

International Ocean Discovery Program

Visual core description

* First core *

NO. 1

DATE: 7/10/2024

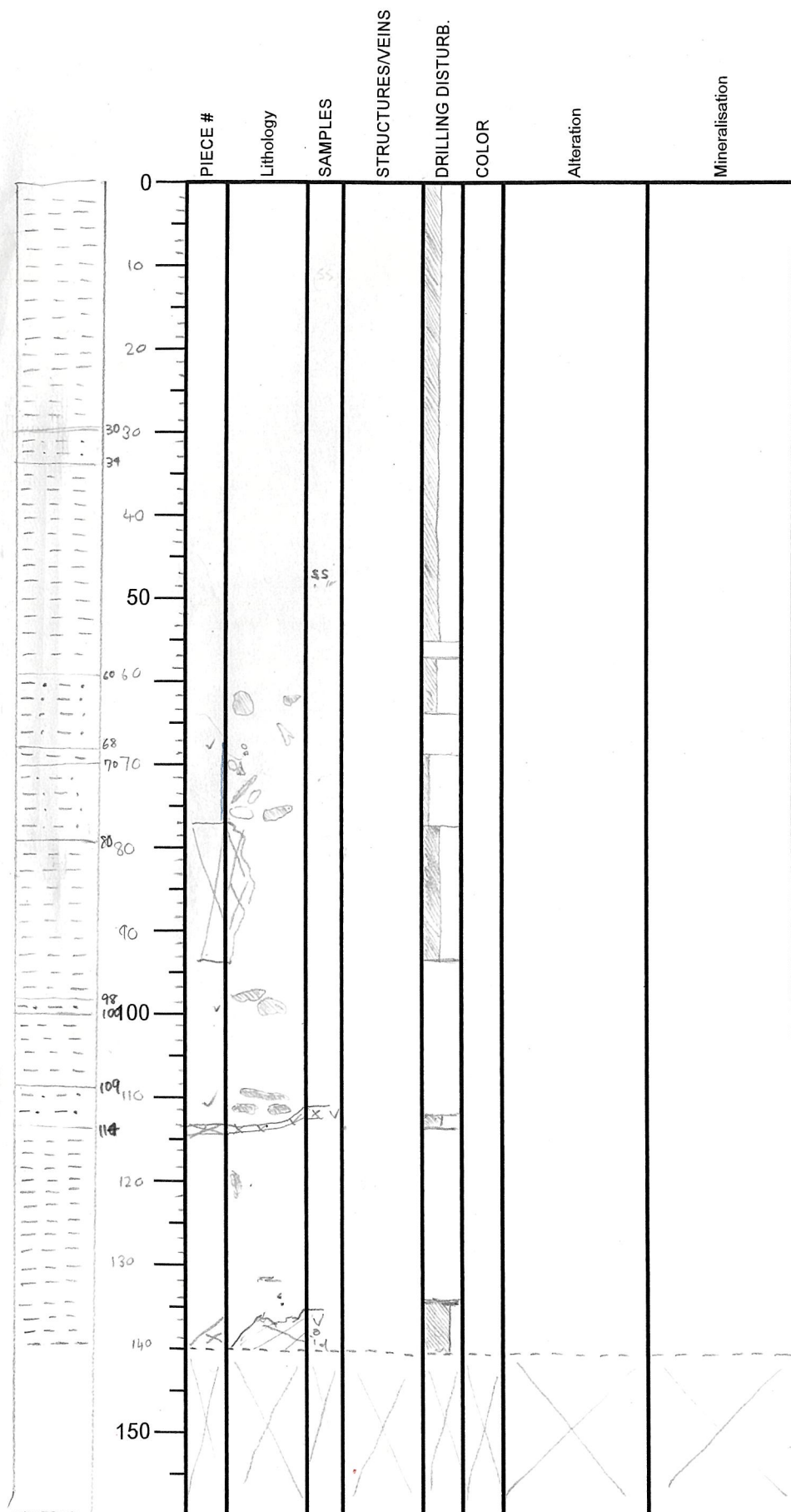
EXP.: 405

SITE/HOLE: C0019 J

CORE: 1K

SECTION: 1

TOP DEPTH (m CSF): 82



SECTION DESCRIPTION

OBSERVER: Amy Gough

Quite disturbed by drilling so hard to see any primary features

slightly coarser silt - some visible grains in the mud (quite micaceous) blocky

smear slide taken from 46cm
Huc 10Y 3/1 olive black mud
Disturbed due to drilling

some burrows (silt) in darker BLACK and some ? burrows in light gray (ash-y)

some burrows (silt) in darker BLACK and some ? burrows in light gray (ash-y)

Olive black mud - some drilling disturbance (no real discernable features)

BURROWS - slightly coarser grained (silt ~~stone~~) and colour change to BLACK

Olive black mud

BURROWS - slightly coarser grained (silt ~~stone~~) and colour change to BLACK

dark patches on surface (corresponds with bright patches on CR) -> slightly coarser (silt) BURROWS

still olive black mud
olive black mud
Base

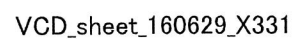
N.B very muddy so many primary structures disturbed

D = disturbed

Visual core description

TOP DEPTH (m CSF):

OBSERVER: Rina Fukachi



International Ocean Discovery Program

Visual core description

NO. 3

DATE: 7 / 10 / 2024

EXP.: 405

SITE/HOLE: C0019 J

CORE: 1K

SECTION: 3

TOP DEPTH (m CSF):

Rina wants
change to
v. fine sand



PIECE #	Lithology	SAMPLES	STRUCTURES/VEINS	DRILLING DISTURB.	COLOR	Alteration	Mineralisation
0		SS					
10							
20							
30			Small ash clasts				
40							
50							
100							
150							

SECTION DESCRIPTION

Olive black ~~very~~ fine sand
Olive black mud
with one squashed pumice
Drilling damage
intercalated silt and mud. Olive back.
Black burrows at the base + some light grey pumice glass
BASE OF CORE

International Ocean Discovery Program

Visual core description

NO. 4

DATE: 7/10/2024

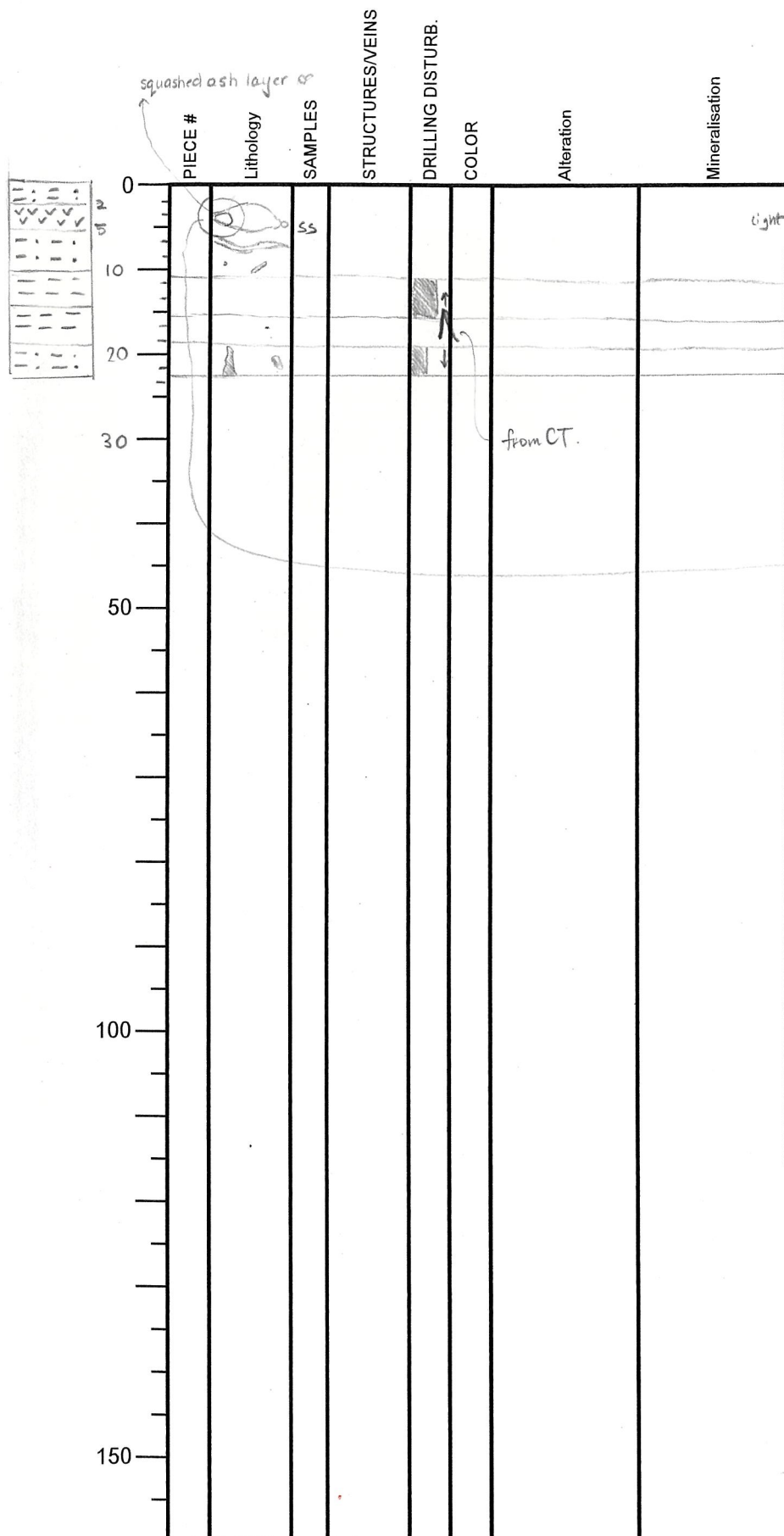
EXP.: 405

SITE/HOLE: C0019J

CORE: ~~1K~~ 1K

SECTION: CC

TOP DEPTH (m CSF):



SECTION DESCRIPTION

olive black mud silt
light Grey ash with grey coarser grained clastic silt
olive black silt with some black burrows (slightly coarser silt)
olive black mud - quite a lot of drilling disturbance
olive black mud - some flecks of ash
olive black silt w/ some drilling disturbance + some darker patches (black) possibly burrows

OBSERVER: Amy GOUCH

Grey + coarser grained (apill)

LIGHT GREY
(almost white)

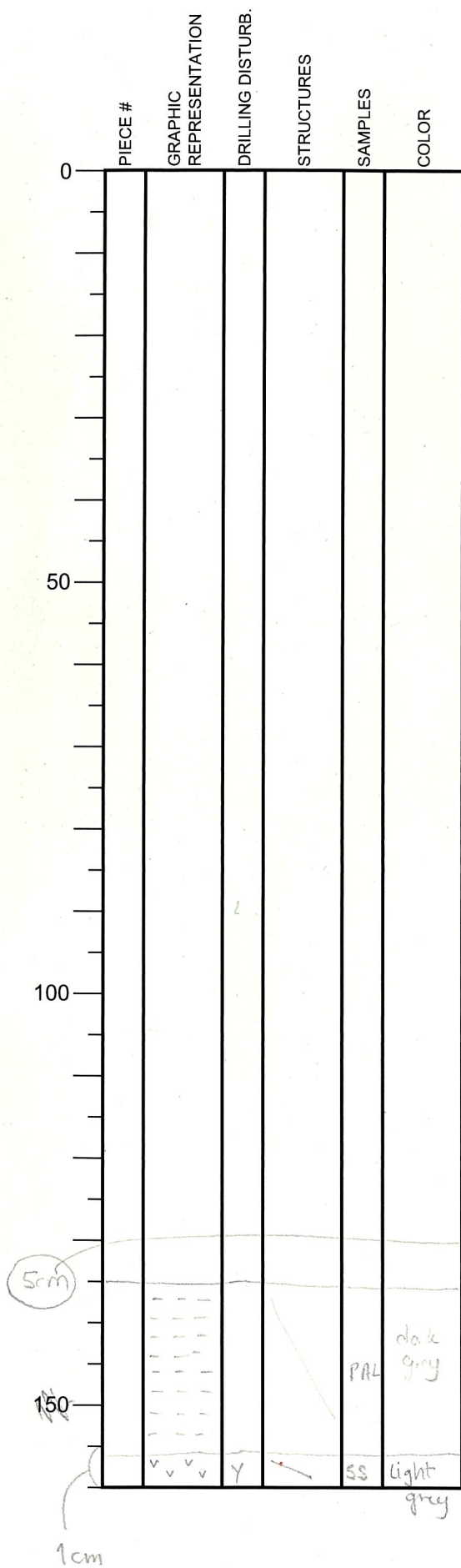
International Ocean Discovery Program Visual Core Description

NO.
DATE: 6 / 1 / 2024
EXP.: 405
SITE/HOLE: C0019J
CORE: core catcher 1
SECTION: 1
TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: Amy Gough

NB description from ash layer in core catcher
- squished down into small core after removal

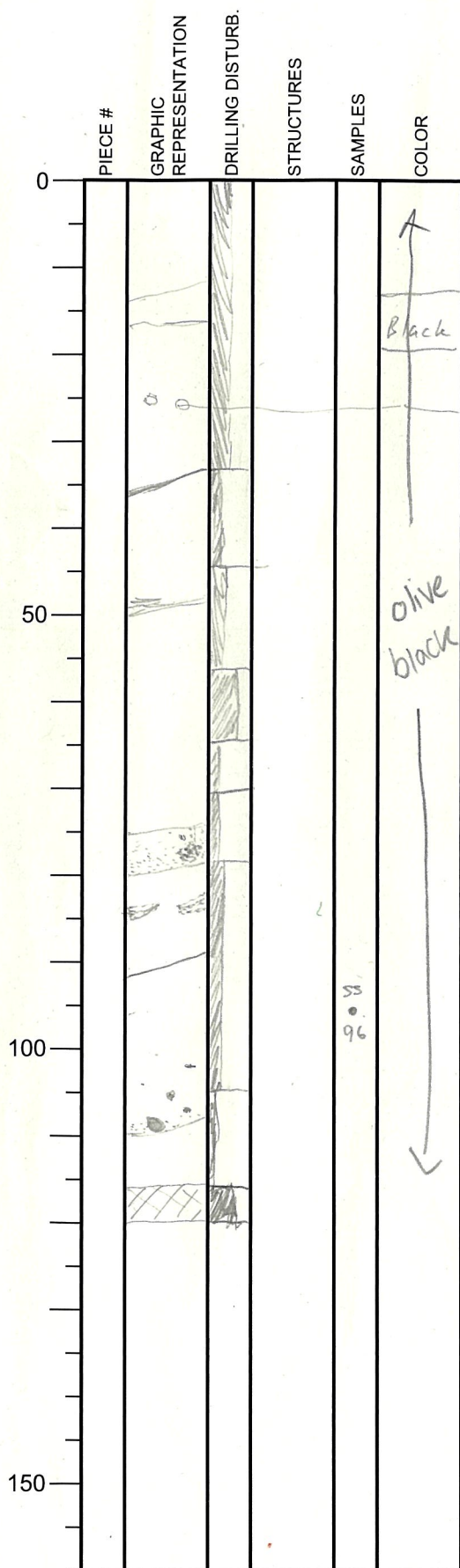


International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 7/10/2024
 EXP.: 405
 SITE/HOLE: C00193
 CORE: 2K
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: Jenna / visdean



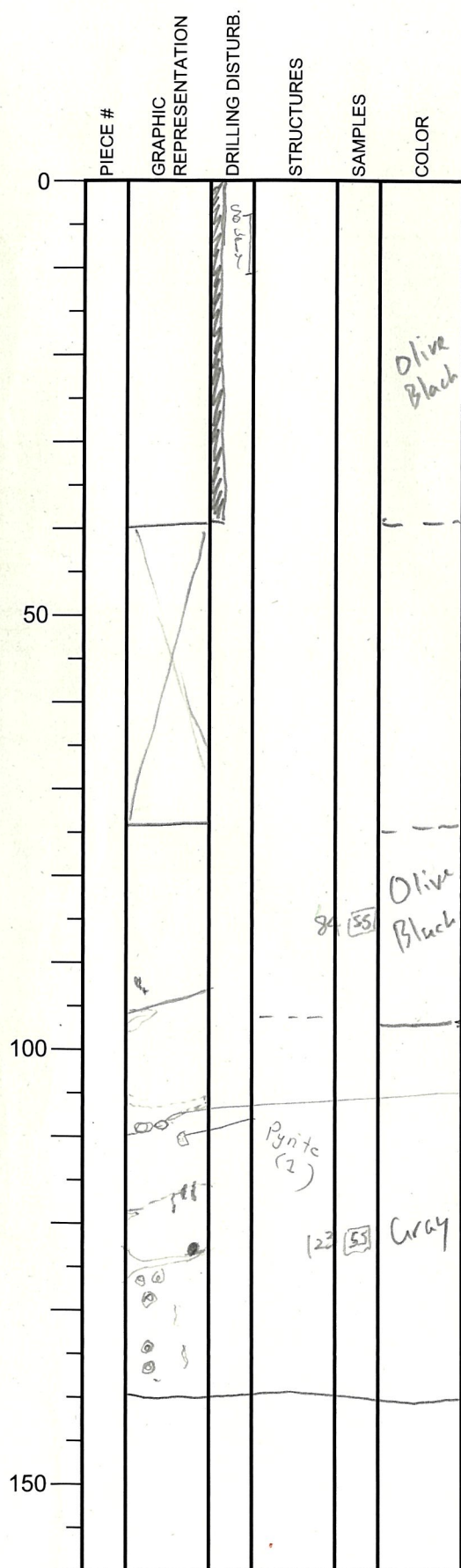
SECTION DESCRIPTION

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 7/10/2014
EXP.: 405
SITE/HOLE: C00195
CORE: 2K
SECTION: 2
TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: VISDEAN NICHOLSON



major lith
7.5y 3/1
Olive black mud
(olive black mud.)
with silty ash
ashy pumice

WR

84 [55] Olive Black → 7.5y 3/1

slightly color change ← yellowish to olive? green & black

10Y 7/1

7.5y 2/1

dark colored pumice

dispersed tuff clasts, white + black volcanic(?) clasts, partly smeared

Pyrite (2)

123 [55] Gray

black volcanic(?) clast ~7mm

individual white clasts (tuff) with green rim - alteration

possible burrows lined with ash
or tuff clasts smeared by core cutting?

