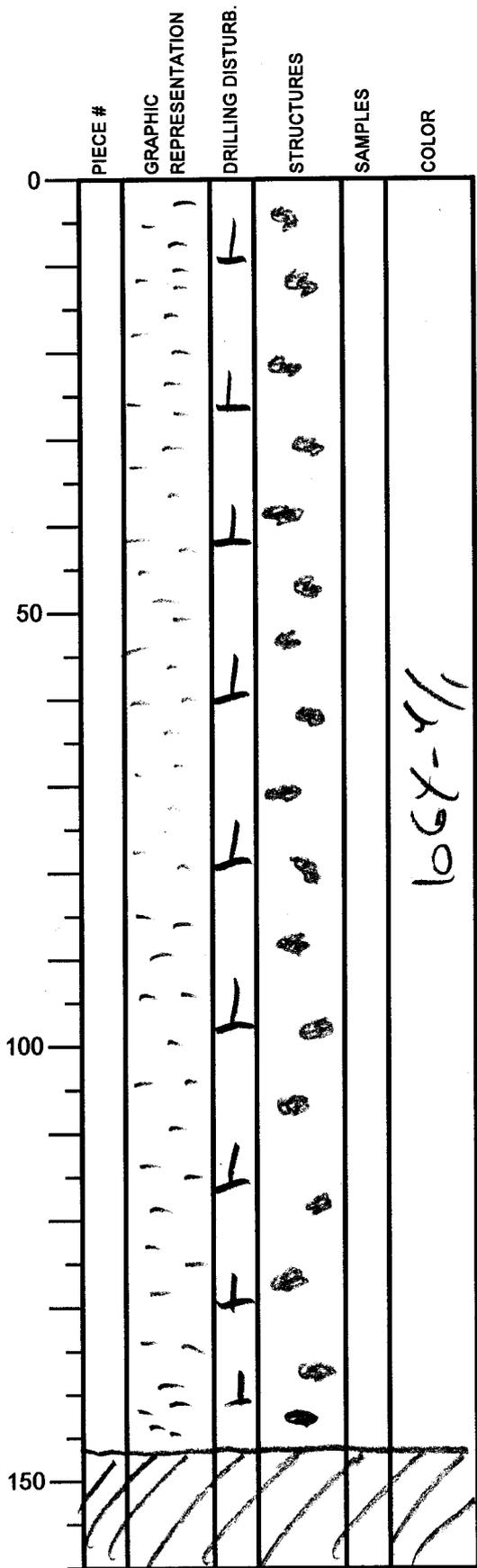
Homogeneous mudstone

Profound color mottling

EOC = 140.5 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 634
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 49X
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

JCL

Same as above

EOC = 146.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. **635**
 DATE: **9/2/2010**
 EXP.: **333**
 SITE/HOLE: **CO011D**
 CORE: **49X**
 SECTION: **4**
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			RHS		
50			COM MEXR COM		
100			HDWR OSWR		106X-11
150					

SECTION DESCRIPTION

OBSERVER: **JCL**

Homogeneous mudstone, bioturbated in the upper part, sharp lower boundary - laminae in the lower part

