

# Integrated Ocean Drilling Program

## Visual Core Description

fine silty clay / coarse sandy silt.

NO. 1

DATE: 7/12/2013

EXP.: 348

SITE/HOLE: C0002 M

CORE: 1R

SECTION: 01

TOP DEPTH (m CSF): 475

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
10				SS 9a	green gray
20					gray
30					gray
40					greenish gray
50					
60					
70					
87				SS 9b	
100					
107					
125				SS	green gray
140					gray
150					

### SECTION DESCRIPTION

shell fragments? (white inside with a black rim) bioturbation

15.5cm: bottom turbidite coarse graded bedding burrows / bioturbation

fining upward

gray layers disturbed on bottom, sharp boundary on top (11cm) coarse

burrows / bioturbation

10Y 3/2

75cm foraminifera

bioturbation

WR

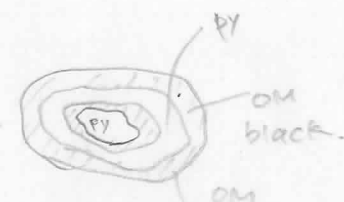
lense filled with forams organic

organic (pyrite?) 125/128

lense filled with forams 135.5-137 darker gray sand

fining upward?

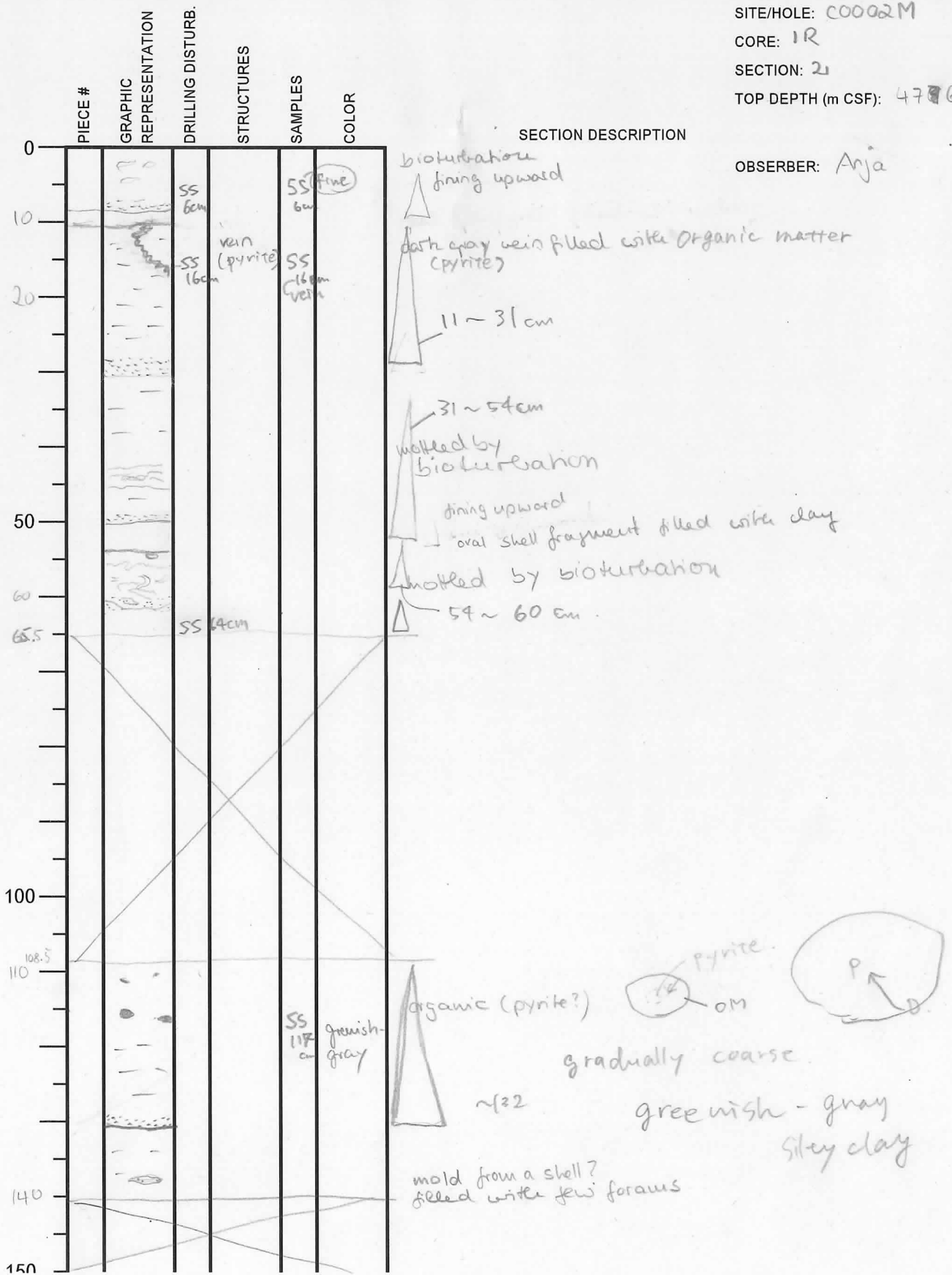
OBSERVER: Anja / Rina



# Integrated Ocean Drilling Program

## Visual Core Description

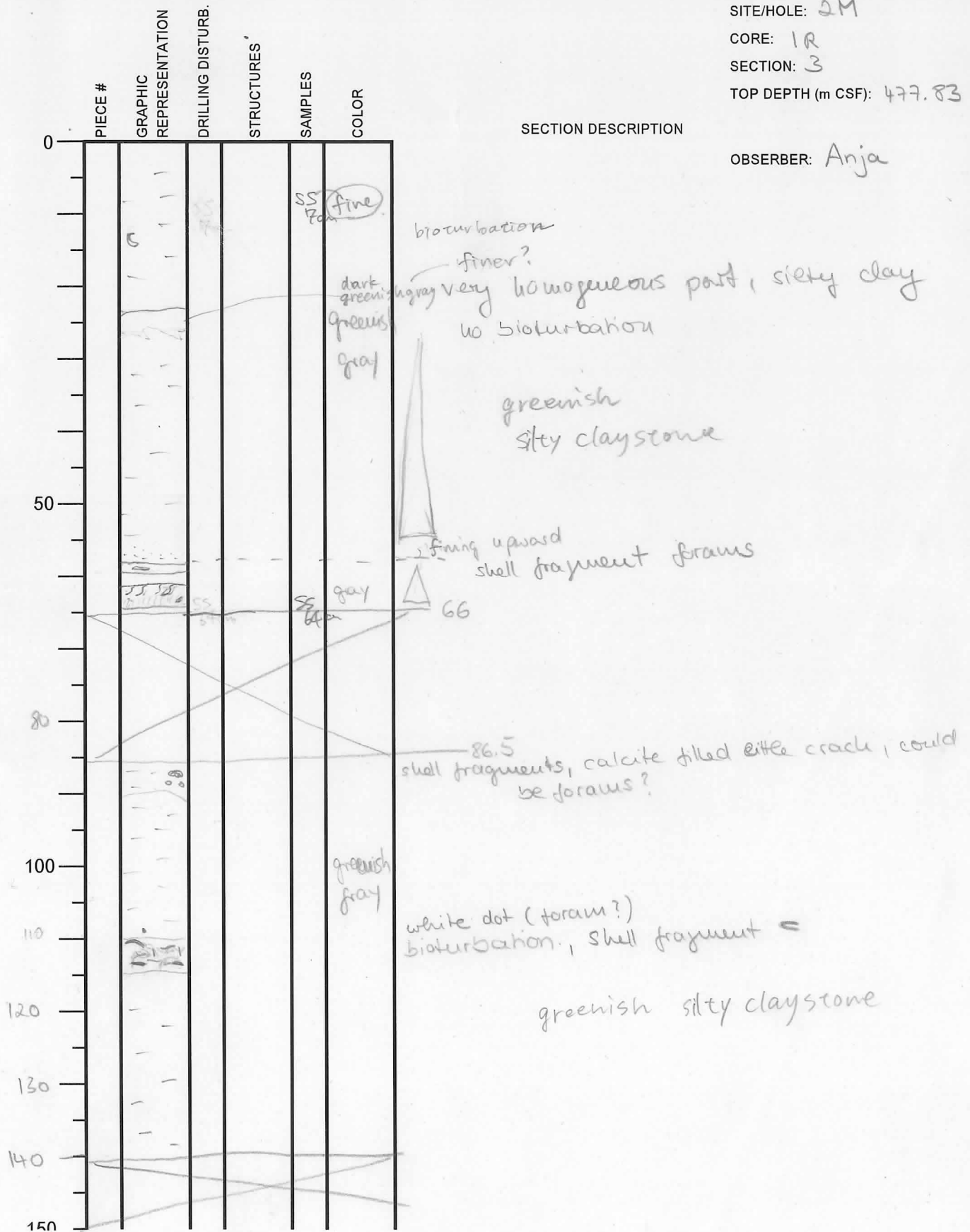
NO. 2  
 DATE: 7/12/2013  
 EXP.: 348  
 SITE/HOLE: C0002M  
 CORE: 1R  
 SECTION: 2  
 TOP DEPTH (m CSF): 476.4