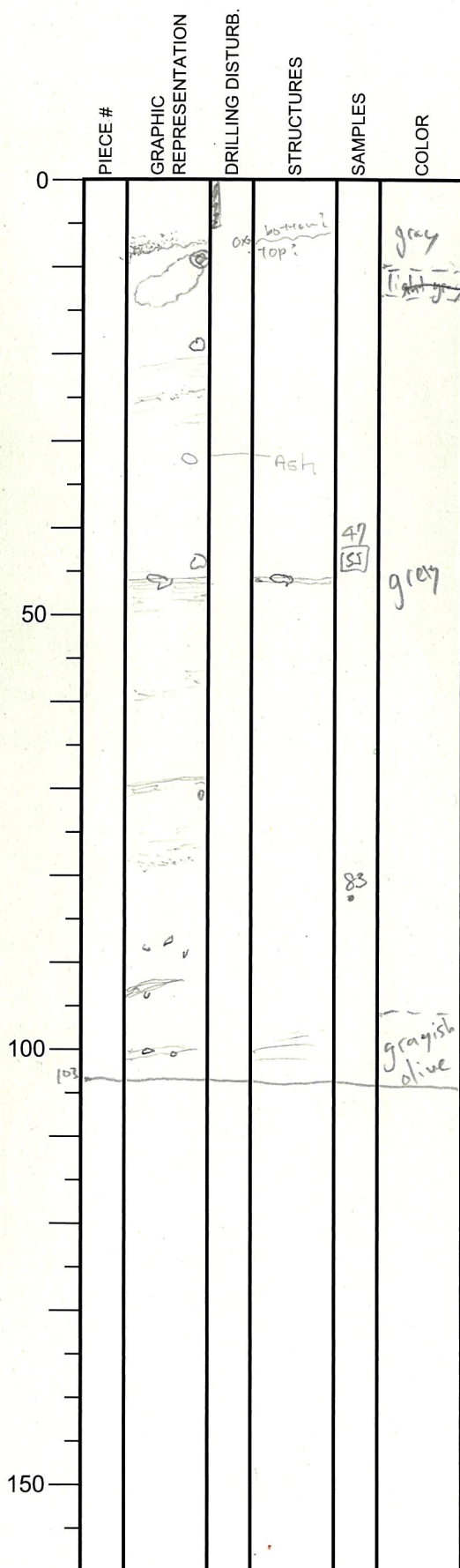
BASE OF CORE 140 cm 7.5y 4/1

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 7/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 2K
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER: VISDEAN
 NICHOLSON



SECTION DESCRIPTION

yellowish?
 silts & bluish gray boundary
 individual tuff clast with green rim
 white grayish white → N 8/ with some SGY 4/1
 - 7mm rounded granule -
 10Y 5/1
 tuff clast
 ~2-3 mm black laminae, with grey-green ash clast showing alteration
 slightly 7.5Y 2/1
 coarser than other depths. → N 8/
 olive black mud
 - dark grey clast, ~5mm 7.5Y 2/1
 (thickness < 5mm plane laminae?)
 - ash tuff clasts ~5mm mix of 7.5Y 7/1 + 7.5Y 8/1
 parallel laminations 10Y 4/2
 grayish olive

International Ocean Discovery Program Visual Core Description

NO. 4
DATE: 7/10/2024
EXP.: 405
SITE/HOLE: C0019 J
CORE: 2K
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: U15 DEAN NICHOLSON

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
9					
12					
24				23 35	gray
50					
100					
150					

SECTION DESCRIPTION

→ coarse patches.
dispersed with N 8/
black silt, discontinuous, 0.5cm thick
→ N 1.5/
finer olive black mud with black patches.
slightly coarser silt.
1.5cm green-grey clst of tuft lath → 7.5y 5/2
→ no green bright enough
in colour chart

International Ocean Discovery Program

Visual Core Description

NO. 1
DATE: 8/10/2024
EXP.: 405
SITE/HOLE: C0019 J
CORE: 3K
SECTION: 1
TOP DEPTH (m CSF): 101

OBSERVER: Amy Gougeon

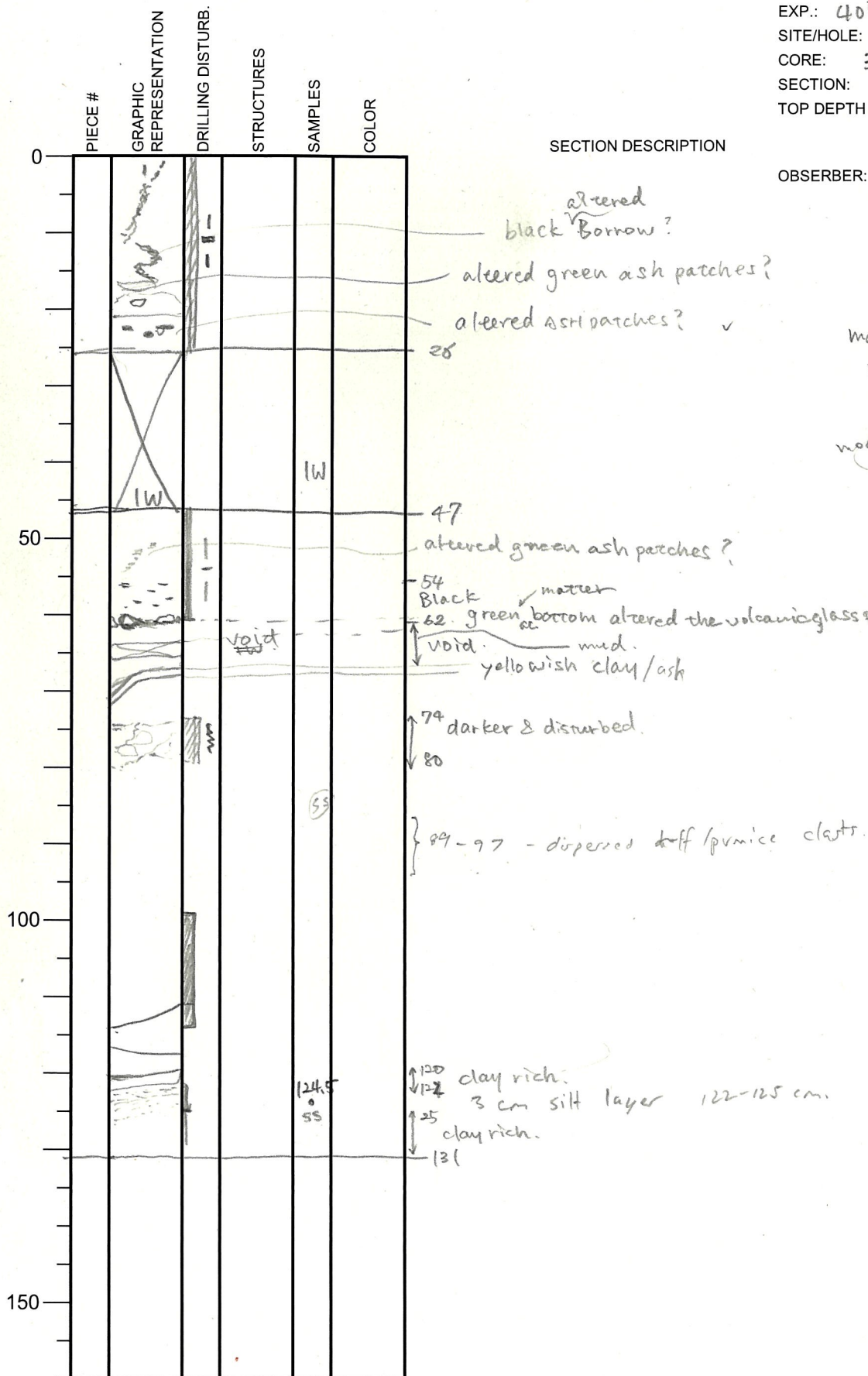
PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	Lithology	SECTION DESCRIPTION
0							Drilling disturbance
10				59Y 3/1	dark olive grey		Lots of green alteration (clay) 2.5 9Y 3/1
20				2.5YR 2/6			iron discoloration / oxidation in small section
30							
40							siliceous ooze small black clasts SPB 2/1
50							
60				7.5Y 3/1	olive black		slight brown discoloration in small seam
70				SS			siliceous ooze / mud grade
80				NS / 59Y 3/1			Pumice clast w/ green alteration patch
90				59Y 3/1	dark olive grey		Diatomaceous ooze / mud
				7.5Y 3/1	olive black		green alteration patch (dark olive grey)
							mudstone - mud / diatomaceous ooze → heavily disturbed
100							BASE OF CORE
110							
120							
130							
140							
150							

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 8/10/20
 EXP.: 405
 SITE/HOLE: C0019 J
 CORE: 3 K
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: RINA
 Uisdean



NO. 3
DATE: 8/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 3K
SECTION: 3
TOP DEPTH (m CSF):

OBSERVER: UIDEAN
NICHOLSON



NO. 4
DATE: 8/10/2024
EXP.: 405
SITE/HOLE: C0219 J
CORE: 36
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: CIDEAN NICHOLSON



NO. 1
DATE: 8/10/2024
EXP: 405
SITE/HOLE: C0019 J
CORE: 4K
SECTION: 1
TOP DEPTH (m CSF):

OBSERVER: UISDEAN
NICHOLSON

SECTION DESCRIPTION

vein?

60-63 cm - ash, or ash, mudstone
63-66 cm - silt, or silty mudstone

Opine
block
(SS) 10Y 3/1

- isolated cobble, siliceous mudstone with preserved laminations.
Much harder than background sediment.

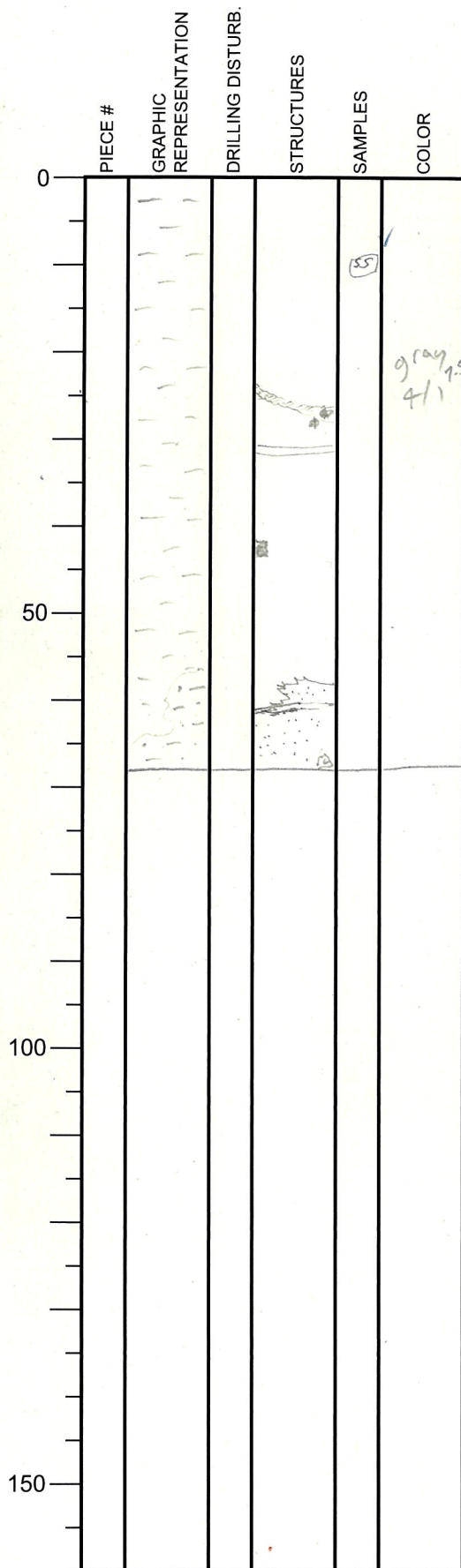
BASE OF CORE 99 CM.

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 8/10/2021
 EXP.: 405
 SITE/HOLE: 0019 J
 CORE: 4K
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: UIDEAD
 NICHOLSON



SECTION DESCRIPTION

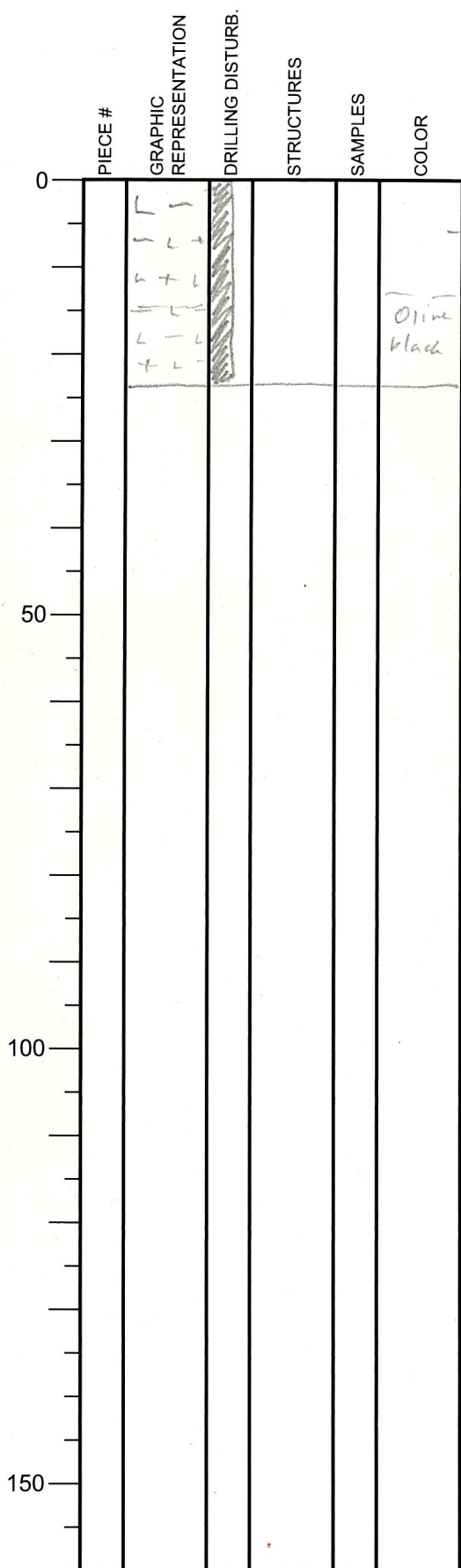
Siliceous ooze
 with subsidiary
 ash + silt
 dispersed ash
 through host

International Ocean Discovery Program

Visual Core Description

NO. 3
DATE: 8/10/20
EXP.: 405
SITE/HOLE: C0019
CORE: 4k
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: UIDEAN
NICHOLSON



SECTION DESCRIPTION

2 mottled olive black + dark grey
- tuft + ~~petiole~~ siliceous sore/dry.

Olive
black

BASE OF CORE

NO. 1
DATE: 8/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 5K
SECTION: 1
TOP DEPTH (m CSF):

OBSERVER: UISDEAN
NICHOLSON

SECTION DESCRIPTION

isolated buff / promise

- ash, discontinuous (faulted)?
- green (discontinuous (faulted?))

116 cm

OVERALL

- drilling damage or fractures throughout (consistent orientation)

temp.
wind.