Dark greenish gray mudstone, bioturbated

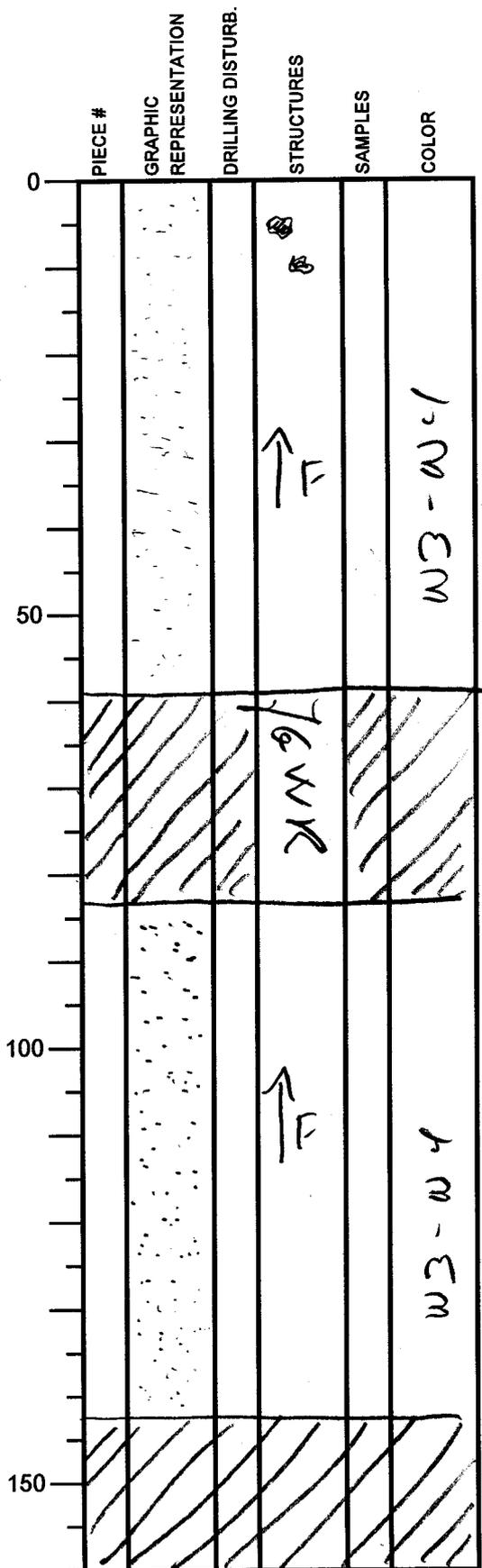
* Smear slide at 98 cm

EOC = 141 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 636
 DATE: 29/12/2010
 EXP.: 333
 SITE/HOLE: C0011 D
 CORE: 49X
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: J.L.

Gray - dark gray upward
 fining sand stone with
 some color mottling indicating
 lamination in the upper-
 most part.

EOC = 142.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 637
 DATE 29/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 49X
 SECTION: 6
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		(dots)		↑ F		
50	*			(P)		W3-W4
100						
150						

SECTION DESCRIPTION

OBSERVER: *J. L.*

See above

Smear slide at 26 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 638
 DATE 29/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: 49Y
 SECTION: CC
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		(Dotted pattern)		Ⓟ ↑ F Ⓟ		N3-W4
				PAL		
50						
100						
150						

SECTION DESCRIPTION

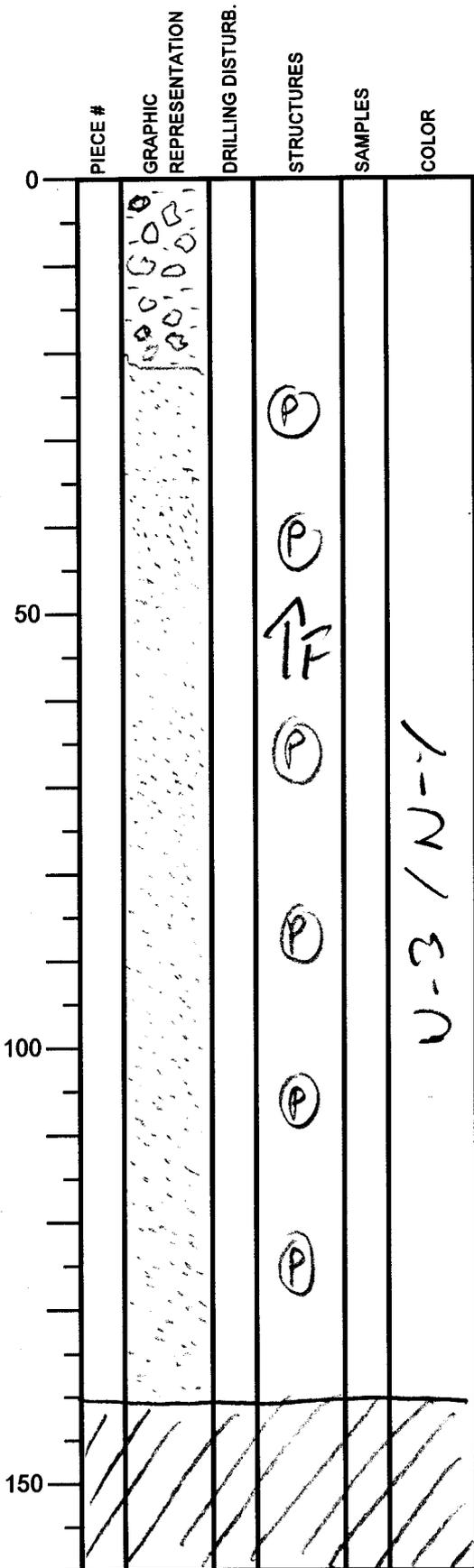
OBSERVER: J.L.

EOC = 38 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 639
 DATE: 29/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 50X
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

Zone of mud with
 very high content of clay
 clots

OBSERVER: J. C.