OBSERVER: Anja

# Integrated Ocean Drilling Program Visual Core Description

NO. 3  
 DATE: 7/12/2013  
 EXP.: 348  
 SITE/HOLE: 2M  
 CORE: 1R  
 SECTION: 3  
 TOP DEPTH (m CSF): 477.83

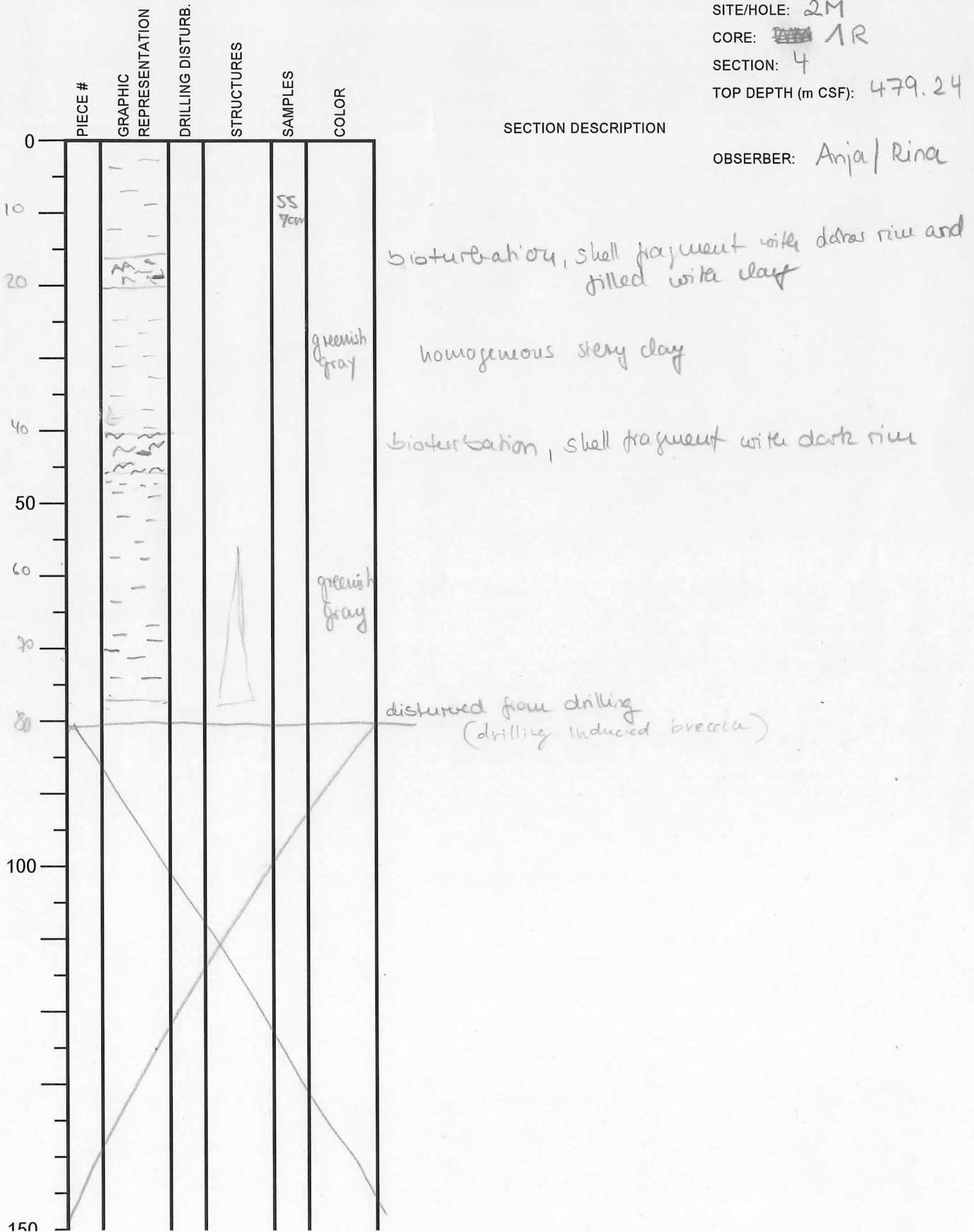


OBSERVER: Anja

# Integrated Ocean Drilling Program Visual Core Description

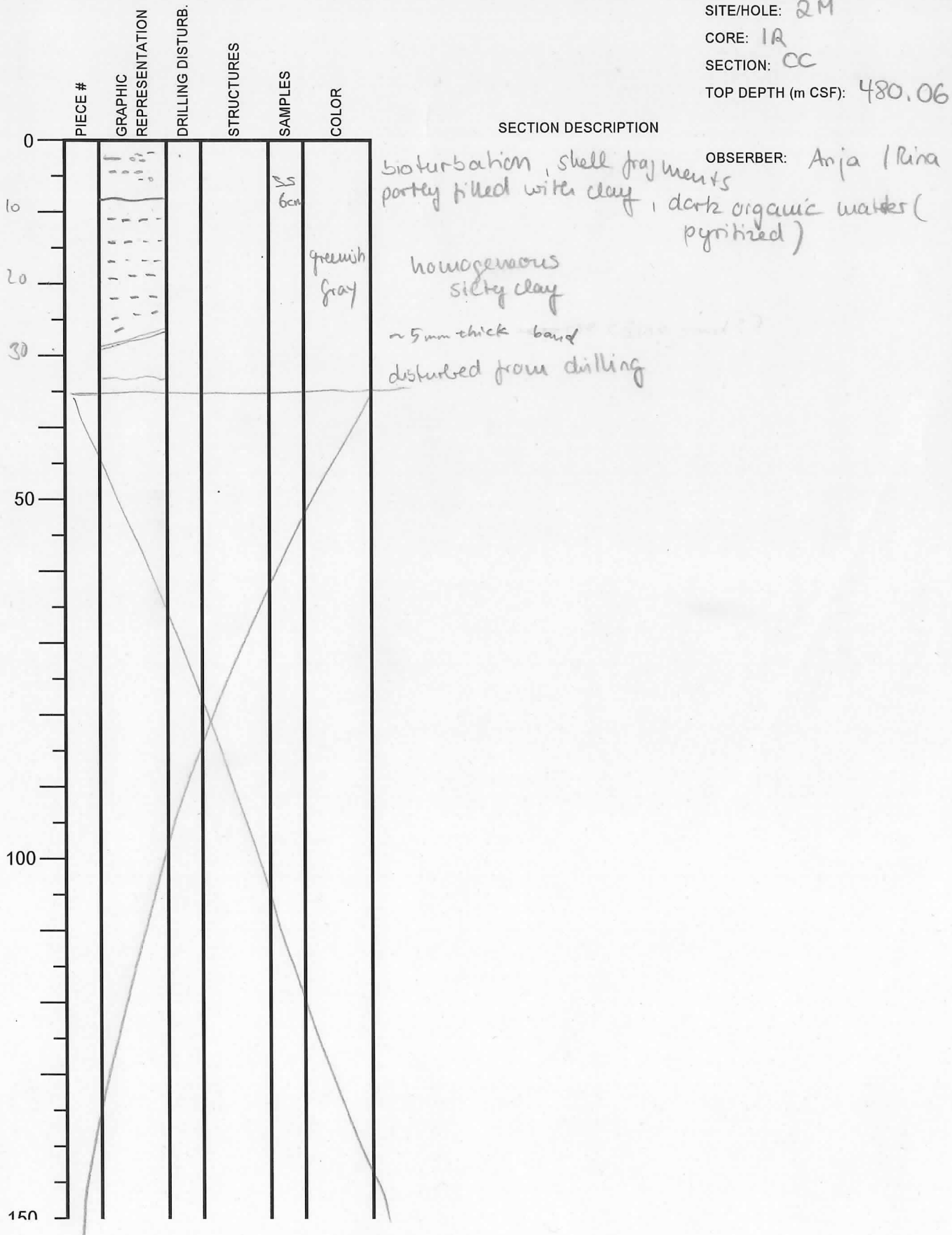
NO. 4  
 DATE: 7/12/2013  
 EXP.: 348  
 SITE/HOLE: 2M  
 CORE: ~~2M~~ 1R  
 SECTION: 4  
 TOP DEPTH (m CSF): 479.24

OBSERVER: Anja/Rina



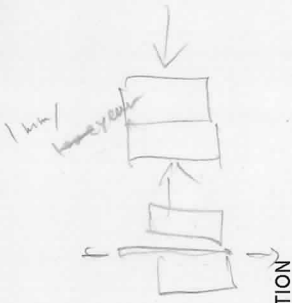
# Integrated Ocean Drilling Program Visual Core Description

NO. 5  
 DATE: 7/12/20 13  
 EXP.: 348  
 SITE/HOLE: 2M  
 CORE: 1A  
 SECTION: CC  
 TOP DEPTH (m CSF): 480.06



# Integrated Ocean Drilling Program

## Visual Core Description



lamine ~ ~~thick~~ thin  
Bedding ~~thin~~ thick

NO. 6  
DATE: 7/17/2013  
EXP.: 348  
SITE/HOLE: C0002M  
CORE: 2R  
SECTION: 01  
TOP DEPTH (m CSF):