International Ocean Discovery Program

Visual Core Description

NO. 2

DATE: 8/10/2024

EXP.: 405

SITE/HOLE: C0019J

CORE: 5K

SECTION: 2

TOP DEPTH (m CSF):

OBSERVER: VIDEAN
NICHOLSON

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
✓ 0					10Y 3-1
✓					Olive black
✓					(unless specified otherwise)
✓					
✓					
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: VISEAN
NICHOLSON

- ^{pyrite +} dispersed ash
- green laminae at ~60-70° relative to core
- discontinuous green
 ↳ lamination or alteration around fracture.
- inclined ash laminae ~60-70° relative to core
- isolated ^{sounded} pebble. compositionally the same as background
- dark black-gray lamination?
- white-gray ash, ~7mm thick, inclined at ~70° relative to cut core

isolated hvff/purice

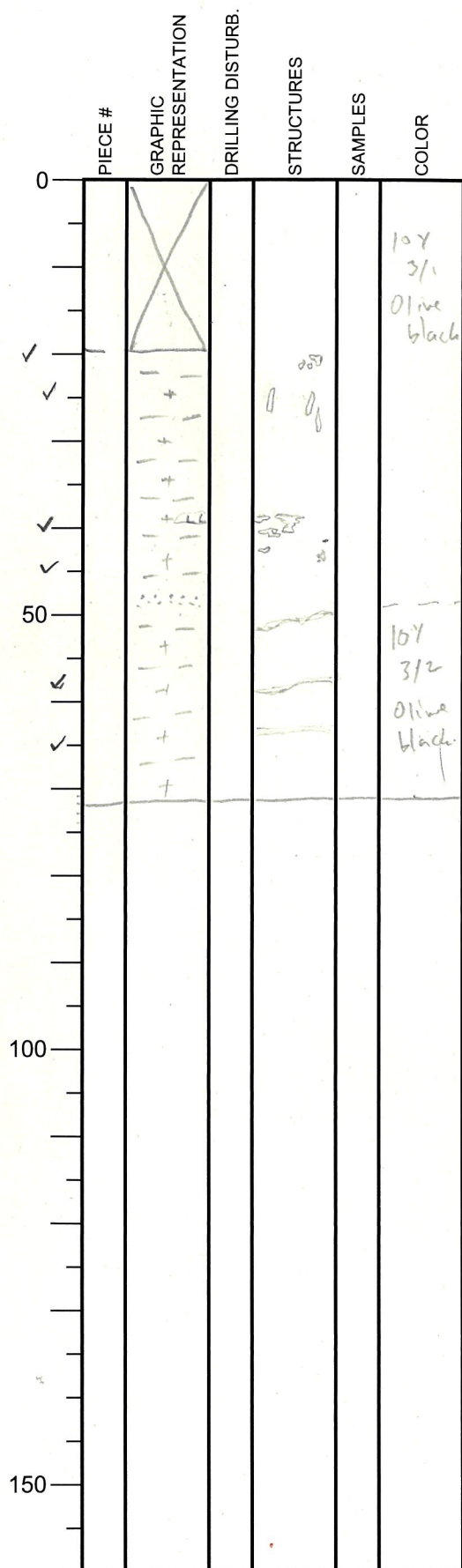
141 cm

as previous

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 8/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: SK
SECTION: 3
TOP DEPTH (m CSF):

OBSERVER: CUSTAN NICHOLSON



SECTION DESCRIPTION

WR
- ash
- mottled, black patches
- discontinuous ash
- ash granule
- fine silty
- Subtle colour change from ~47 down.
- lamination, near horizontal
72cm

NO. 4
DATE: 8/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 5K
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: UISDEAW
NICHOLSON

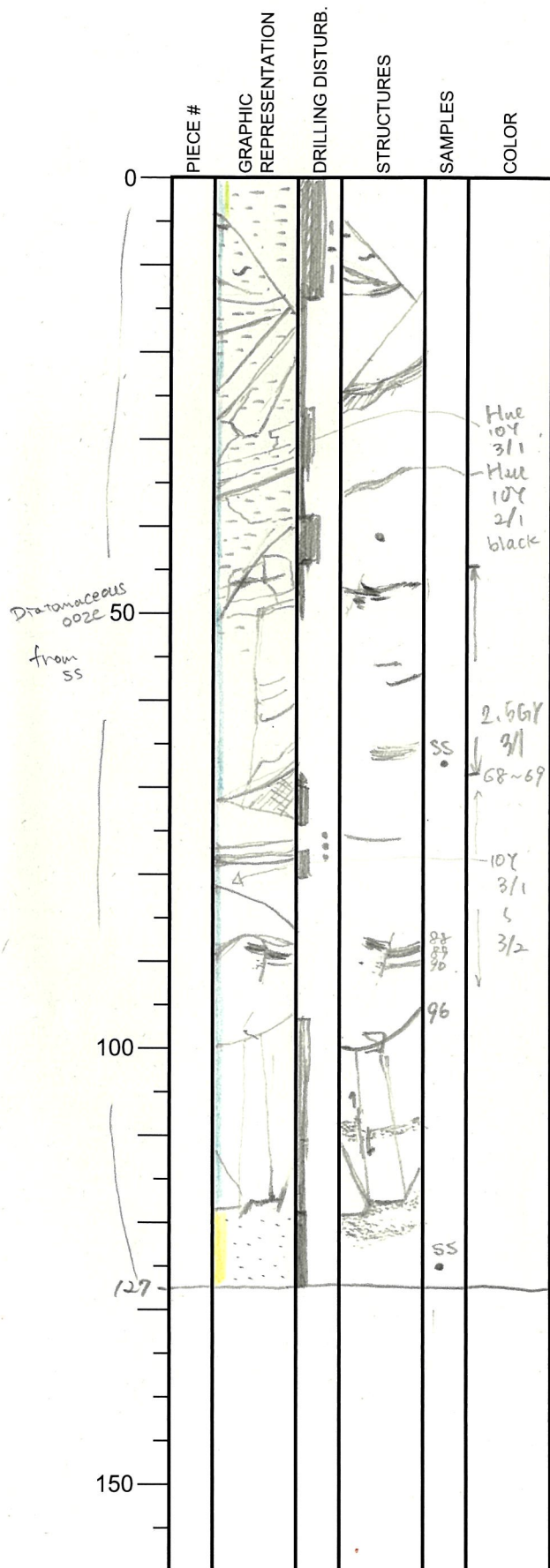
VCD_sheet_160629

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 9/10/20
EXP.: 405
SITE/HOLE: C0019J
CORE: 6
SECTION: 1
TOP DEPTH (m CSF):

OBSERVER: RINA



SECTION DESCRIPTION

blocky highly disturbed
<2mm black bedding?

black
wavy laminae

olive black mud

wavy laminae
black

43cm Black sand particle <5mm

(with FINE well sorted black grain)
dark olive gray mud

soopy drilling induced mud?

olive black mud with v.f. sand to silt

5mm laminae of black
~3mm yellowish clay
2mm altered ash green
black laminae
white

97.5-98.0 Ash patch

Siliceous mud with
v.f. to medium sand size particle

Major:
(Blocky (consolidating?)
Siliceous ooze
with black laminae
olive black



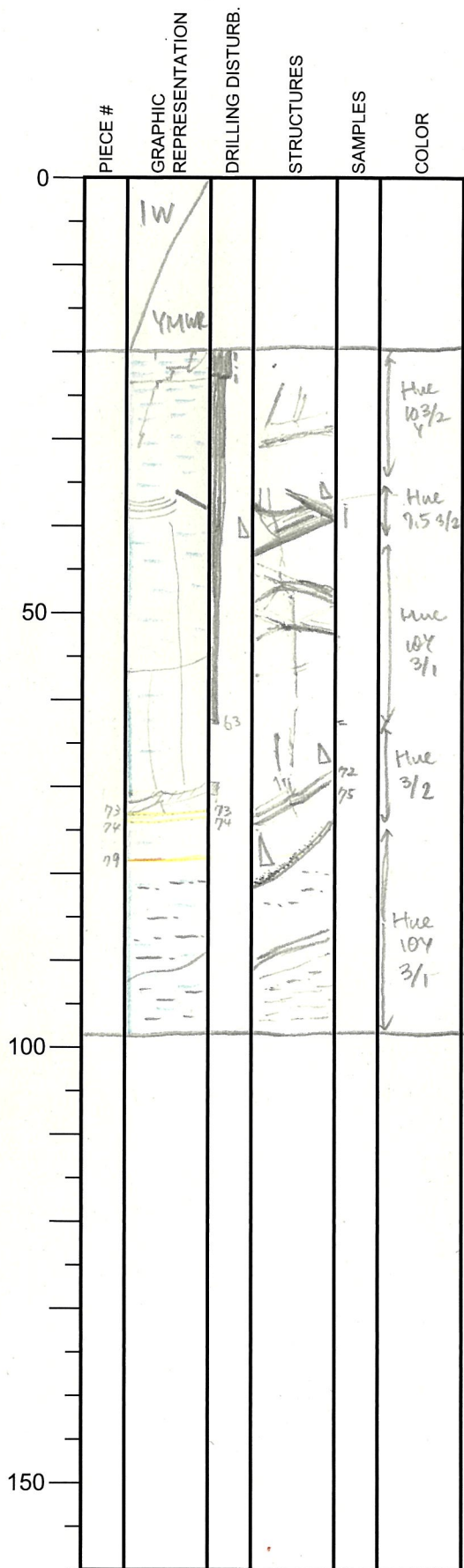
1.02-1.98 Mg

International Ocean Discovery Program Visual Core Description

NO.
DATE: 9/10/20
EXP.: 405
SITE/HOLE: C0019J
CORE: 6
SECTION: 2
TOP DEPTH (m CSF):

129.5 - 139.0

OBSERVER: RINA, Furuchi



SECTION DESCRIPTION

Major:
Olive black mud with 1 ~ 10mm thick black laminae
slightly colour change yellowish to gray color, but those colours are the range of olive black mud

Clearly can see sedimentary str.
black upward fining lamina of

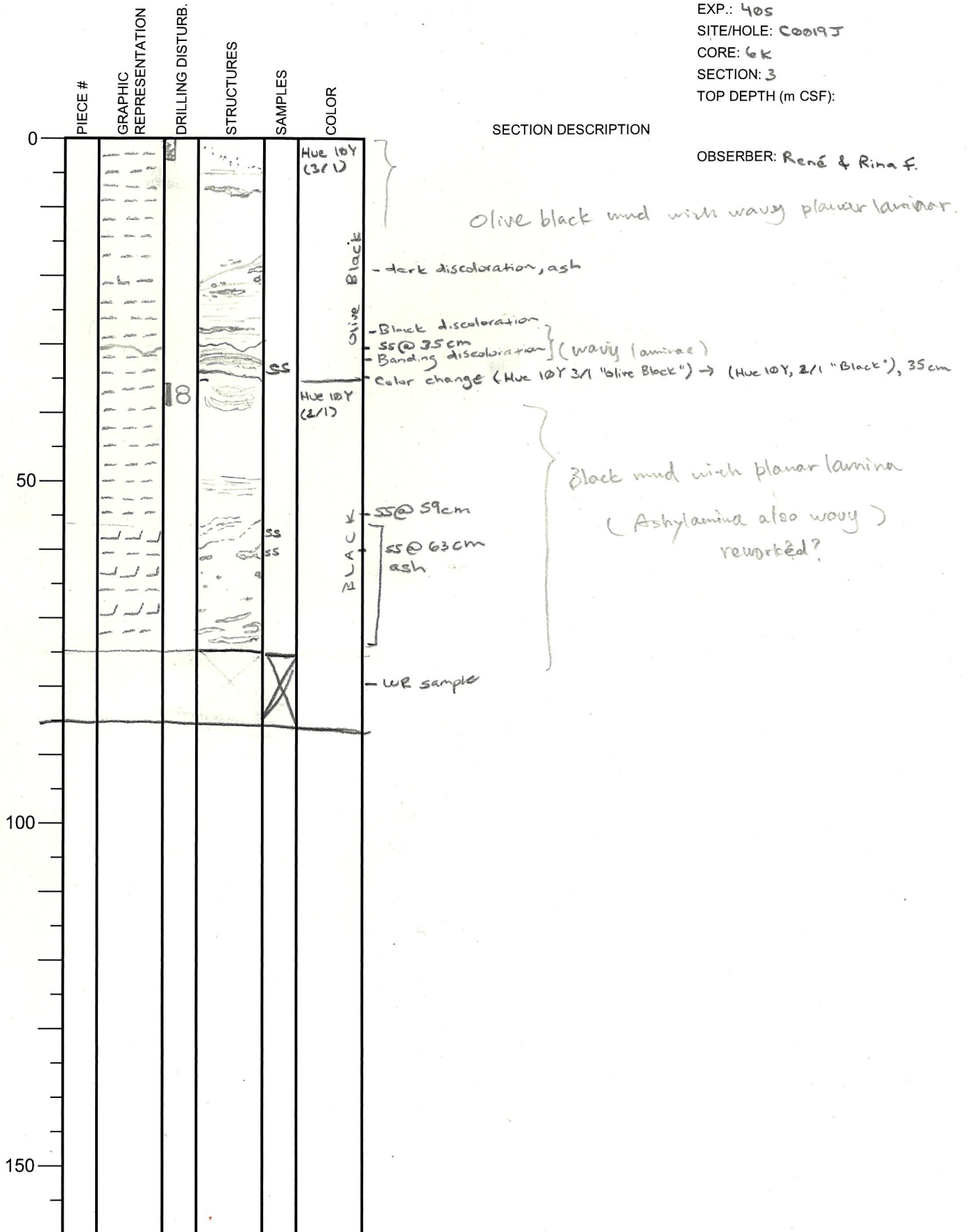
black slightly kink deformed laminae < 1mm yellowish >> Hue 10Y 3/2
(or fault?)

1mm thick black v. fine sand size Ashy sand lamina upward fining (Δ)

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 9 / 10 / 2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 6K
 SECTION: 3
 TOP DEPTH (m CSF):

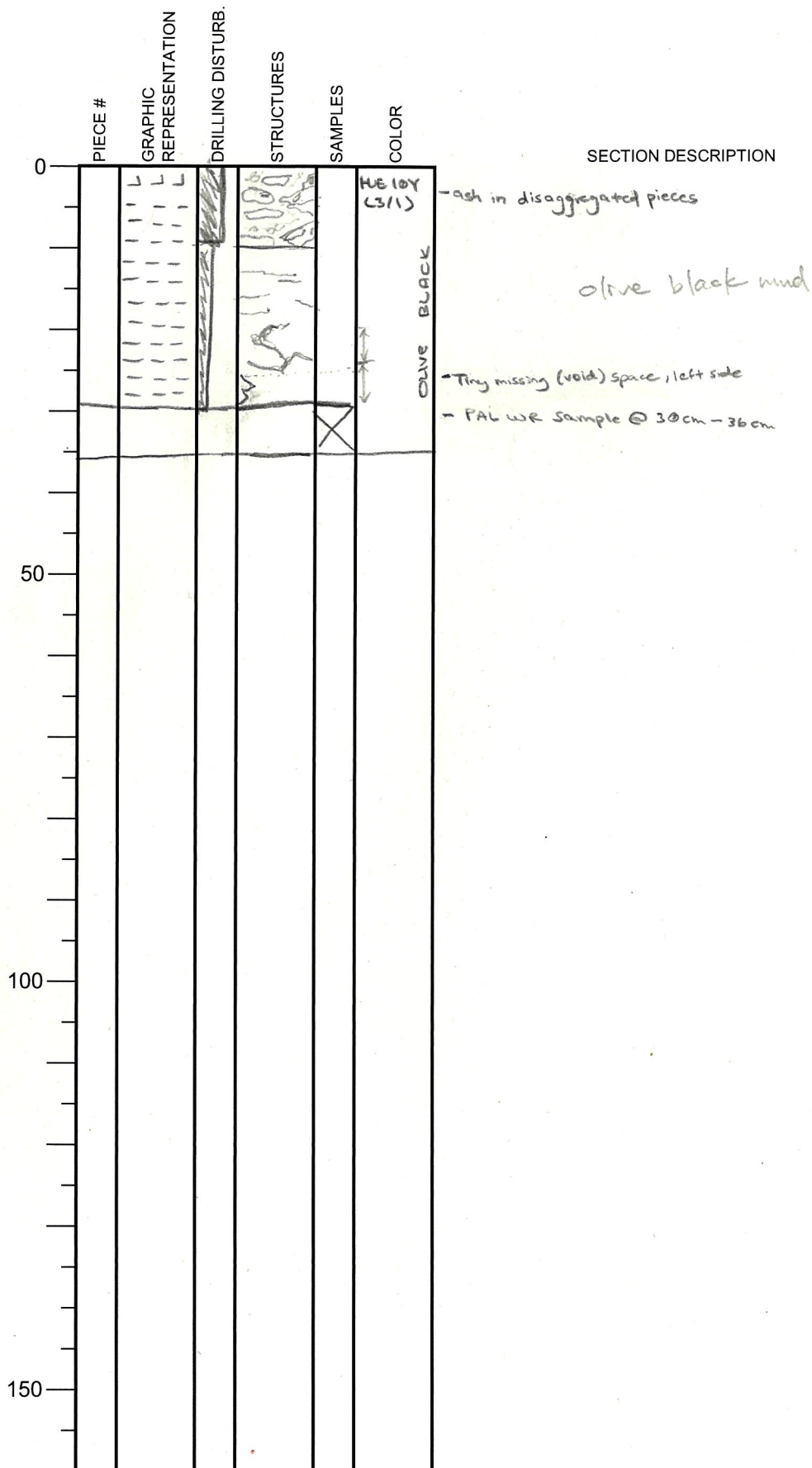


International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 9/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 6K
 SECTION: CC
 TOP DEPTH (m CSF):

OBSERVER: René & Rina F.