Gray - dark gray
 Gravelly sand with pumice,
 fining upward

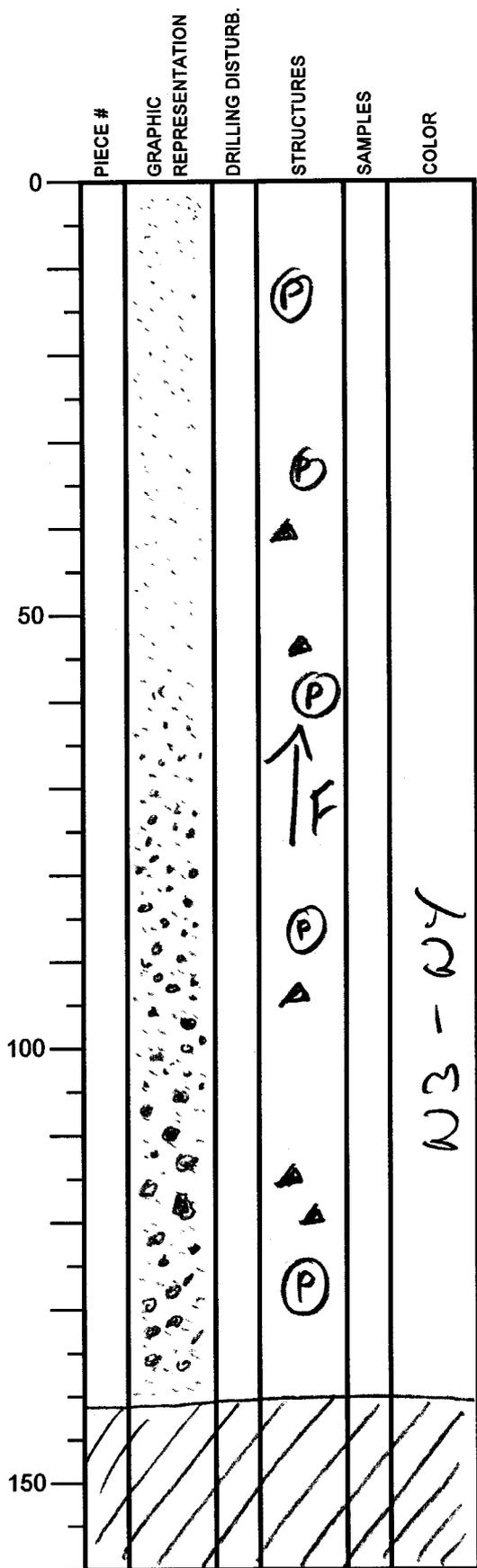
U-3 / N-1

EOC = 140C-

Integrated Ocean Drilling Program

Visual Core Description

NO. 640
 DATE: 29/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 50X
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *Jal*

Gray - dark gray
 upward fining gravelly
 sand comprising clay
 clasts and pumice

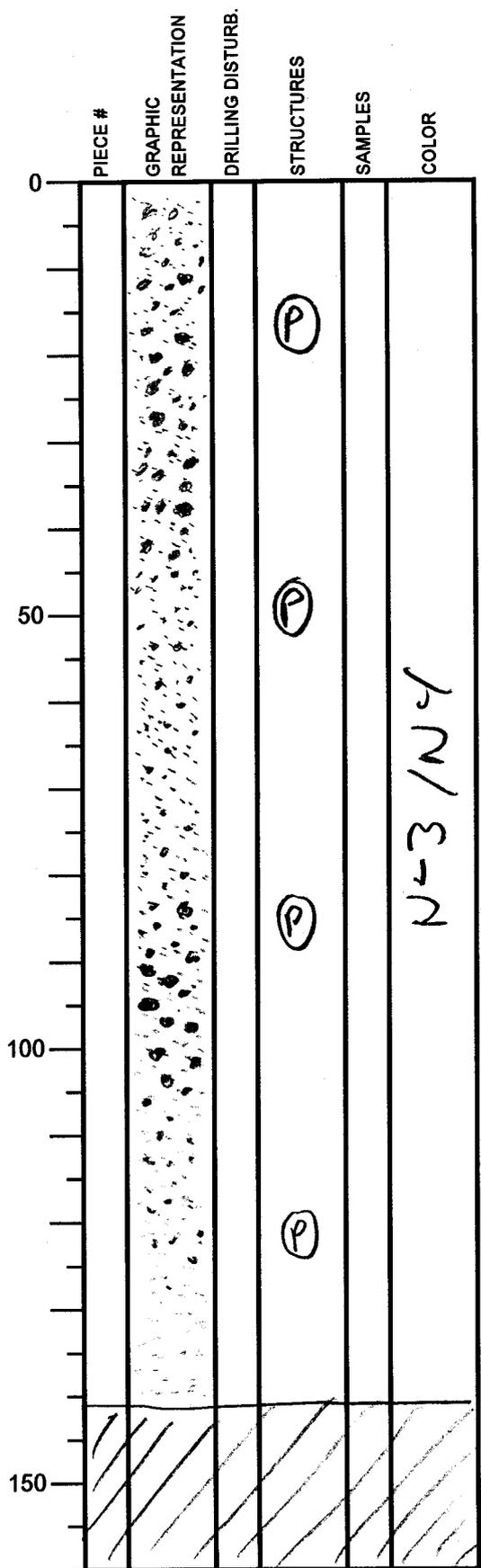
W3-W4

EOC = 141 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 641
 DATE: 29/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: S04
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: JEL