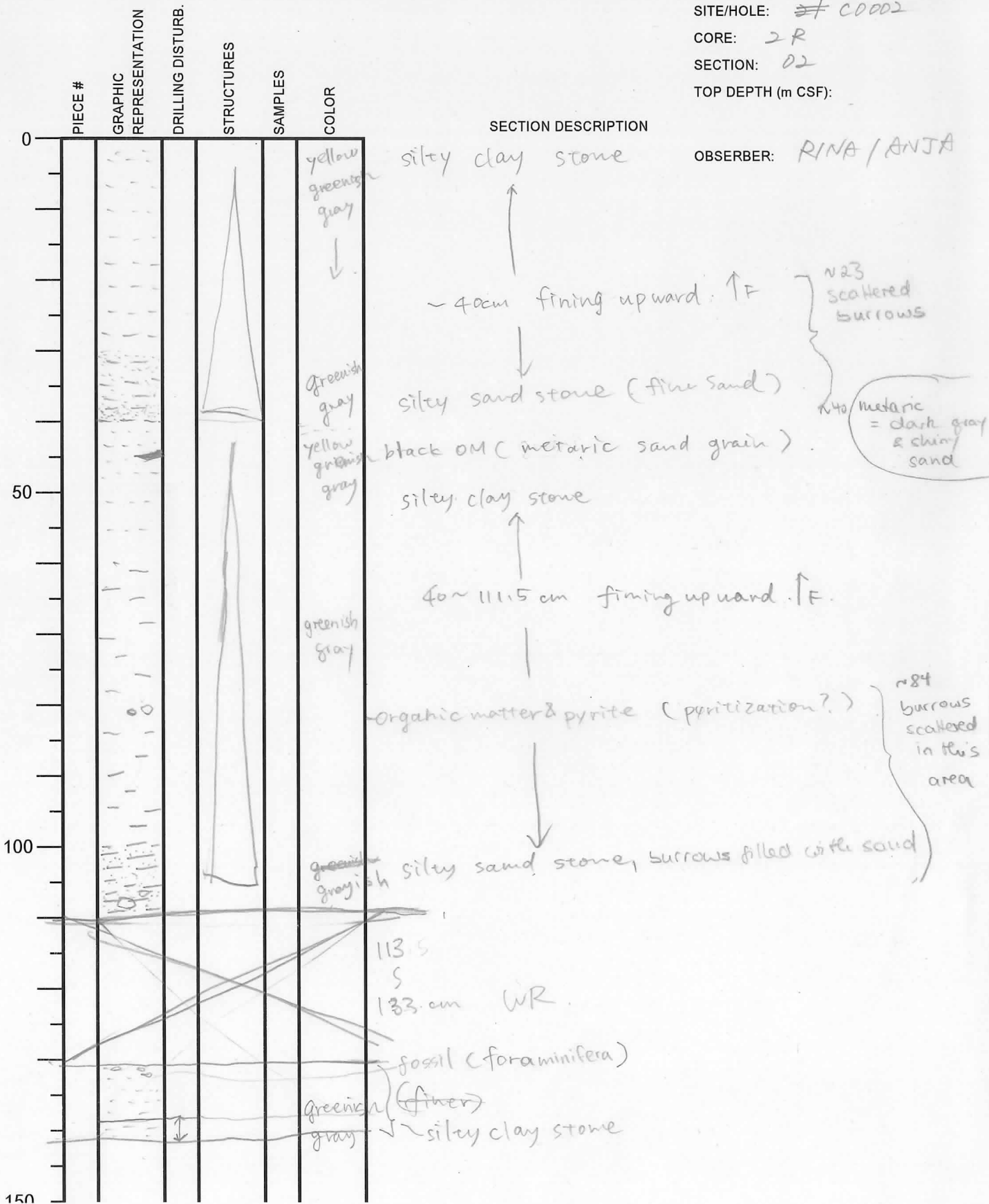
OBSERVER: RINA / ANJA

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0						coarse sandy silt fine silt clay fossil (shell fragment)
				SS 50cm 60cm fine	yellow greenish gray	bioturbation shell fragment 25 cm coarse silt
30						shell fragment & organic matter. (black coarse grain) silty clay
50				SS 50cm lamina		lamina (sand) 50 cm (planar) lamina (sand) 53 ~ 55 cm (planar) shell fragment in sandy layer. (lamina)
						burrow filled with sand <del>homogeneous</del> silty clay stone.
					greenish gray	lamina (sand) layer. 85 cm (planar) homogeneous clay stone.