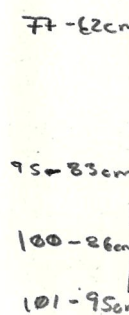
DATE: 9 / 10 / 2024

SITE/HOLE: C0019J

SECTION: 1

TOP DEPTH (m CSF):

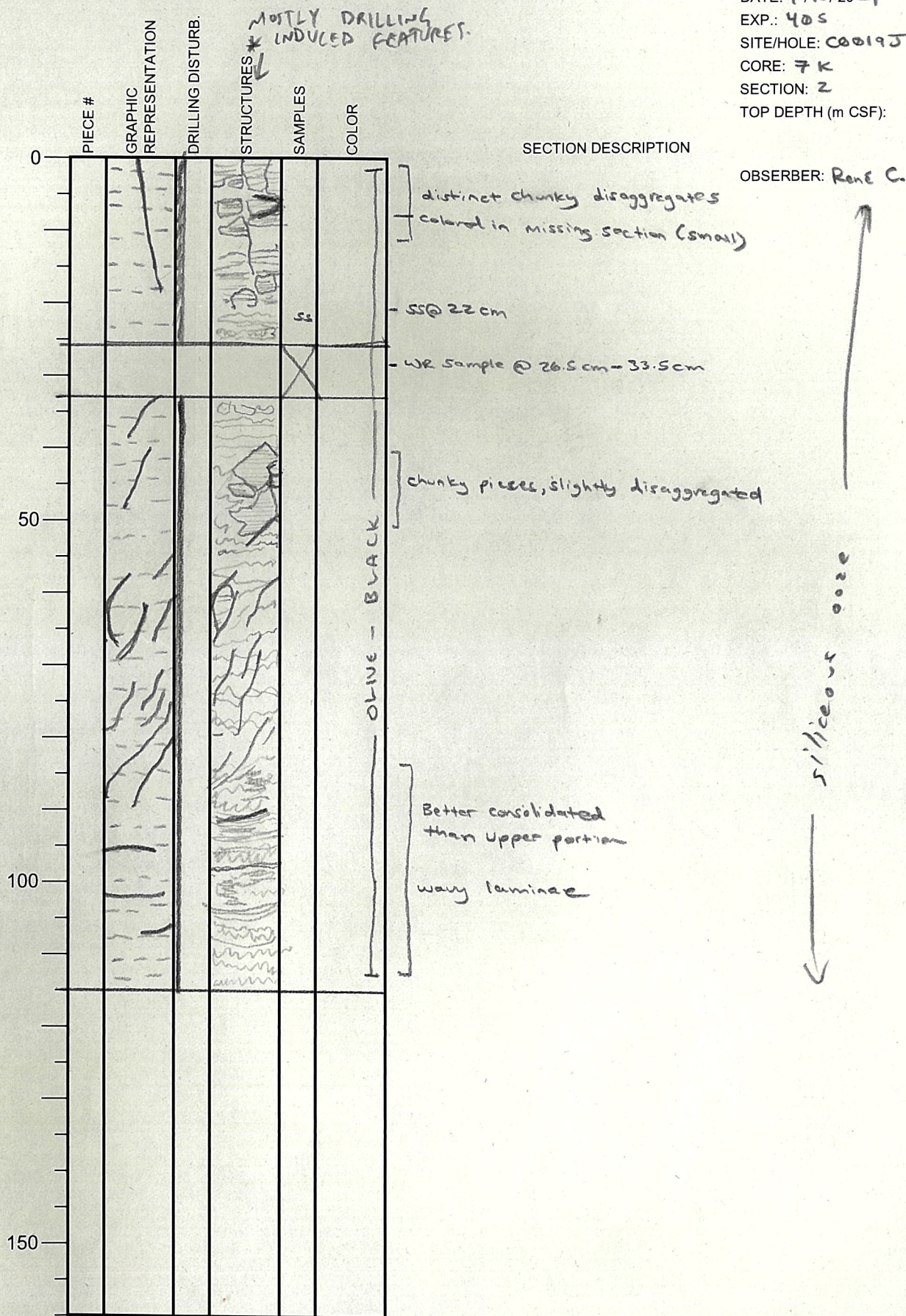
OBSERVER: René C.



*

International Ocean Discovery Program Visual Core Description

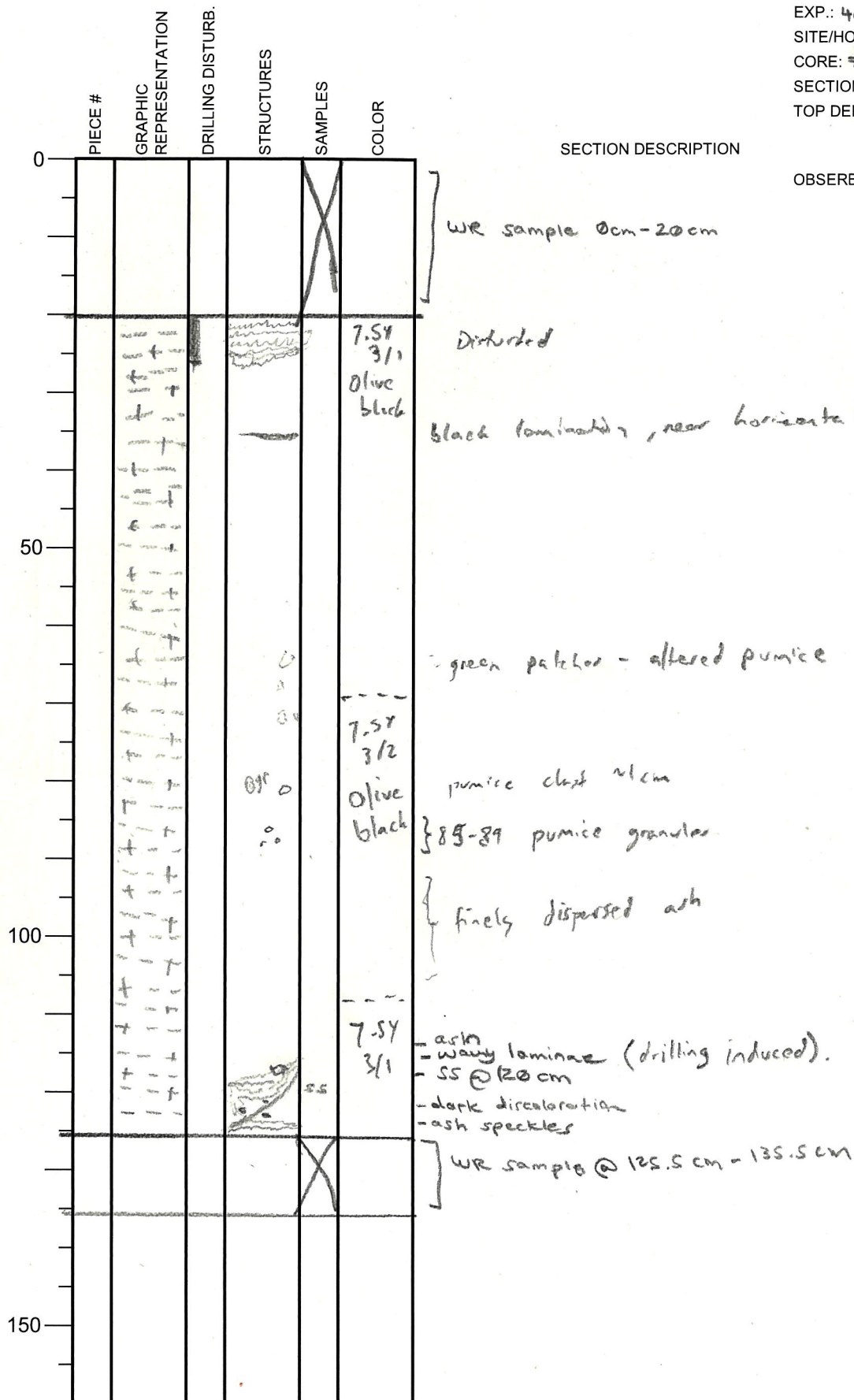
NO. 2
DATE: 9 / 10 / 20 24
EXP.: 405
SITE/HOLE: C0019J
CORE: 7K
SECTION: Z
TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 9 / 10 / 2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 7
SECTION: 3
TOP DEPTH (m CSF):

OBSERVER: René (Visdean N)

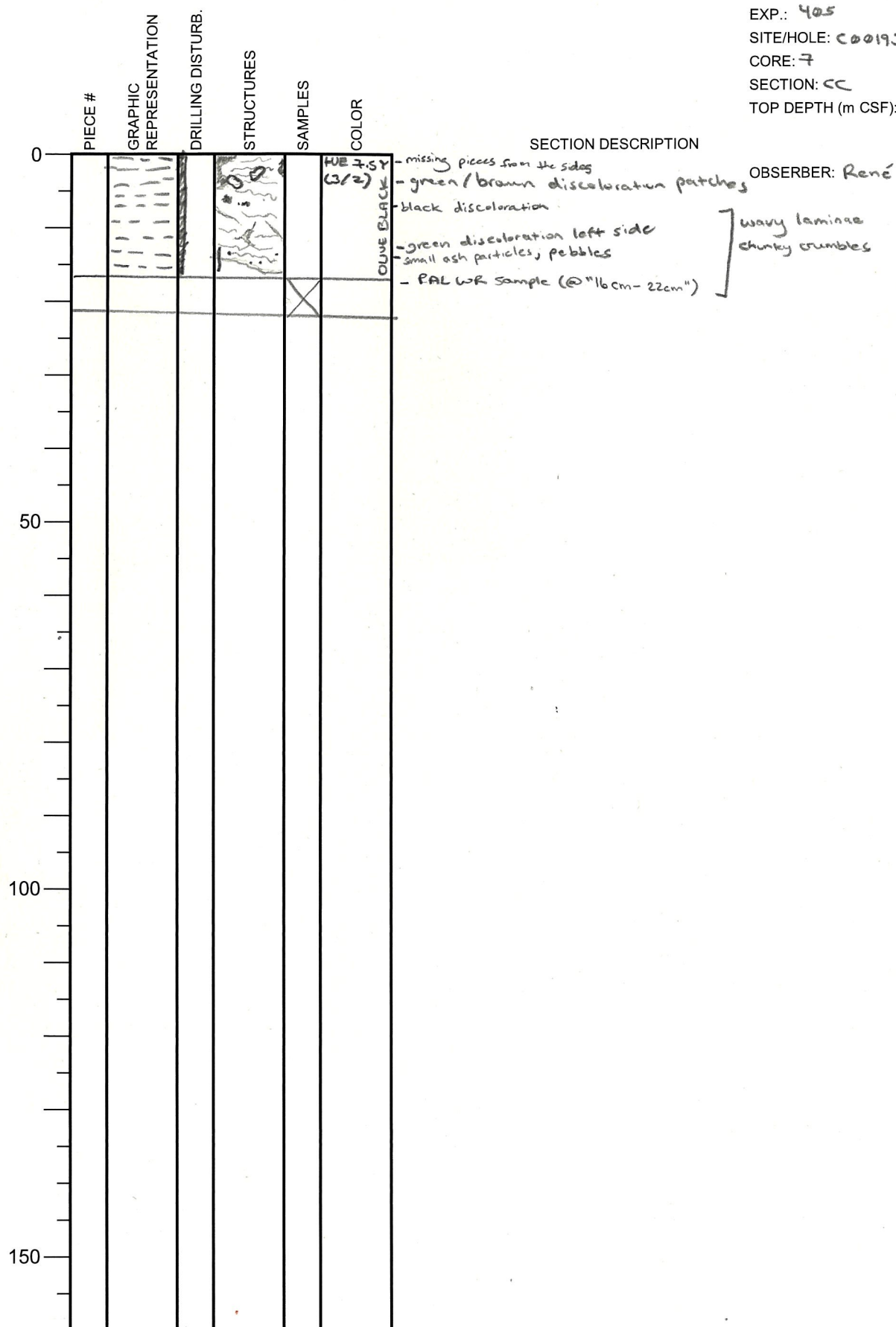


International Ocean Discovery Program

Visual Core Description

NO. 4
DATE: 9/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 7
SECTION: CC
TOP DEPTH (m CSF):

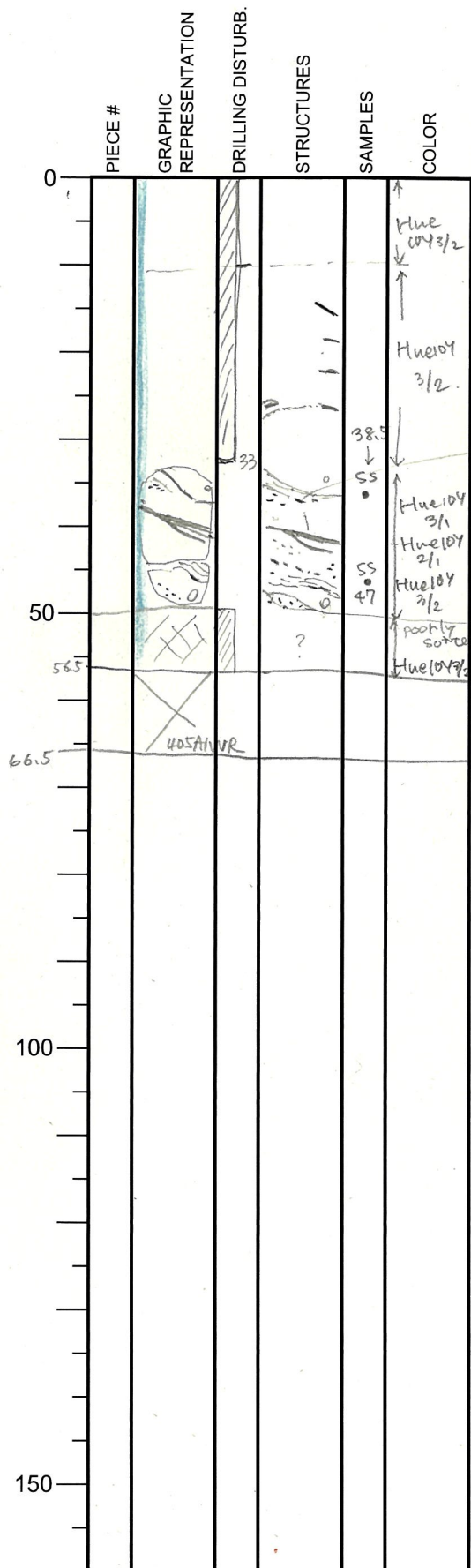
OBSERVER: René



International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 8/10/20
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 8K
 SECTION: 1
 TOP DEPTH (m CSF):



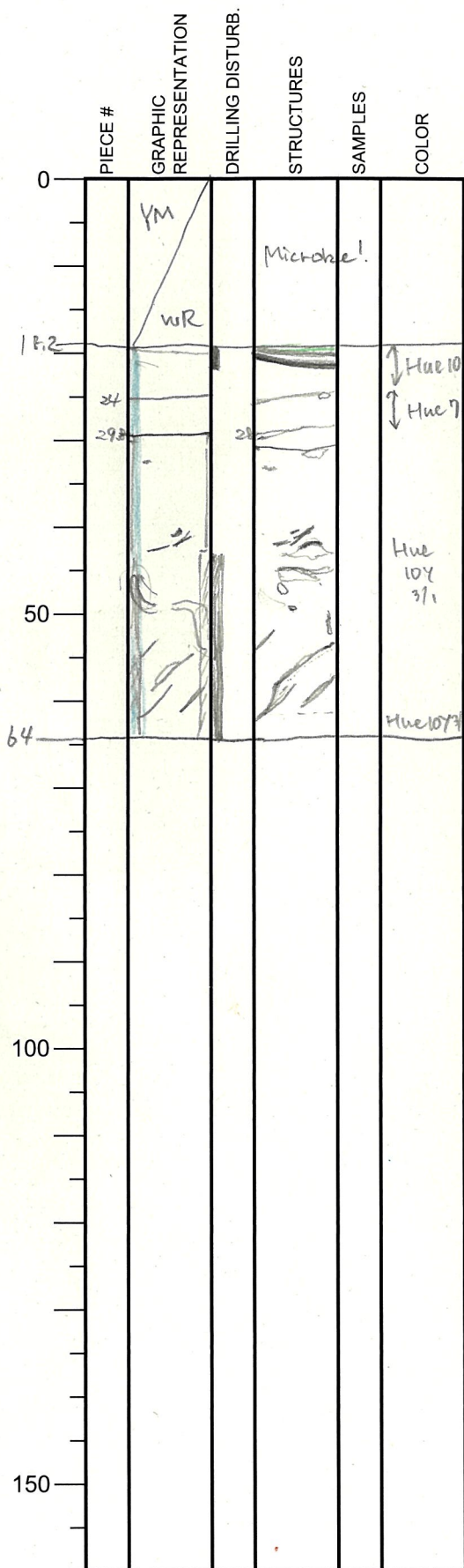
SECTION DESCRIPTION

OBSERVER: LINA FUKUCHI

International Ocean Discovery Program

Visual Core Description

NO. **2**
 DATE: **19/10/20**
 EXP.: **405**
 SITE/HOLE: **C0019J**
 CORE: **8K**
 SECTION: **2**
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: **P. N. FUKUCHI**

Major: Olive black mud.
 with altered greenish patches & black bedding.
 still → olive black (Hue 10Y 3/2)

5mm (from TOP) : altered green

20-22cm Black laminae
 thick!