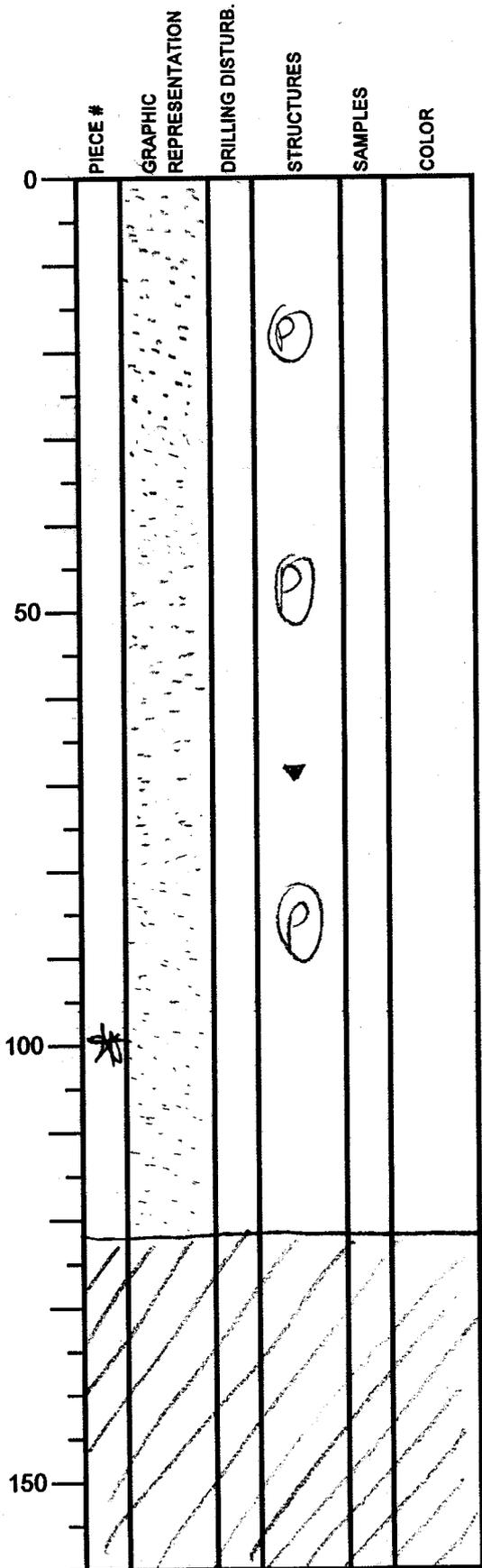
Gray - dark gray
 gravelly sand, highest
 gravel content towards
 the top of the core - 85-105
 cm depth.

EOC = 141.5 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 642
 DATE: 21/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 50X
 SECTION: 4
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

J. L.

Gray - dark gray massive sand comprising fine and some mud-clasts.

** Smear slide at 100 cm*

EOC = 122 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 643
 DATE: 29/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 50X
 SECTION: CC
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: *JCL*

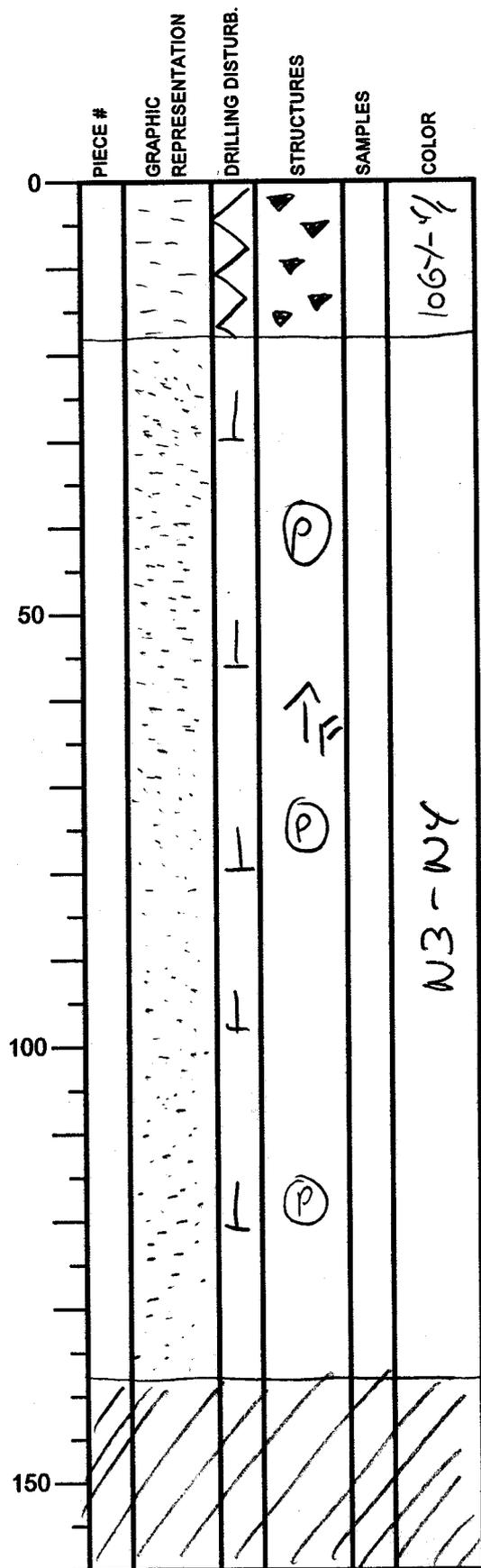
	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		(stippled pattern)				
		(diagonal hatching) PAL				
		(stippled pattern)				W3
50		(diagonal hatching)				
100		(diagonal hatching)				
150		(diagonal hatching)				