100						104 ~ 105 cm sandy lamina silty lamina .111 (0.5 cm) shell fragment very thin sandy lamina
						bioturbation (burrows) ⇒ 133-137 cm coarse silty clay
141						137 cm shell fragment.
150						

# Integrated Ocean Drilling Program

## Visual Core Description

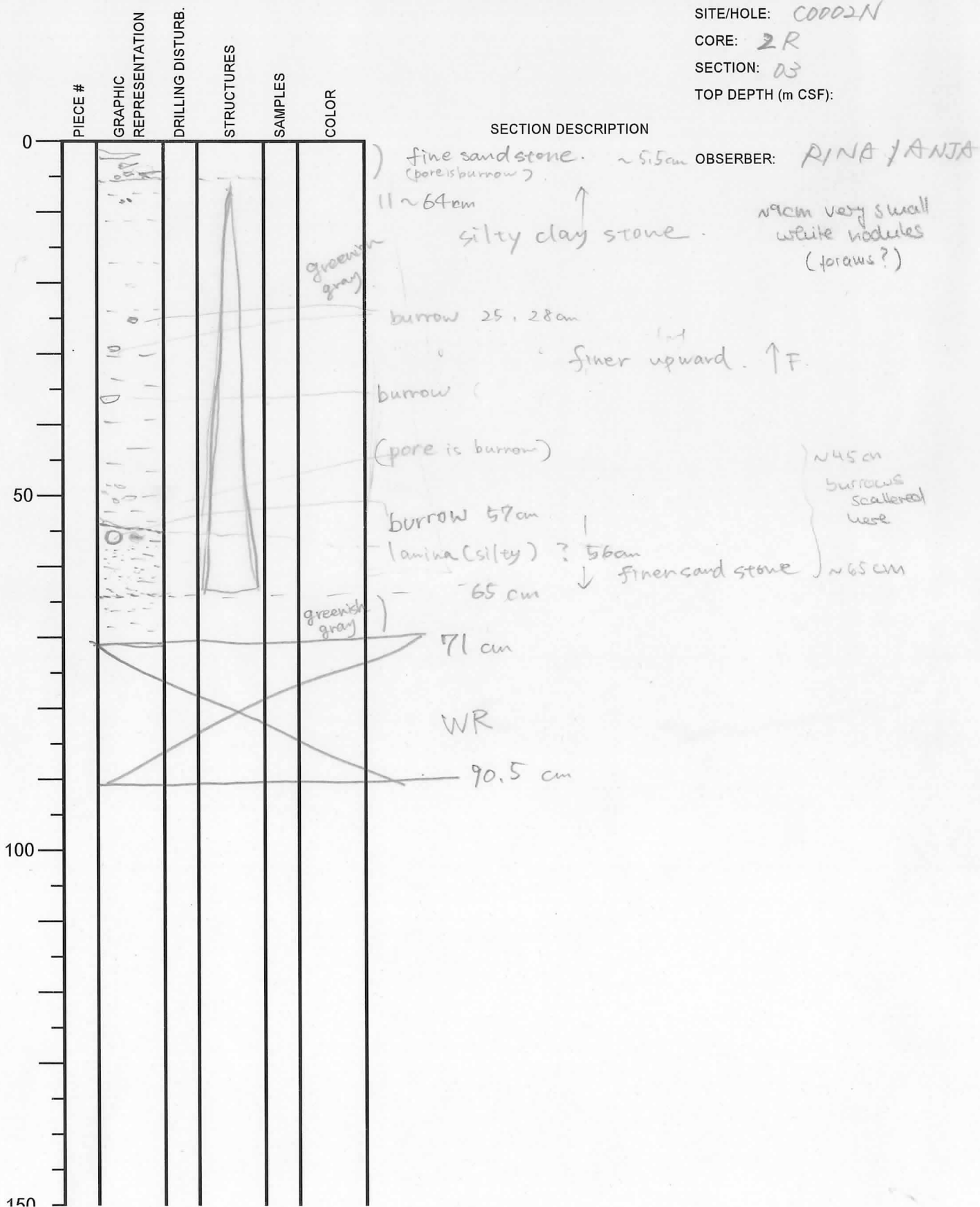
NO. 7  
 DATE: 7/17/20 13  
 EXP.: 348  
 SITE/HOLE: # C0002  
 CORE: 2R  
 SECTION: 02  
 TOP DEPTH (m CSF):



# Integrated Ocean Drilling Program

## Visual Core Description

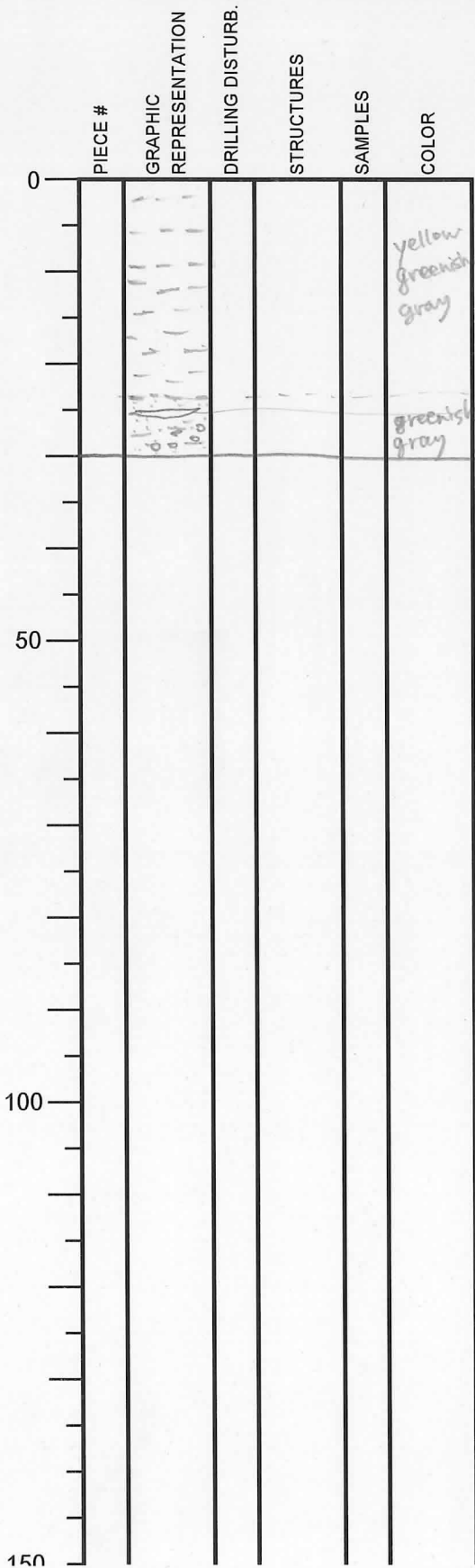
NO. 8  
 DATE: 7/1/2013  
 EXP.: 248  
 SITE/HOLE: C0002N  
 CORE: 2R  
 SECTION: 03  
 TOP DEPTH (m CSF):