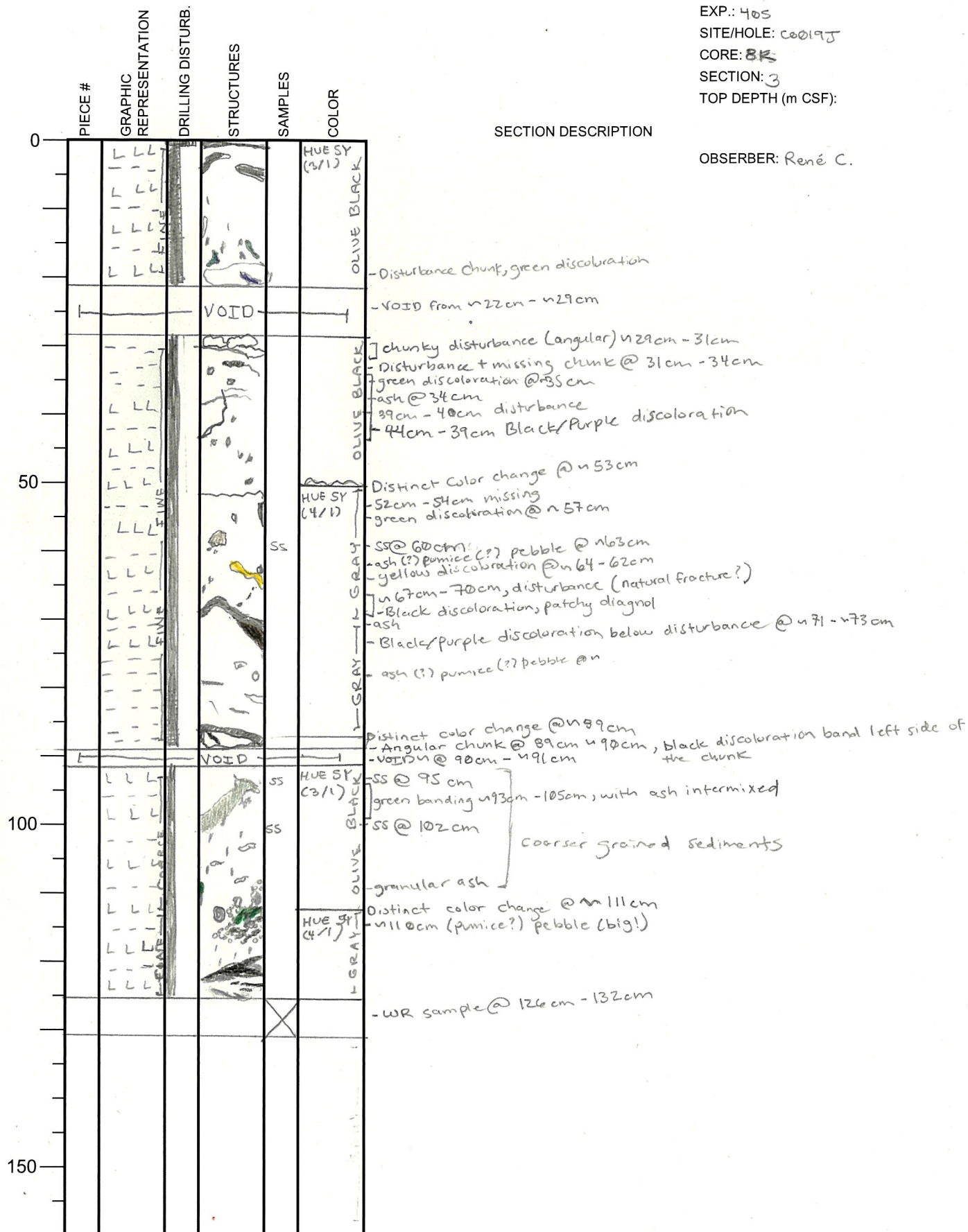
56-57 ash layer (lense)
 5

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 10/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 8R
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER: René C.



International Ocean Discovery Program

Visual Core Description

NO. 4

DATE: 10 / 10 / 20 24

EXP.: 405

SITE/HOLE: C0019J

CORE: 8K

SECTION: CC

TOP DEPTH (m CSF):

OBSERVER: René C.

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0						HUE 2.5Y (3/1) Brownish Black white ash
					SS	HE 2.5Y (4/1) GRAY Black/ purple patches
					X	HE 2.5Y - (4/1) GRAY YELLOW ASH GREEN ASH
50						
100						
150						

SECTION DESCRIPTION

grainular chunks, but still coarse
ash crumbles intermixed/disturbed
from 0 cm to 12 cm
possible sand (?) intermixed

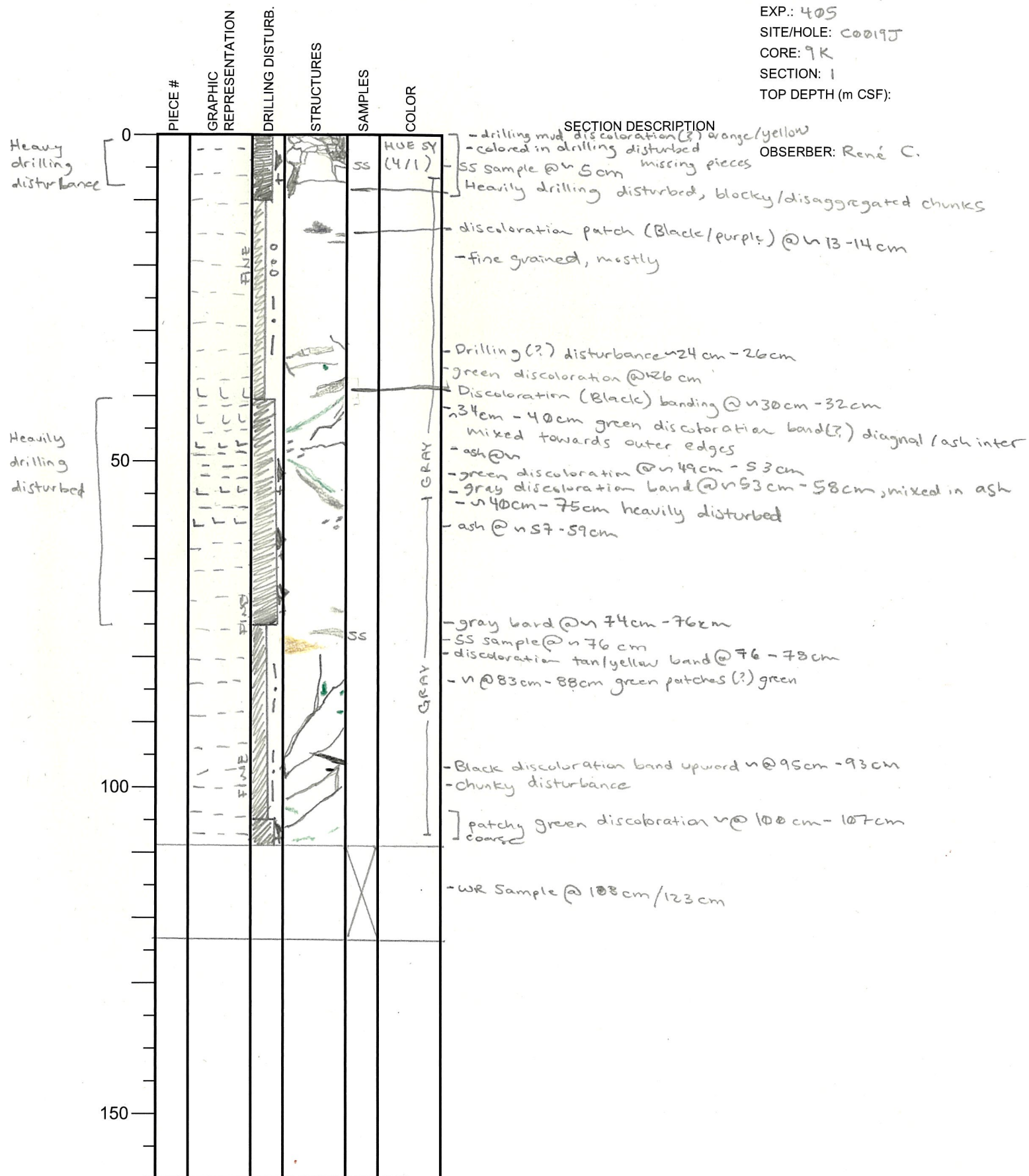
SS @ ~20 cm
Blocky chunks, drilling disturbance (?)
discoloration on chunks, black and green coloring
(chunks @ 17-19 cm (black), chunks @ 20-22 cm (black))

- More consolidated section, ash crumbles intermixed (green-white coloring)
- possible sand (?) intermixed
- PPL Sample @ 32-37 cm

International Ocean Discovery Program

Visual Core Description

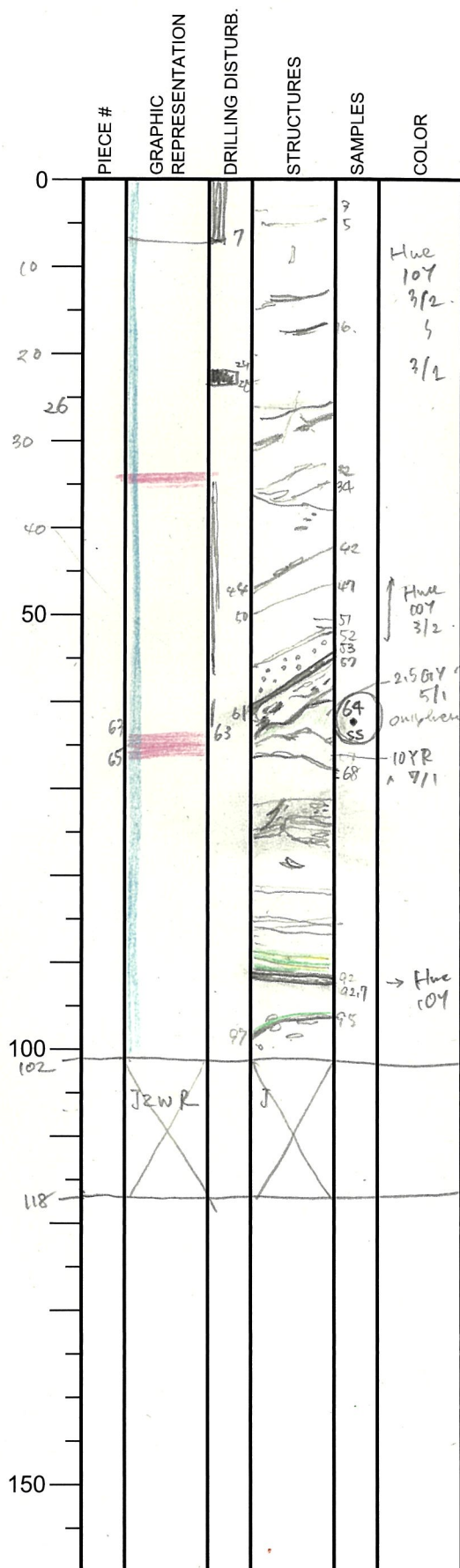
NO. 1
 DATE: 10/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 9K
 SECTION: 1
 TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 10/10/20
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 9K
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: RIVK. FUKUCHI

major: olive black mud with black laminae.
 minor: lighter gray ash & pumice layer

olive gray altered ash
 rounded white fresh granules size ash or chert for pumice patches
 53-61 4cm thickness
 57-62.5 grayish

light gray pinkish. Ash wavy layer with altered green clay & black laminae
 78-79 cm altered ash patches
 1 cm altered olive gray (greenish)

→ Hue 10Y 2/1 black laminae.

International Ocean Discovery Program

Visual Core Description

NO. 3

DATE: 10 / 10 / 2024

EXP.: 405

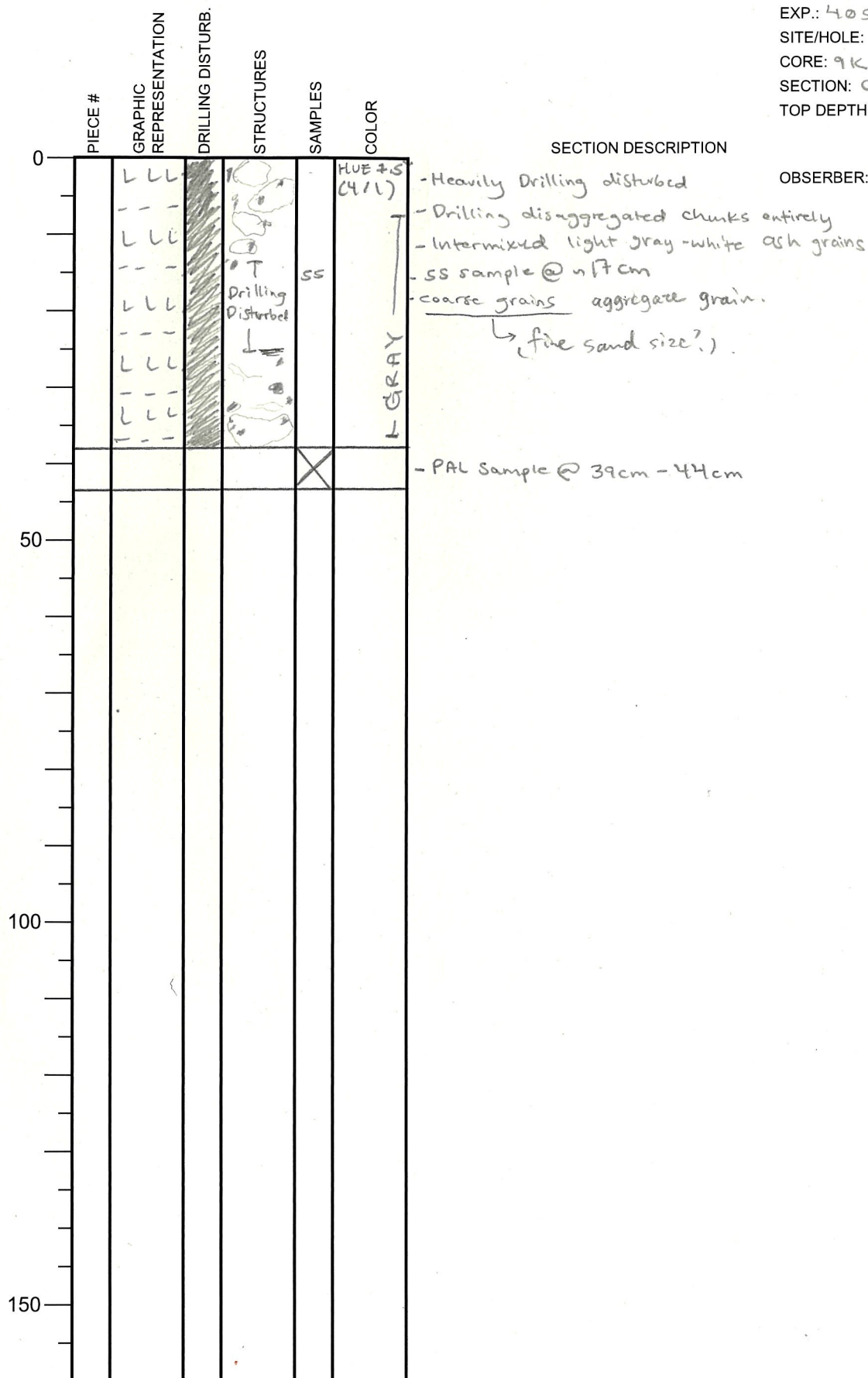
SITE/HOLE: C0019J

CORE: 9K

SECTION: CC

TOP DEPTH (m CSF):

OBSERVER: Rene C.