EOC = 28 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 644
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: COO11 D
 CORE: SIX
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

Mud with high content of mud clasts - due to extensive drilling disturbance?

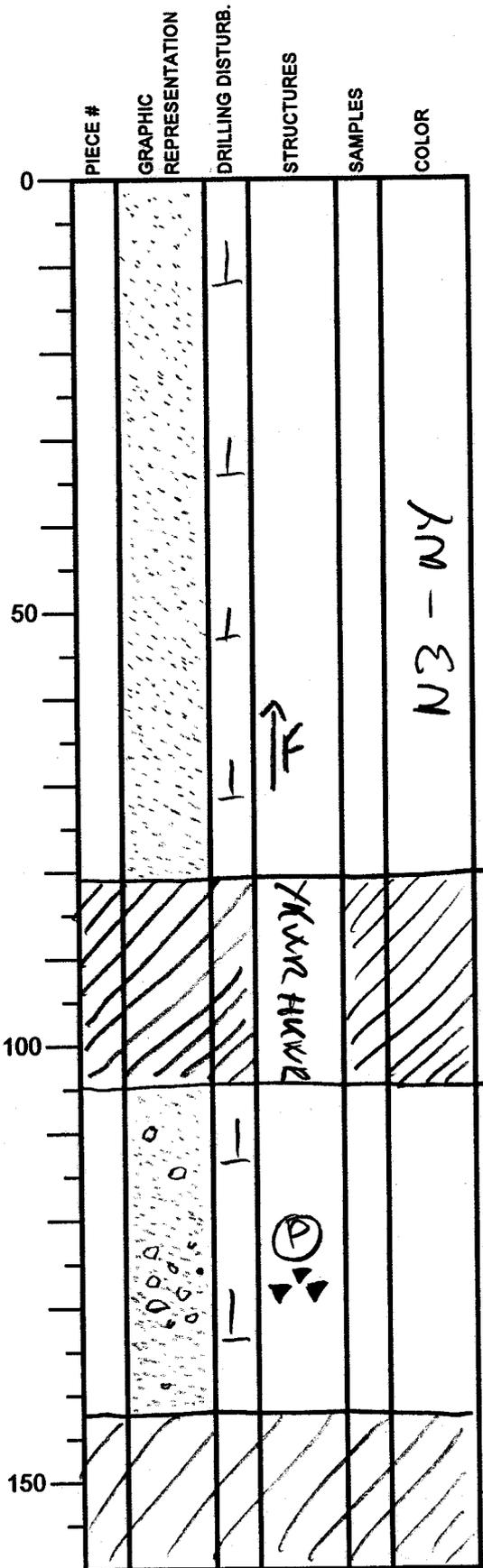
OBSERVER: JAL

Massive, gray - dark gray sand with some pumice

EOC = 138 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 645
 DATE: 29/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 51X
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *Jac*