# Integrated Ocean Drilling Program Visual Core Description

NO. 9  
 DATE: 7/12/20 13  
 EXP.: 348  
 SITE/HOLE: C0002N  
 CORE: 2R  
 SECTION: CC  
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

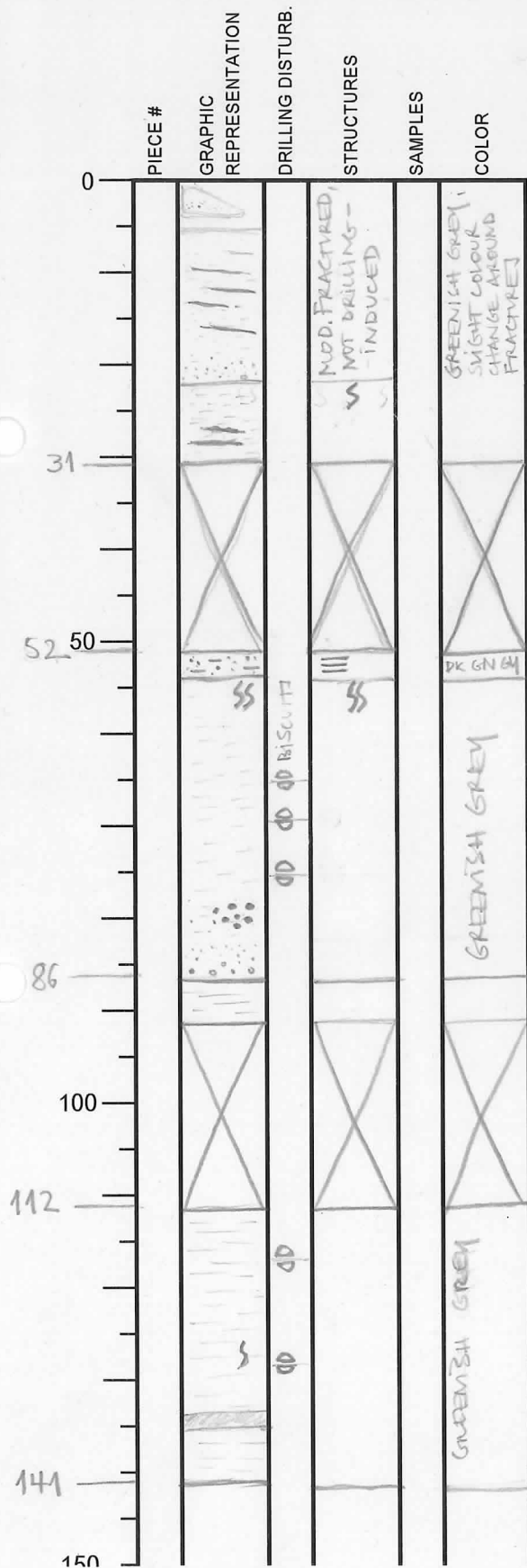
OBSERVER: RINA ANJA

# Integrated Ocean Drilling Program

## Visual Core Description

NO. 10  
 DATE: 8/12/2013  
 EXP.: 348  
 SITE/HOLE: C0002M  
 CORE: 3R  
 SECTION: 1  
 TOP DEPTH (m CSF): 493.5m

OBSERVER: ANA/CHEN/EMILIE



### SECTION DESCRIPTION

MUDSTONE: SANDY - SILTY BETWEEN 20 - 22 cm, FINING UPWARD GRADATION, SLIGHTLY BRITTLE; SOME LOW ANGLE FRACTURES (POSS. RELATED TO FA). NO BIOTURBATION, NO OBSERVED FOSSILS, NO PYRITIZED NODULES.

SILTY CLAYSTONE/MUDSTONE: VERY HOMOGENEOUS, LESS FRACTURED THAN ABOVE; FEW SHELL FRAGMENTS, SLIGHT BIOTURBATION (22-24 cm) → USUALLY DARKER IN COLOUR - MORE ARGILLACEOUS PORTION OF THE SEQUENCE

SILTY-SANDY MUDSTONE, VERY FINELY-GRAINED, SLIGHTLY DARKER IN COLOUR, POSSIBLY SLIGHT PLANAR BEDDING.

MUDDY TURBIDITIC SEDIMENTS: SANDY AT BOTTOM (83-86 cm), GRADUALLY FINING UPWARD, GREENISH GREY, SLIGHTLY DARKER IN COLOUR IN SANDY AND MORE ARGILLACEOUS PLACES; FEW SCATTERED FOSSILS (SHELL FRAGMENTS); RARE BLACK SPECKS (ORGANIC MATTER?); MOTTLED TEXTURE (80-84 cm); MODERATELY HARD TO FIRM

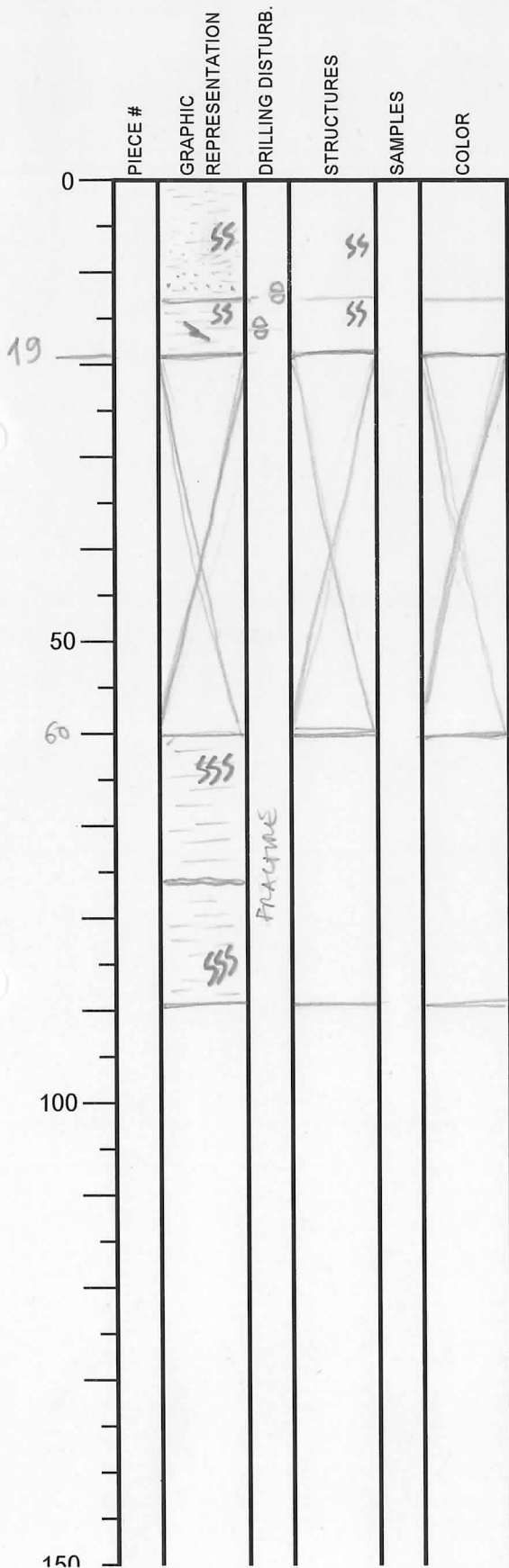
CLAYSTONE: POSSIBLY SILTY - NO GRAINS OBSERVED, VERY HOMOGENEOUS, MODERATELY HARD; FEW SCATTERED BURROWS.  
 → HEMIPELAGIC MUDS?