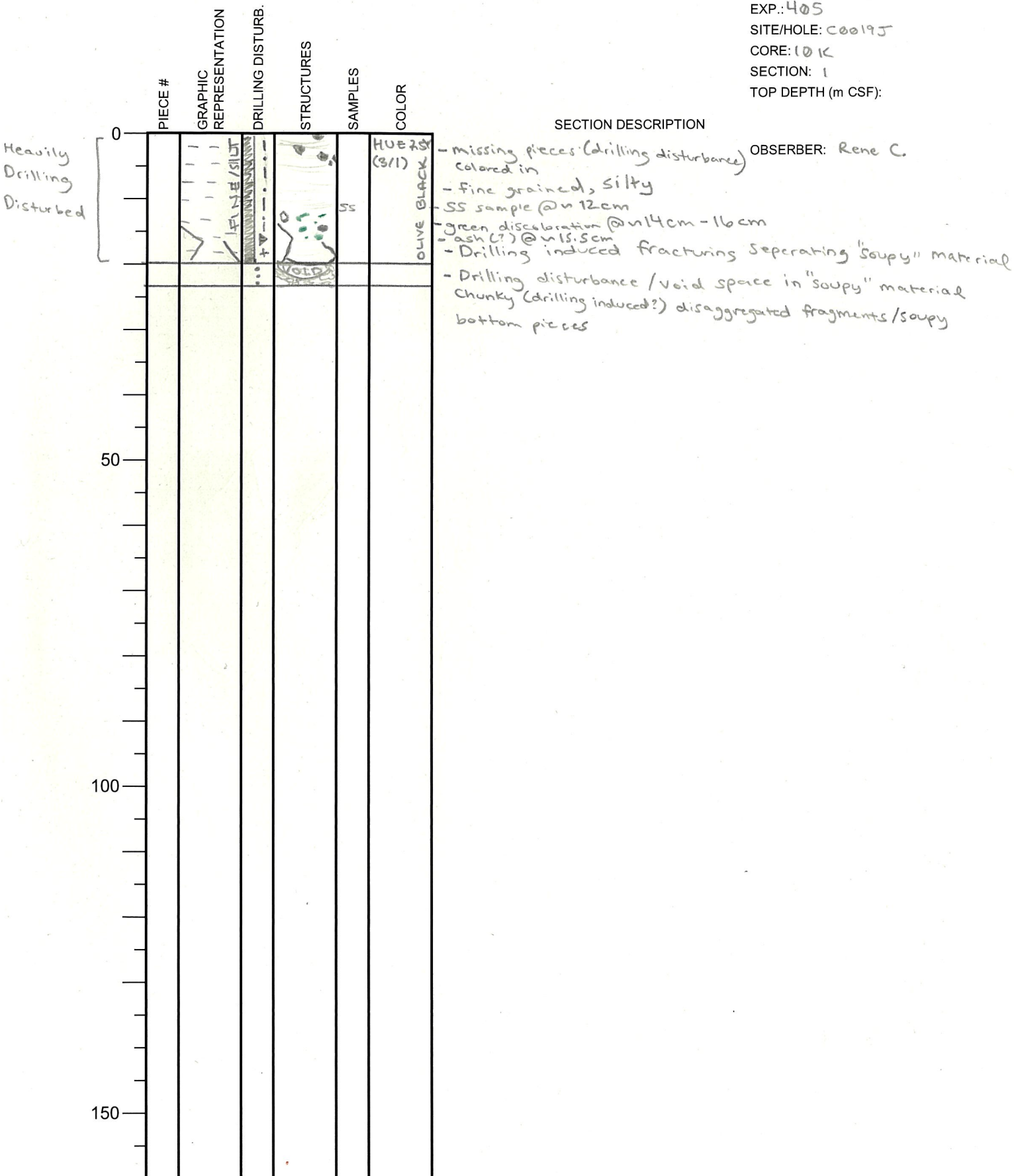
International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 10 / 10 / 2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 101K
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: Rene C.

SECTION DESCRIPTION



International Ocean Discovery Program

Visual Core Description

NO. 2

DATE: 10 / 10 / 2024

EXP.: 405

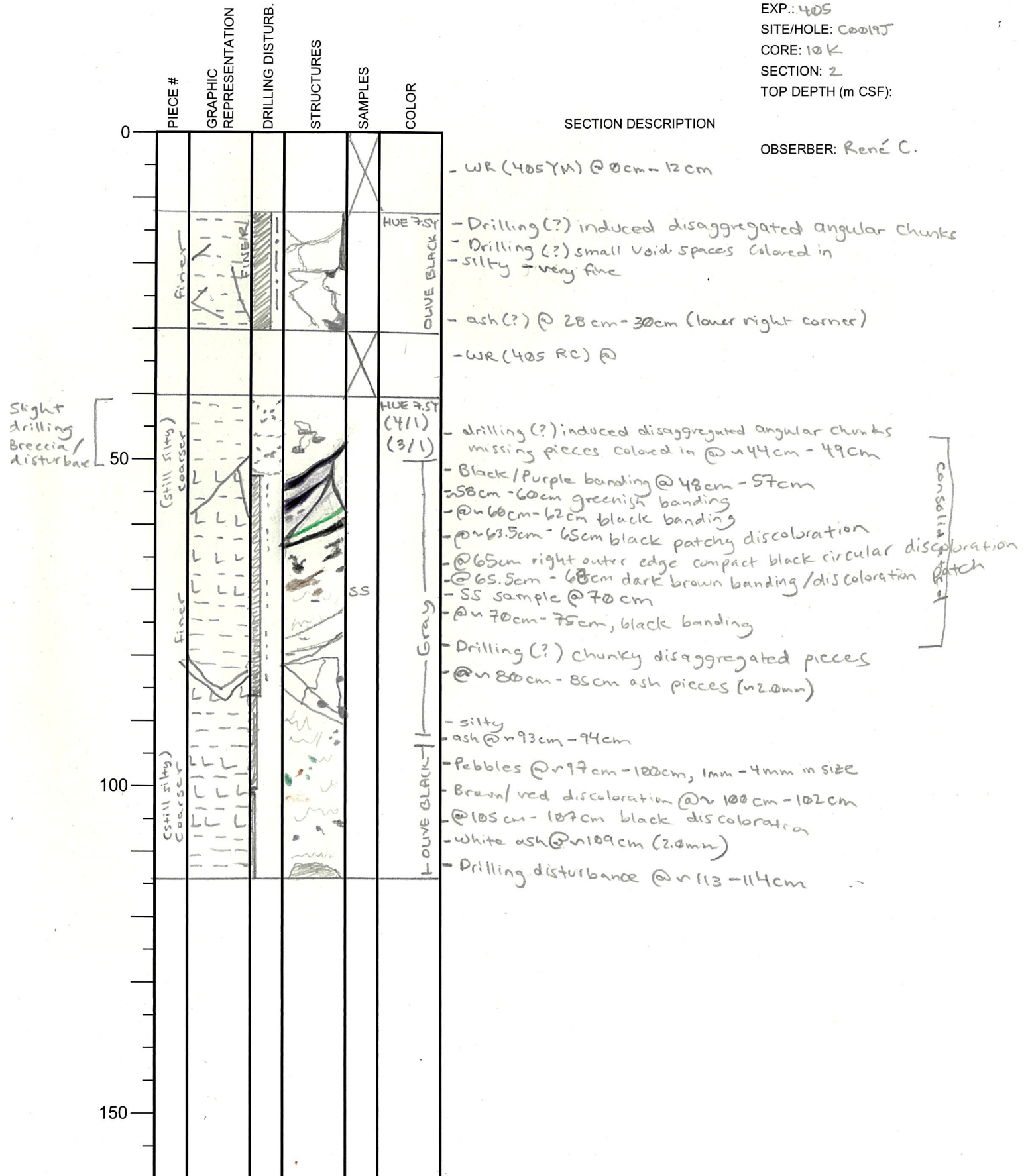
SITE/HOLE: C0019J

CORE: 10 K

SECTION: 2

TOP DEPTH (m CSF):

OBSERVER: René C.

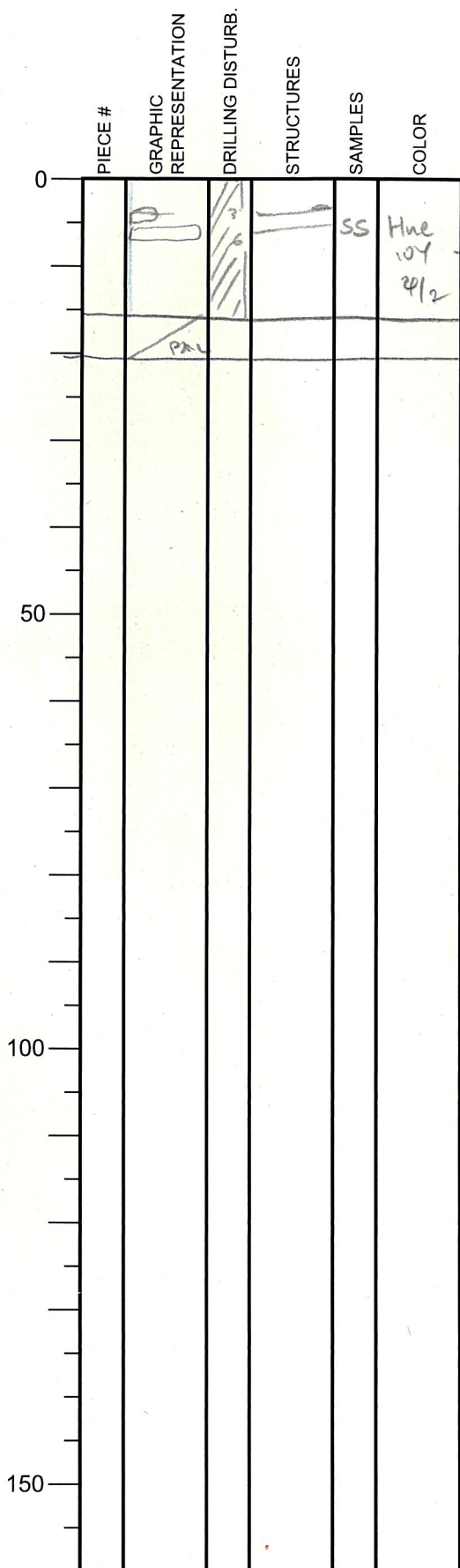


International Ocean Discovery Program

Visual Core Description

NO.
DATE: 10/10/20 24
EXP.: 405
SITE/HOLE: C0019 J
CORE: 10K
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: RINA FUKUCHI



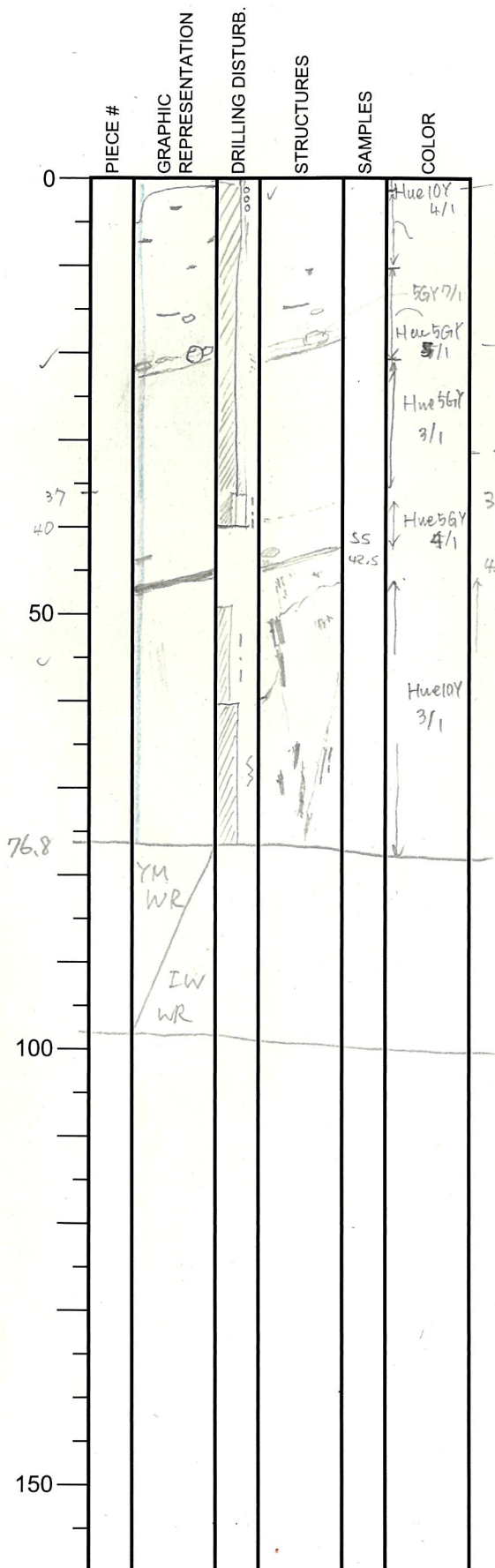
SECTION DESCRIPTION

55 Olive gray mud (highly disturbed)
8.5 cm chunky
16.5
20.5 grain aggregate
Some times dried green mud?
(looks like coarser than other section.)
v.f - fine sand

International Ocean Discovery Program

Visual Core Description

NO.
DATE: / / 20
EXP.: 405
SITE/HOLE: C0019J
CORE: 11K
SECTION: 1
TOP DEPTH (m CSF):

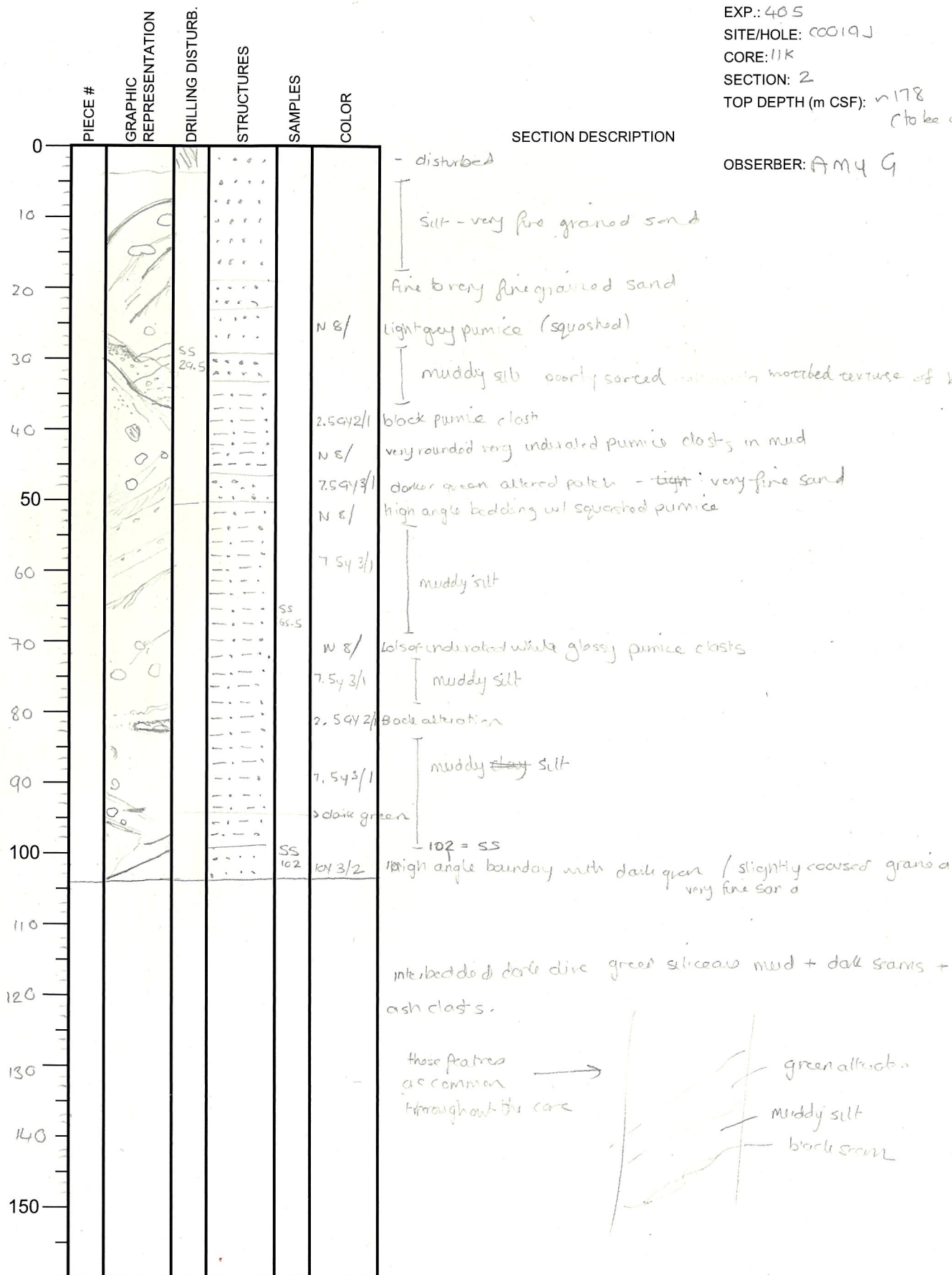


International Ocean Discovery Program

Visual Core Description

NO.
DATE: 13/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 11K
SECTION: 2
TOP DEPTH (m CSF): ~178
(to be checked)

OBSERVER: Amy G



International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 13/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 11K
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER: René C.