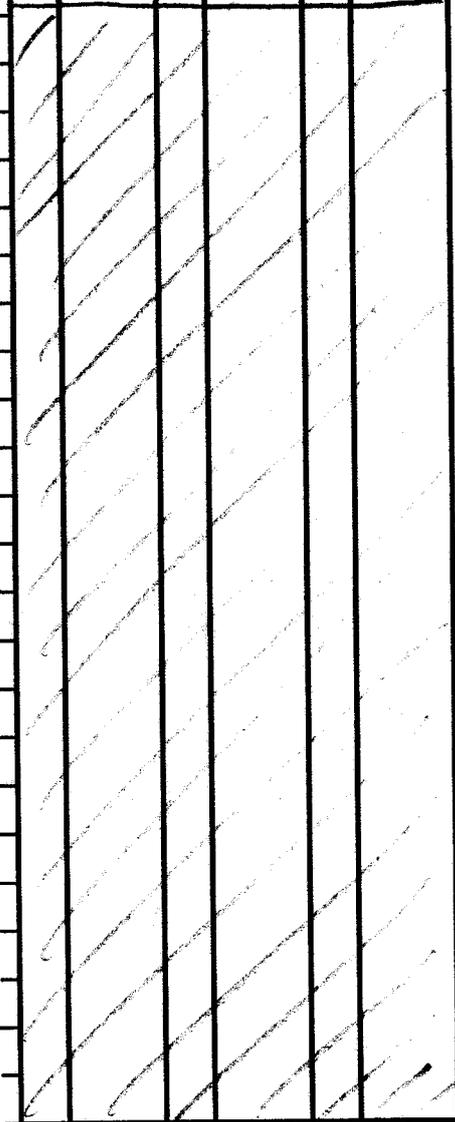
*Massive, gray-dark gray
 sand with some purple
 - larger clasts of purple and
 clay clast in a zone
 at 125-135 cm depth.*

EOC = 142 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 646
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 51X
 SECTION: 3
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						W3-W4
50						
100						
150						

SECTION DESCRIPTION

OBSERVER: *JAL*

*Massive, gray-dark gray
 gravelly sand including
 clay clasts and pumice*

EOC = 44 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 647
 DATE: 7/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: SIX
 SECTION: 4
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		D O	L			
50		L	L	↑ F		M3-NY
100		L				
150		L				

SECTION DESCRIPTION

OBSERVER: *YKL*

Same as above

* Smear slide at 70 cm

EOC = 79 cm

Integrated Ocean Drilling Program Visual Core Description

NO. 648
 DATE: 29/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: 51X
 SECTION: CC
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0		(stippled pattern)		(P)		
				↑ f		
50				(P)		
				(P)		
				PAL		
100		(diagonal hatching)				
150		(diagonal hatching)				

SECTION DESCRIPTION

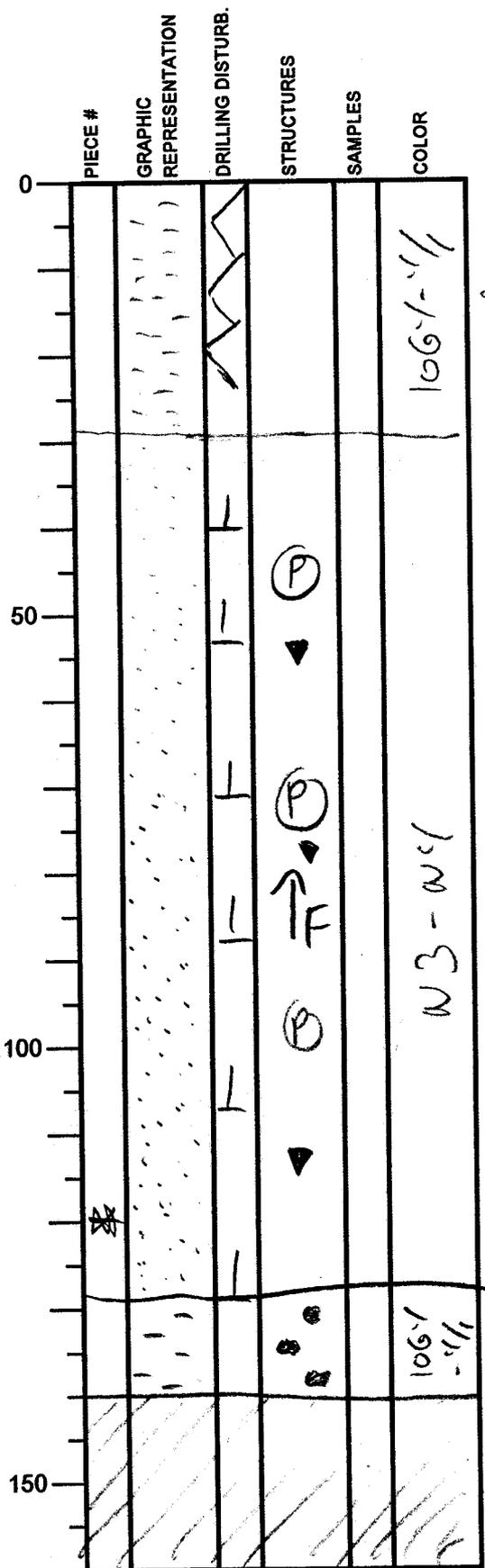
OBSERVER: *Ja L*

EOC = 63.5m

Integrated Ocean Drilling Program

Visual Core Description

NO. 649
 DATE: 2/12/2010
 EXP.: 333
 SITE/HOLE: C0011D
 CORE: S2Y
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