→ DARK GREENISH GREY BAND

# Integrated Ocean Drilling Program

## Visual Core Description

NO. 11  
 DATE: 8/17/2013  
 EXP.: 348  
 SITE/HOLE: C0002M  
 CORE: 3R  
 SECTION: 2  
 TOP DEPTH (m CSF): 485.91



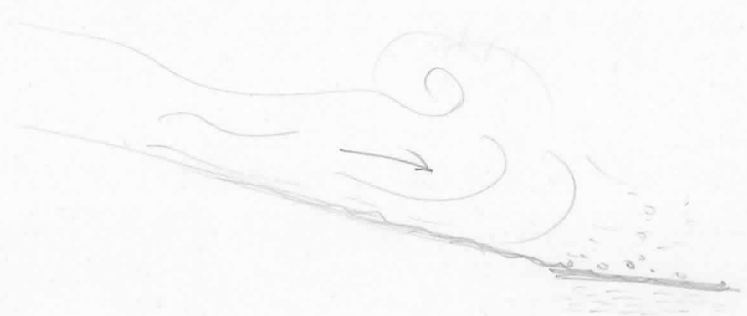
### SECTION DESCRIPTION

OBSERVER: ANA/CHEN

SILTY MUDSTONE / CLAYSTONE:  
 GREENISH GREY, SLIGHT FINING  
 UPWARD GRADATION; MODERATELY  
 BIOTURBATED (WORM BURROWS).

CLAYSTONE: SILTY-SANDY IN PLACES,  
 BIOTURBATED; SLIGHT COLOUR CHANGE  
 AROUND FRACTURES; BLACKISH SPECKS.

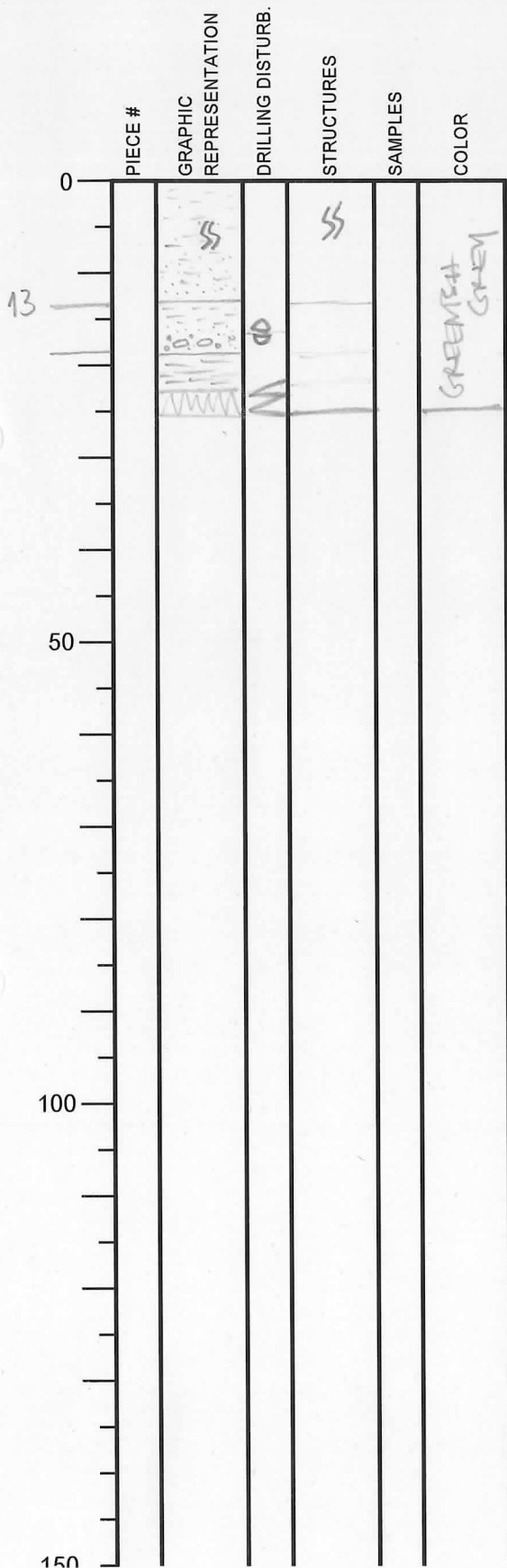
CLAYSTONE: GREENISH GREY, <sup>VERY</sup> SLIGHT  
 COLOUR BANDING, <sup>VERY</sup> HOMOGENEOUS,  
 MODERATELY HARD-FIRM, <sup>VERY</sup>  
 BIOTURBATED (BURROWS)



# Integrated Ocean Drilling Program

## Visual Core Description

NO. 12  
 DATE: 8/12/20 13  
 EXP.: 348  
 SITE/HOLE: C0002M  
 CORE: 3R  
 SECTION: CC  
 TOP DEPTH (m CSF): 488.225M



### SECTION DESCRIPTION

OBSERVER: ANA / CHEN

SILTY MUDSTONE: SLIGHT FINING UPWARD GRADATION, MODERATELY BIOTURBATED < 10 CM (IN CLAYSTONE).

MUDDY TURBIDITIC SEDIMENTS: SLIGHT FINING UPWARD GRADATION, WITH FEW CLAY CLASTS AT THE BOTTOM (EROSIONAL SURFACE).