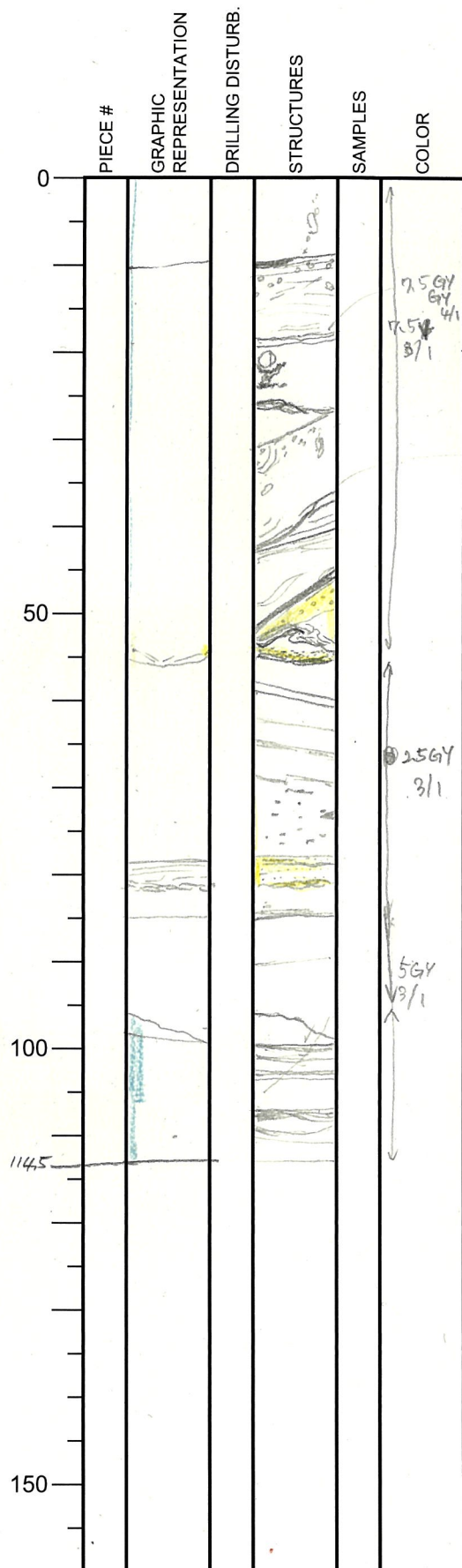
PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0					HUE 7.5Y (3/2) OLIVE BLACK	- dark pebble @ 10 cm - lighter pebble @ ~12 cm - tan pebble @ ~15 cm - ash - green discoloration @ ~21 cm - 25 cm - intermixed black granules @ ~23 cm - 31 cm
					HUE 7.5Y (3/1) OLIVE BLACK	- color change
50					HUE 7.5Y (4/1) GRAY	- ash SS @ ~51 cm
					HUE 7.5Y (4/1) GRAY	- black discoloration - ash - black discoloration, ash
					HUE 7.5Y (3/1) OLIVE BLACK	SS @ 85 cm - black discoloration
100					HUE 10Y 3/1 OLIVE BLACK	- coarser ↓ - discoloration / color change - ash end @ 107 cm length
						→ <u>flame structure</u>
150						

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 13/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 11K
SECTION: 4
TOP DEPTH (m CSF):

OBSERVER: RINA Fukuchi

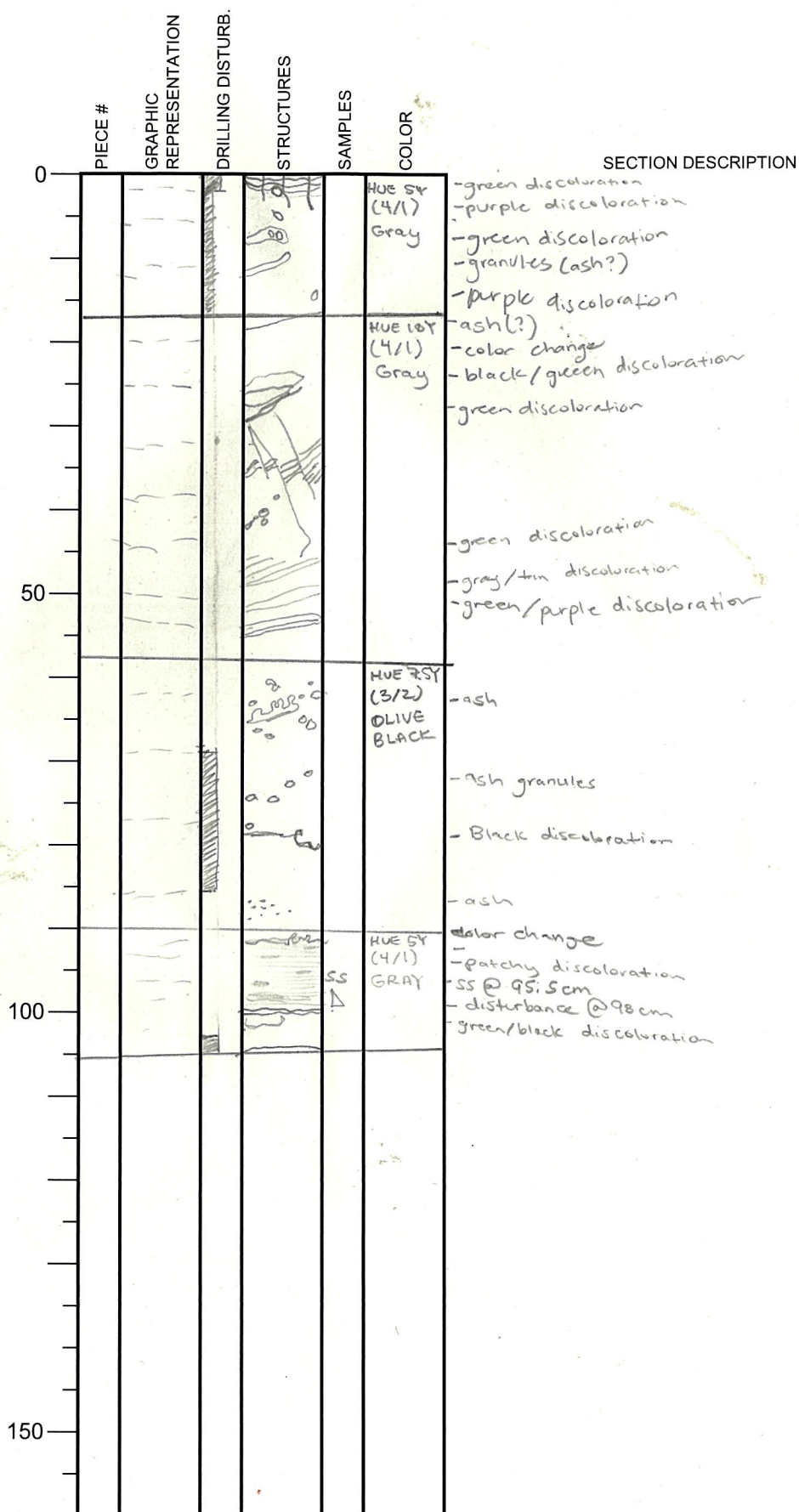


International Ocean Discovery Program

Visual Core Description

NO. 5
 DATE: 13 / 10 / 2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 11 K
 SECTION: S
 TOP DEPTH (m CSF):

OBSERVER: René Castillo



International Ocean Discovery Program

Visual Core Description

DATE: 13 / 10 / 20

SITE/HOLE:

CORE: 11K

TOP DEPTH (m CSF):

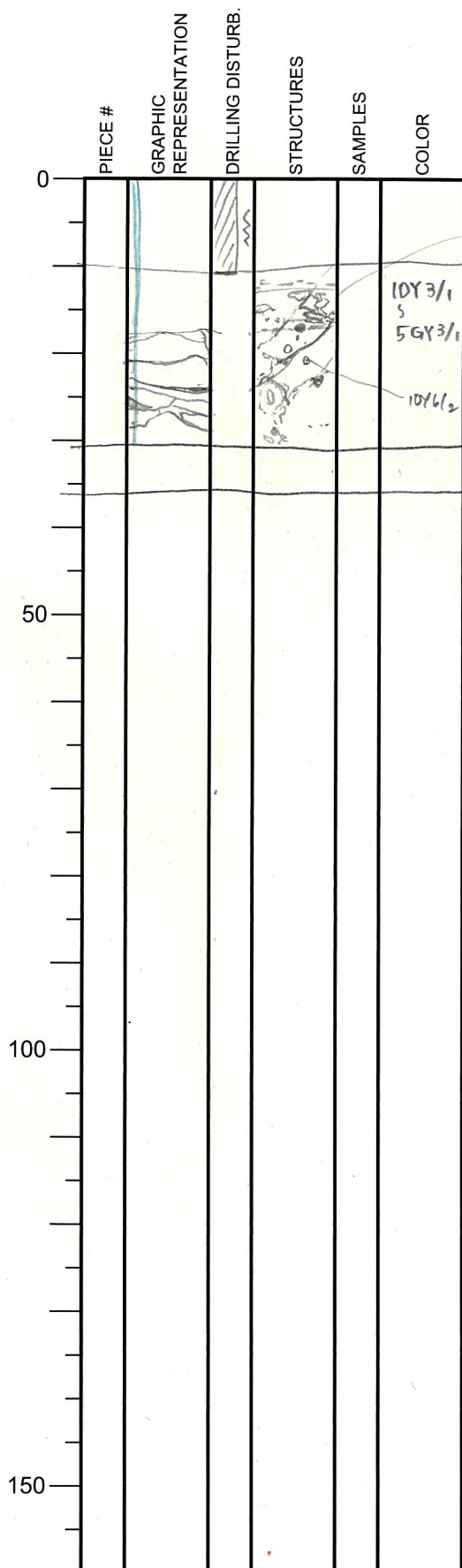
OBSERVER: RINA, FUKUCHI

frame str. $\triangleright$ faulty $\triangleright$ altered color band making $\triangleright$ faulty?

dark olive gray to olive black sandy mud
(silt or clay)

altered 2 or 3 mm ϕ pumice (olive gray)

black scoriish or opaque grains ~~not~~
& pumice scattering



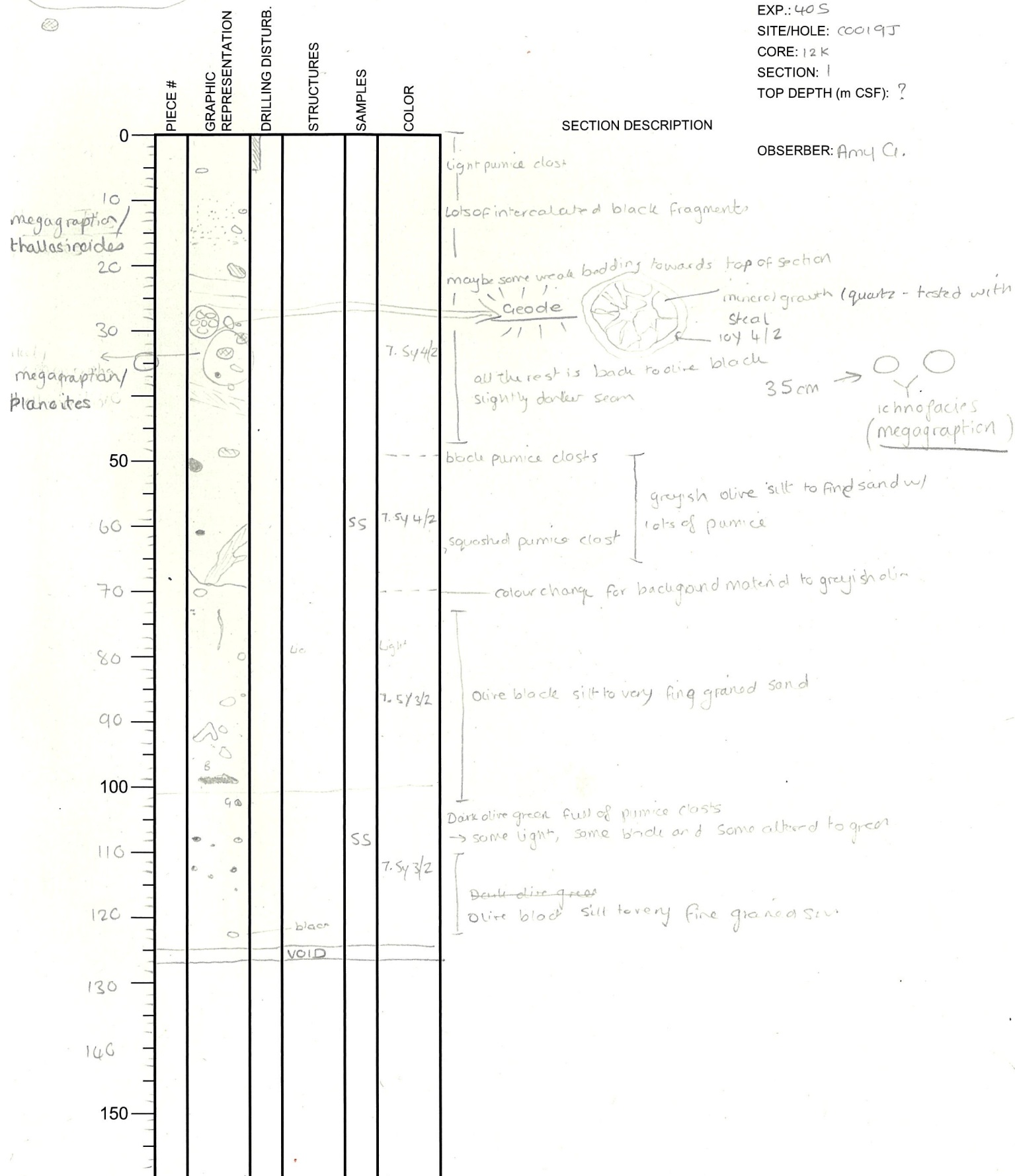
clast colour key

- = 7.5y 8/1
- ◐ = 7.5y 4/2
- ◑ = 7.5y 2/1

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 13/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 12K
SECTION: 1
TOP DEPTH (m CSF): ?

OBSERVER: Amy C.



International Ocean Discovery Program

Visual Core Description

NO. 2

DATE: 13/10/2024

EXP.: 405

SITE/HOLE: C0019J

CORE: 126

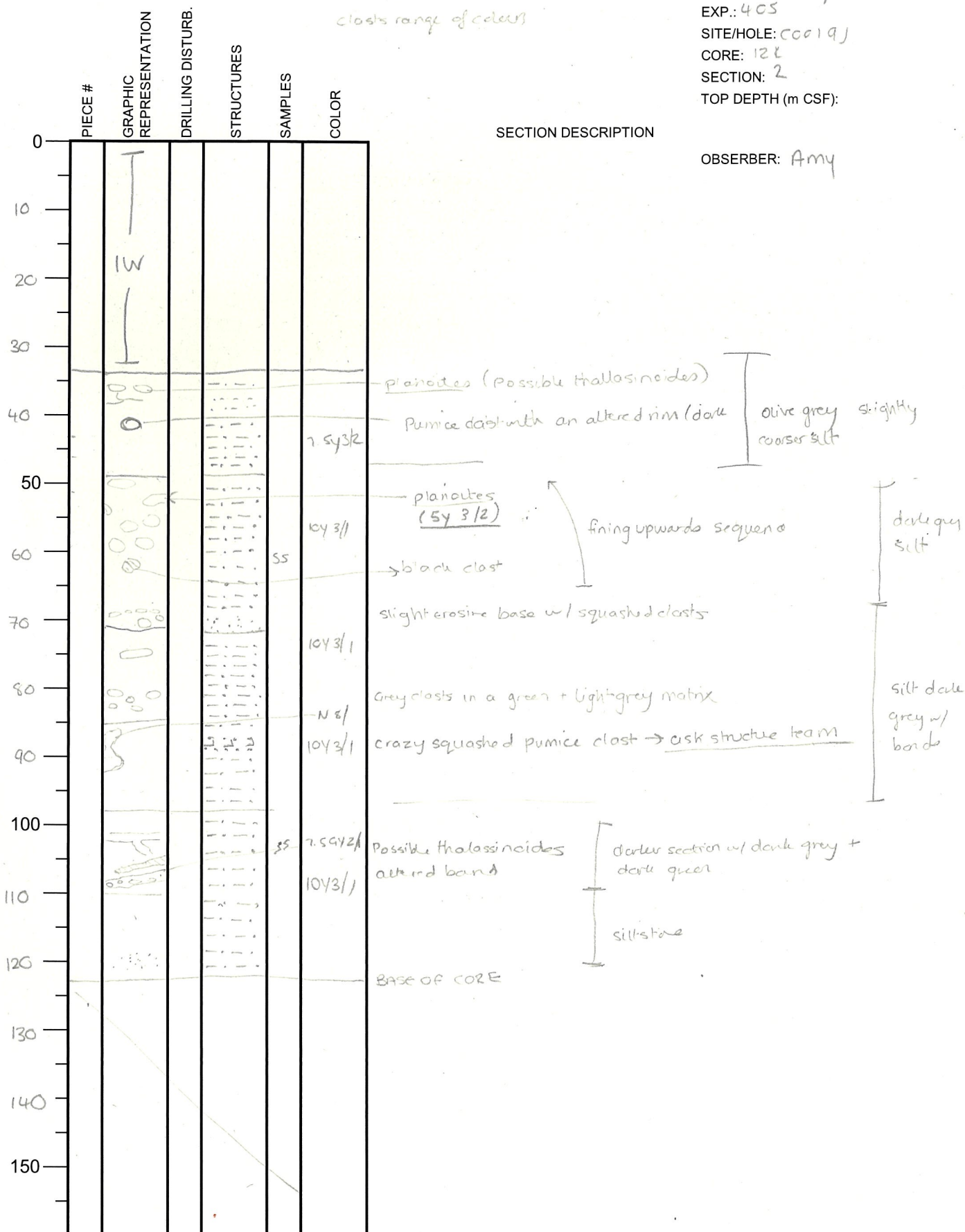
SECTION: 2

TOP DEPTH (m CSF):

close range of colors

SECTION DESCRIPTION

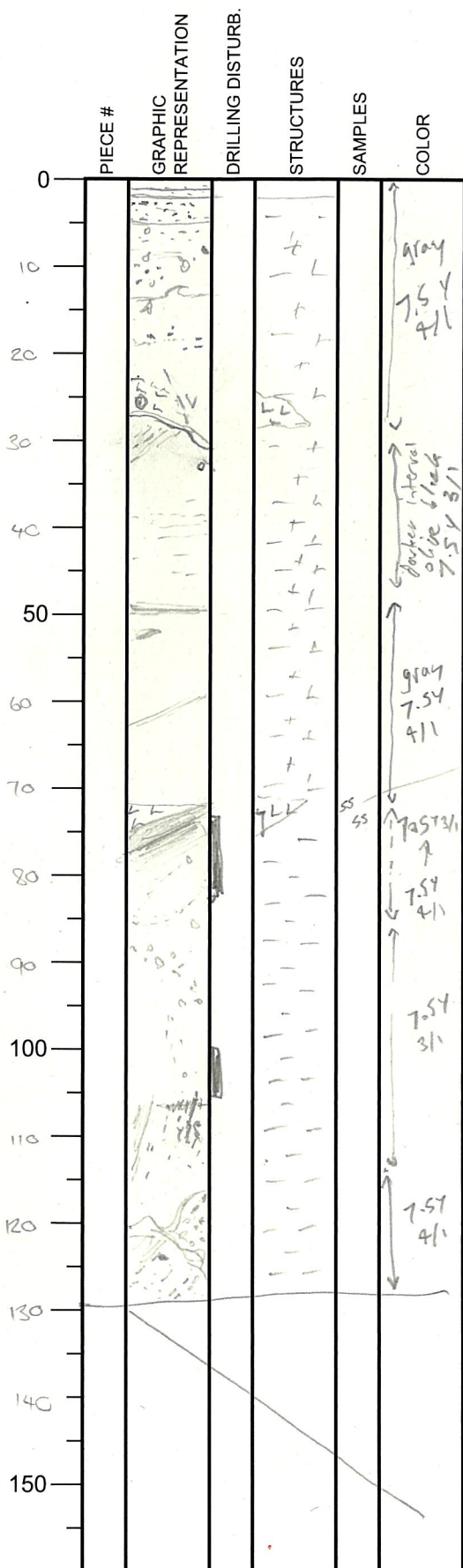
OBSERVER: Amy



International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 13/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 121K
 SECTION: 3
 TOP DEPTH (m CSF): ?