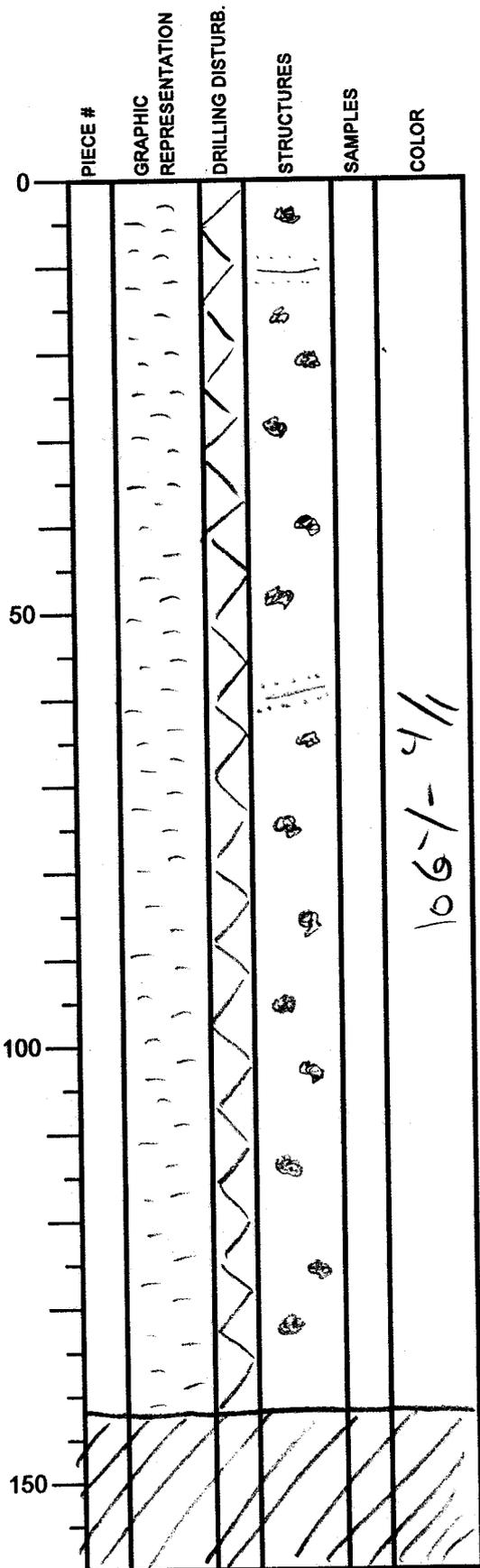
Heavily disturbed
 clung coring (except for the
 lowermost part) JCL

Normal graded, gray-drk
 gray med-coarse sand.
 - at the top and bottom
 of this section -
 wavy mudstone

Smear slide at 120cm

Integrated Ocean Drilling Program Visual Core Description

NO. 650
 DATE: 2/14/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: 52X
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: JEL

Dark greenish gray
 mudstone with profuse
 color mottling and some
 color bedding → heavily
 bioturbated

EOC = 142 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 651
 DATE: 9/12/2010
 EXP.: 333
 SITE/HOLE: COO11D
 CORE: S2X
 SECTION: 3
 TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			/ / / / /	• • • • •		1/2 - 2901
50		/ / / / /	/ / / / /	YWR AWR		/ / / / /
100		/ / / / /	/ / / / /			/ / / / /
150		/ / / / /	/ / / / /			/ / / / /

SECTION DESCRIPTION

OBSERVER:

JL

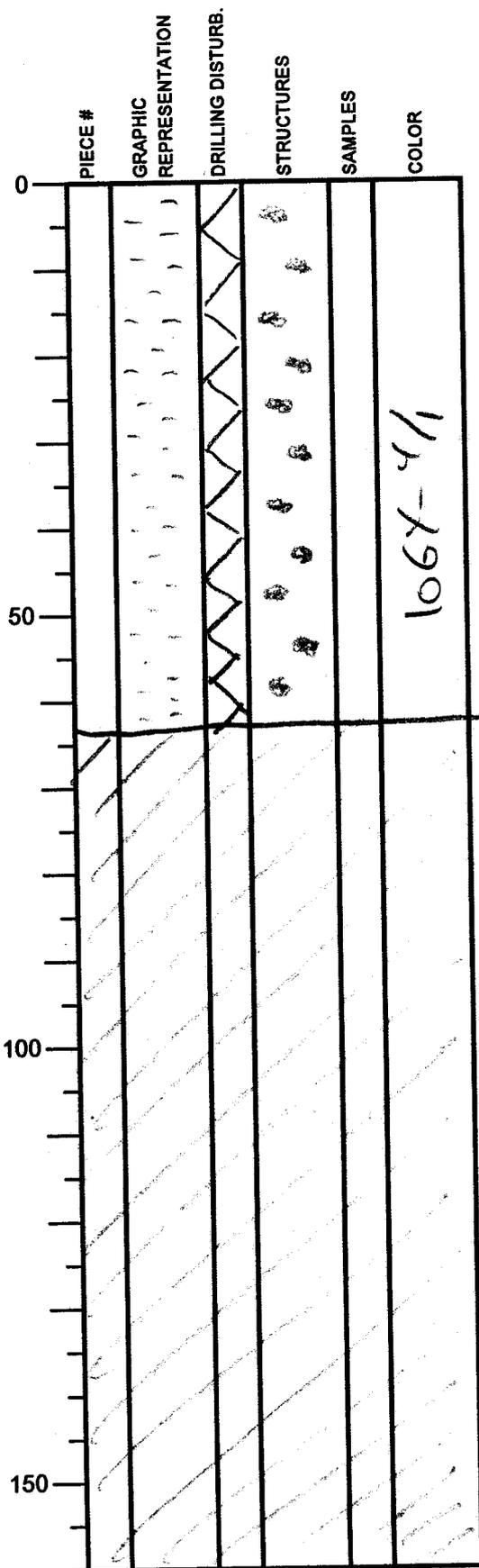
Same as above

EOC = 75 cm.

Integrated Ocean Drilling Program

Visual Core Description

NO. 652
 DATE: 29/12/2010
 EXP.: 303
 SITE/HOLE: COO11D
 CORE: 52X
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

YCL

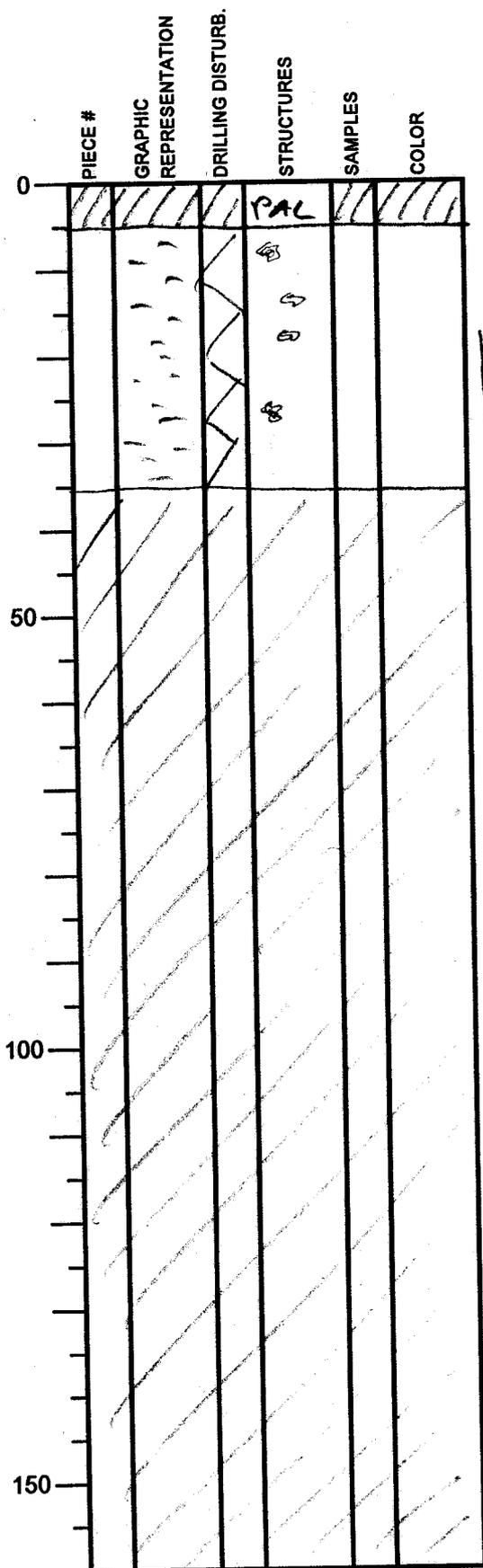
Same as above

EOC = 63 cm

Integrated Ocean Drilling Program

Visual Core Description

NO. 653
 DATE: 29/12/2010
 EXP.: 333
 SITE/HOLE: C00110
 CORE: S2X
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: JAL

Zone 1A - 20-25 cm with very little bioturbation

Smear slide at 21 cm.

EOC 35 cm