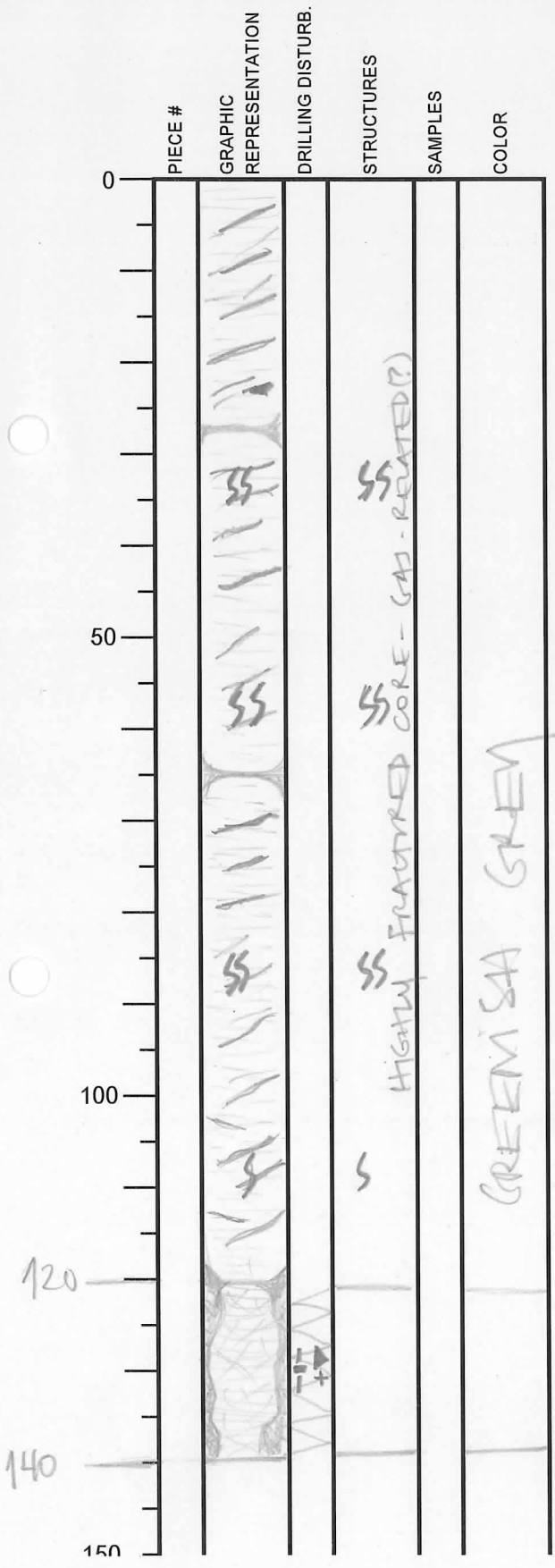
CLAYSTONE: VERY HOMOGENEOUS, SLIGHTLY LIGHTER IN COLOR THAN ABOVE.

(→ HEMIPELAGIC SEDIMENTS?)

# Integrated Ocean Drilling Program

## Visual Core Description

NO. 13  
 DATE: 8/12/2013  
 EXP.: 348  
 SITE/HOLE: C0002M  
 CORE: 4R  
 SECTION: 1  
 TOP DEPTH (m CSF): 503 m



SECTION DESCRIPTION

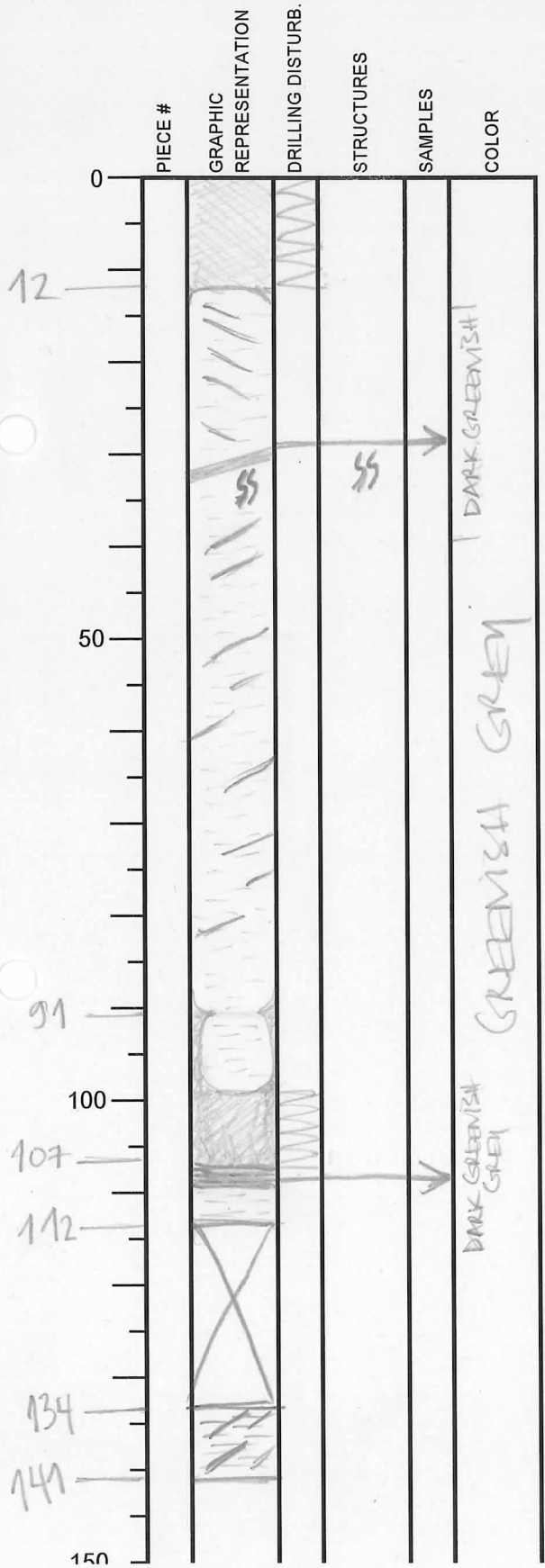
OBSERVER: ANA/CHEN

CLAYSTONE: GREENISH GREY,  
 MODERATELY HARD - FIRM,  
 BRITTLE, VERY HOMOGENEOUS,  
 BIOTURBATED IN PLACES (BURROW),  
 FEW BLACK SPECKS OF ORGANIC  
 MATTER (?) - NO PYRITE; HIGHLY  
 FRACTURED, POSSIBLY RELATED TO  
 GAS; COMMON DRILLING  
 DISTURBANCE IN "MOUSSY"  
 TEXTURE

# Integrated Ocean Drilling Program

## Visual Core Description

NO. 14  
 DATE: 8/17/2013  
 EXP.: 348  
 SITE/HOLE: ODP002M  
 CORE: 4R  
 SECTION: 2  
 TOP DEPTH (m CSF): 504.405



SECTION DESCRIPTION

OBSERVER: ANA/CHEN

MOUSSY TEXTURE - CLAYS

CLAYSTONE: GREENISH GREY,  
 MODERATELY HARD - HARD, BRITTLE  
 TO SLIGHTLY FISSILE, VERY HOMO-  
 GENEUS, SLIGHTLY BISTURBATED  
 (41-51 CM; BURROWS); HIGHLY  
 FRACTURED, POSSIBLY RELATED TO  
 GAS. MOUSSY TEXTURE ON CORE

MOUSSY TEXTURE [ DRILING ??  
 GAS ??

MOUSSY TEXTURE - CLAYS

CLAYSTONE: AS ABOVE, NO  
 BISTURBATION

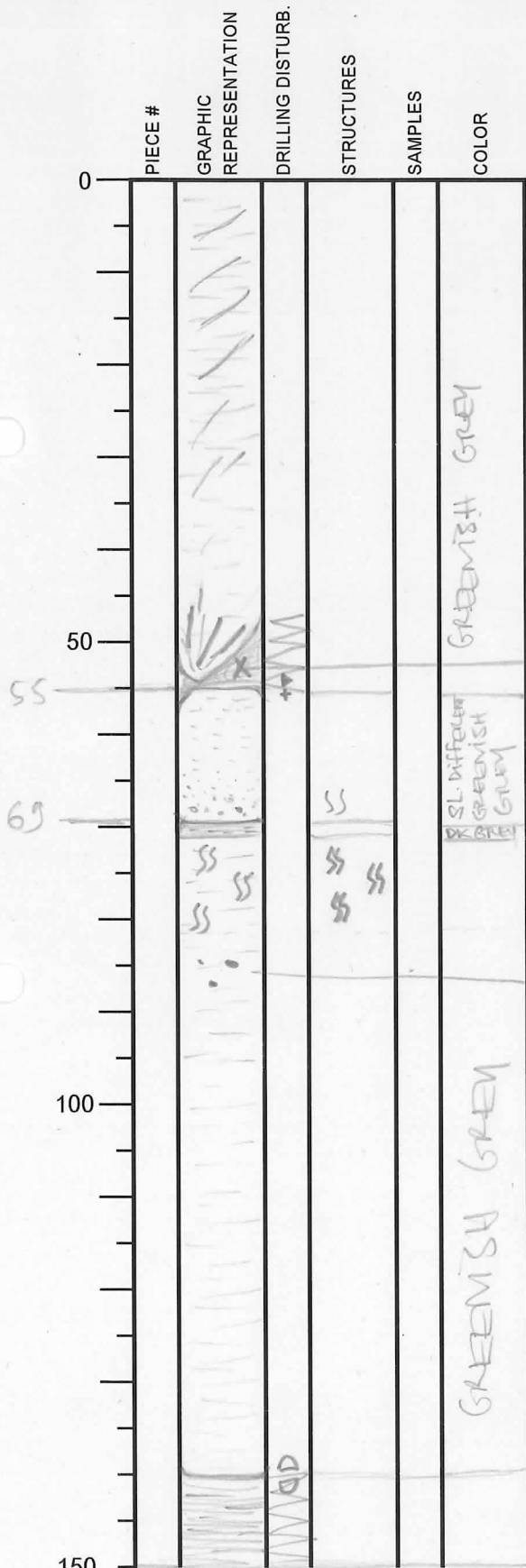
# Integrated Ocean Drilling Program

## Visual Core Description

NO. 15  
 DATE: 8/12/2013  
 EXP.: 348  
 SITE/HOLE: C0002M  
 CORE: 4R  
 SECTION: 3  
 TOP DEPTH (m CSF): 505.82

OBSERVER: ANA / CHEN

### SECTION DESCRIPTION



CLAYSTONE

→ MUDRY TEXTURE - CLAYS  
 MUDDY TURBIDITE INTERVAL:  
 FINING UPWARD GRADATION FROM  
 FINELY SANDY AT BOTTOM (69-65cm)  
 TO CLAYEY SEDIMENT, HARD -  
 FIRM, BIOTURBATED AT BOTTOM  
 (CAVITIES FILLED WITH SANDY MAT.)

CLAYSTONE: MODERATELY  
 BIOTURBATED BETWEEN 71-83cm,  
 VERY HOMOGENEOUS ELSEWHERE,  
 MODERATELY HARD-HARD.

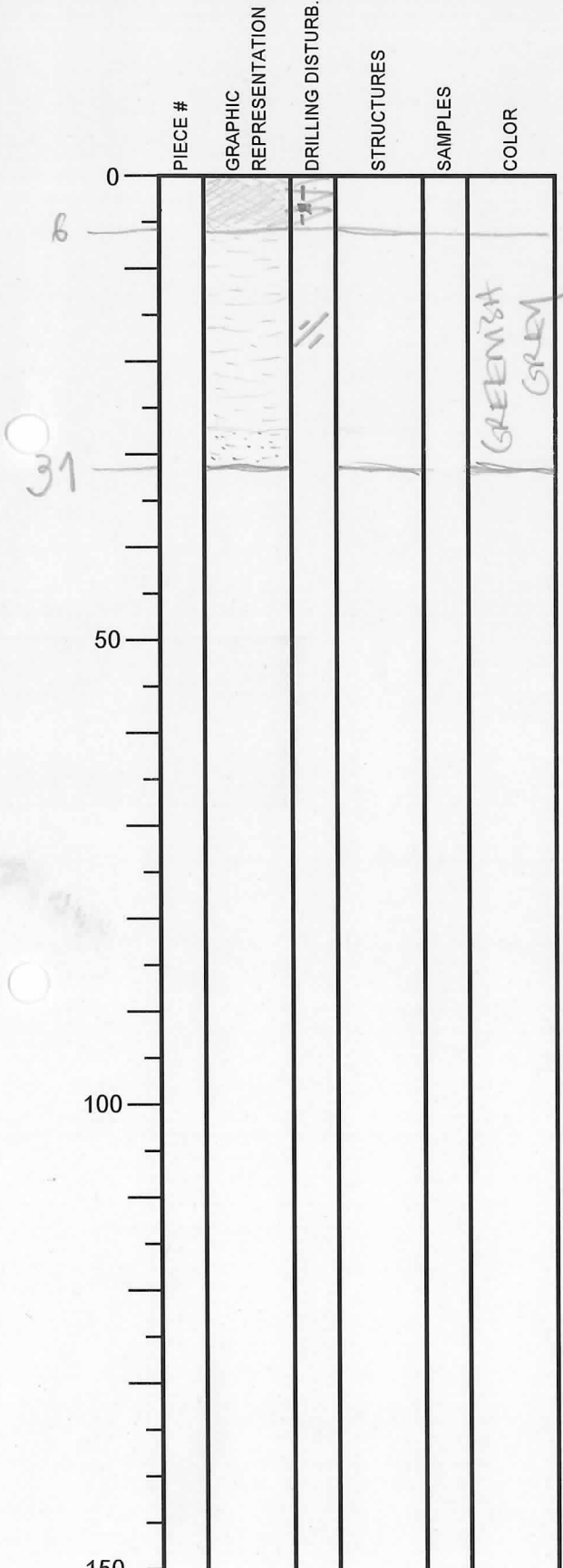
→ FEW BLACK SPECKS PYRITE +  
 ORGANIC MATTER?

HIGHLY FRACTURED CLAYSTONE  
 ↳ DRILLING INDUCED?

# Integrated Ocean Drilling Program

## Visual Core Description

NO. 16  
 DATE: 8/12/2013  
 EXP.: 348  
 SITE/HOLE: C0002M  
 CORE: 4R  
 SECTION: CC  
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: ANA/CHEN

MOUSSY CLAYS

MUDSTONE - CLAYSTONE: SLIGHT  
 FINING UPWARD GRADATION  
 FROM SILTY MUDSTONE TO CLAYSTONE  
 FEW FORAMS.  
 FEW FRACTURES - SLIGHT  
 COLOUR CHANGE AROUND THEM