SECTION DESCRIPTION

OBSERVER: Amy / Visdean / Rina

NO. 4
DATE: 13/10/2024
EXP. 405
SITE/HOLE: C00195
CORE: 12
SECTION: 4
TOP DEPTH (m CSF):

OBSERVER: Uisleen Nicholson

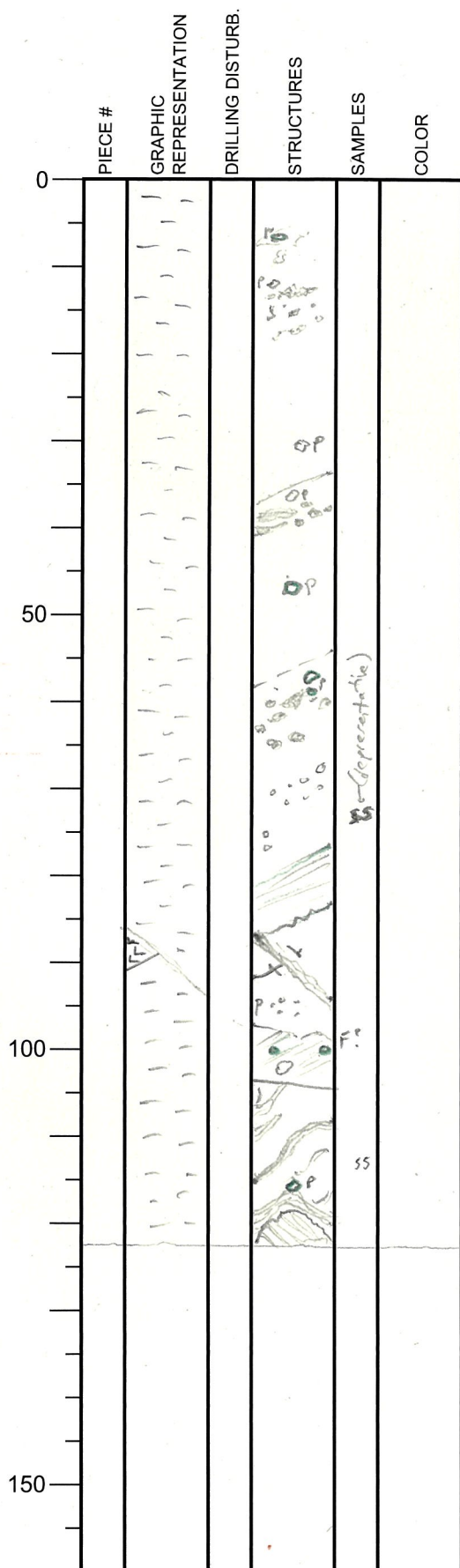


International Ocean Discovery Program

Visual Core Description

NO. 5
 DATE: 13/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 12
 SECTION: 5
 TOP DEPTH (m CSF):

OBSERVER: Uisdean Nicholson



SECTION DESCRIPTION

NO. CC
DATE: 13/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 12
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: Ugdon Nicholson

SECTION DESCRIPTION

grayish olive ~~with~~ mudstone
with subtle bioturbation.

BASE OF CORE @ 18.5 cm.

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				SS	5Y 4-12 grayish olive
50					
100					
150					

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 13/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 13K
 SECTION: 1
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			00P		7.5Y 4/1 gray
			PO		Shell
50					WR
100					7.5Y 4/1 gray
150					

SECTION DESCRIPTION

OBSERVER: Uisden Nicholson

[gray mudstone with dispersed pumice clasts]

} bioturbation (TS?) darker burrows, occ. lighter burrows (ash)
 } more abundant dispersed pumice clast
 } more obvious bioturbation
 BASE SECTION @ 104cm

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 13/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 13K
SECTION: 2
TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: *Clisdon Nicholson*

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0	<i>WR</i>				
					7.5Y 4/1 gray
50			<i>see representative</i>		
					7.5Y 4/1 gray
100					
150					

slightly darker + coarser grained (silty) at base *

green pumice

-1cm diameter ophiomorpha burrow.

subtle green laminations.

wispy fabric

high angle laminations or fractures?

{ concentrated pumice clasts

BASE SECTION @ 101.5cm.

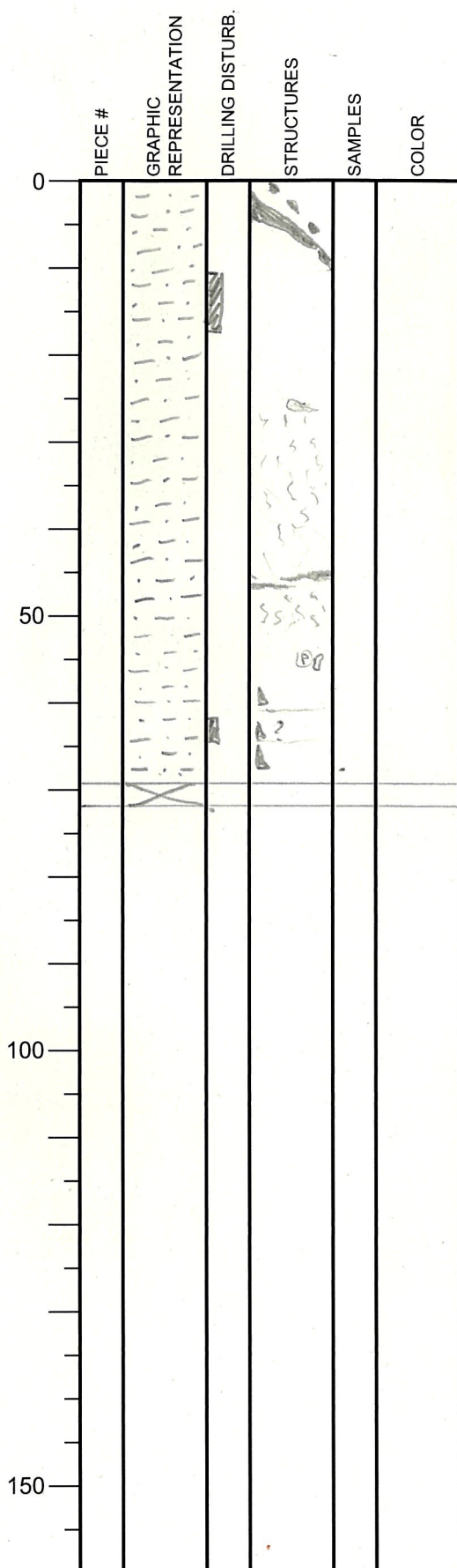
* Bed boundary
may represent
top of an event
bed (concentrated
pumice at top)
↳ debris?
and base of another
bed (turbidity
current ???)

gray mudstone, ~~with~~ variably
pumaceous (+ ash rich),
dispersed black grains throughout (on
some)

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 31/01/2024
 EXP.: 405
 SITE/HOLE: C0019 J
 CORE: 13K
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *Orslem Nicholson*

heavily fractured interval

wavy, high angle alignment of dark (sm?) material

tunnels, mostly filled with fine material

ss. at base, possibly multiple normal grabed beds

Base of section @ 72m.

NO. 4
DATE: 13/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: ~~8~~ 13K
SECTION: CC
TOP DEPTH (m CSF):

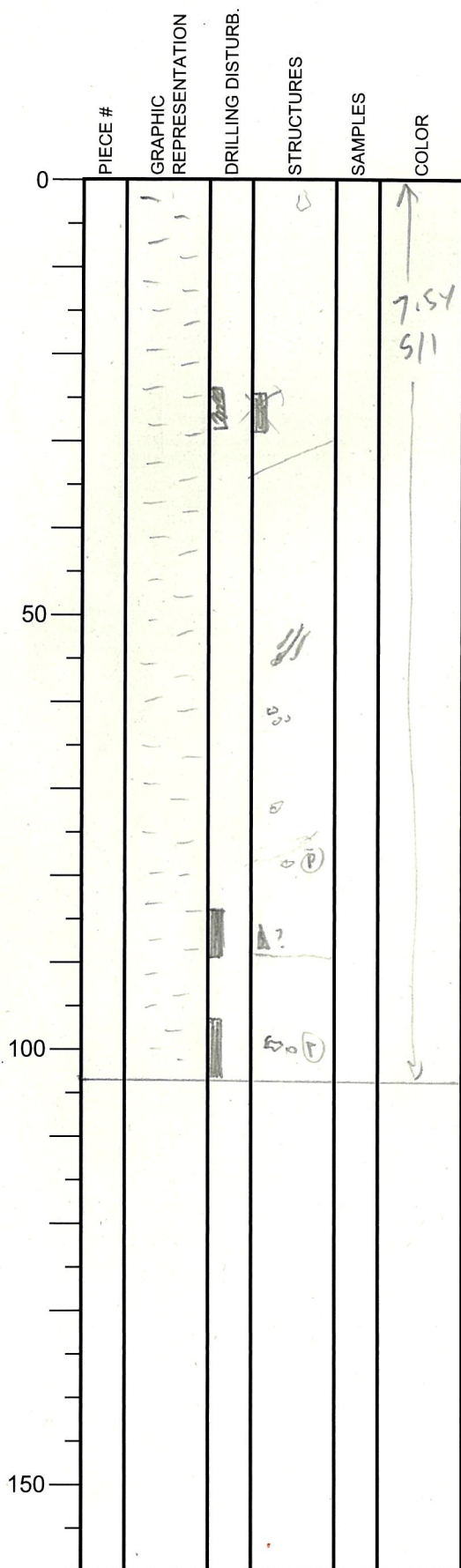
OBSERVER: *Uisdean Nicholson*



International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 13/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 14k
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Aldeen Nicholson

Gray siliceous mud

- burrow

bioturbation evident
 bedding, slightly lighter gray above.

Bioturbation, narrow, bulbous burrows?

Pumice clasts.

green banding

subtle grading? (normal)

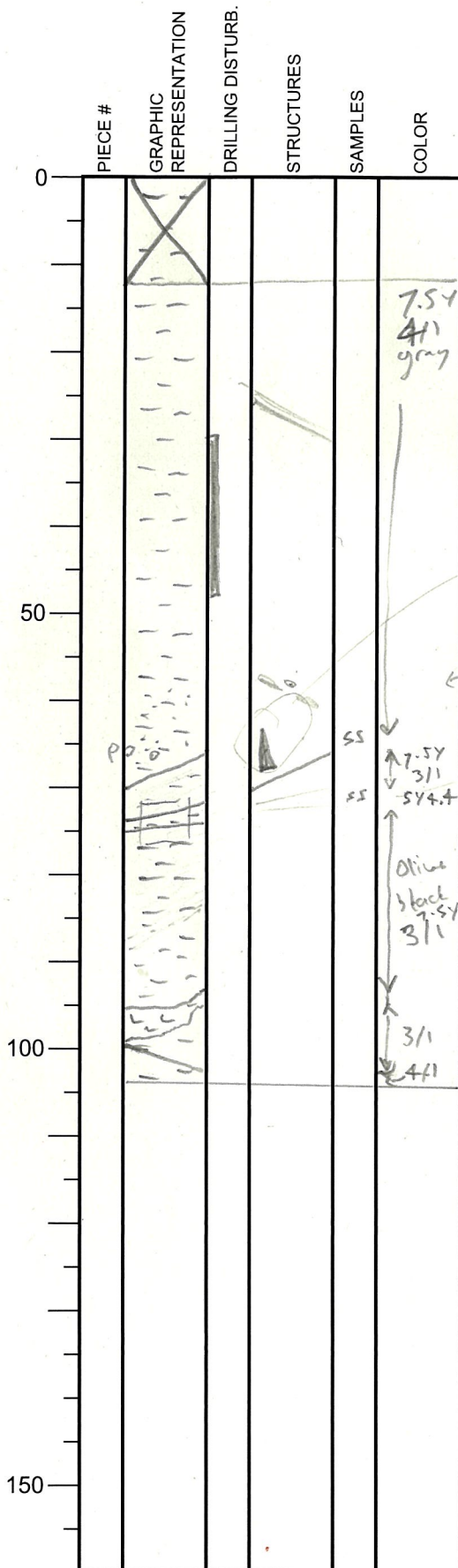
Pumice clasts.

BASE OF SECTION @ 103 cm

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 13/01/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 14K
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Visdean Nicholson

lamination?

apparent grading only - probably a faulted contact below this.

Disturbance
 small angular fragments

Silt, normally graded.
 purple clasts (K0.5mm)



large fragments, some deformed

54.4 - dark olive

- clay in fault gouge, confirmed from ss

Olive black
 7.54
 3/1

- ash, variable in thickness, loading structures on underlying bed
 - deformed fabric
 - S-shaped fold
 - bedding boundary or fault?
 BASE OF SECTION @ 104cm

International Ocean Discovery Program

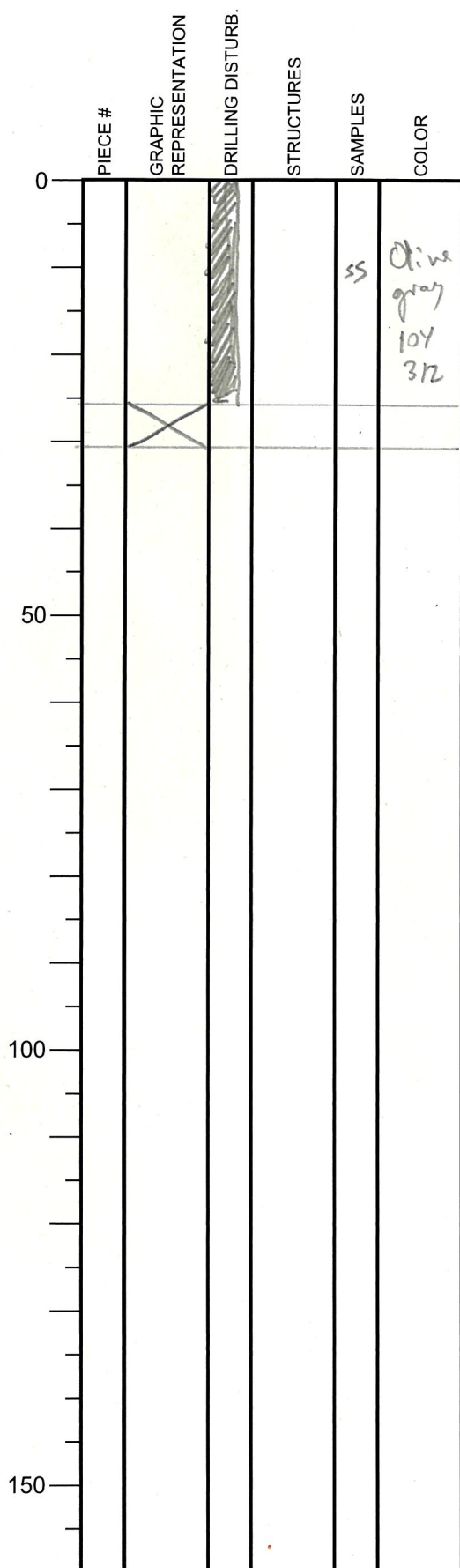
Visual Core Description

NO. 3
 DATE: 13/10/2021
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 14K
 SECTION: 3 CC
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: Ujdaan Nicholson

olive grey mudstone
 completely disturbed by drilling.



BASE OF CORE @ 30.5 cm.

International Ocean Discovery Program Visual Core Description

NO. 405

DATE: 14/10/2024

EXP.: 405

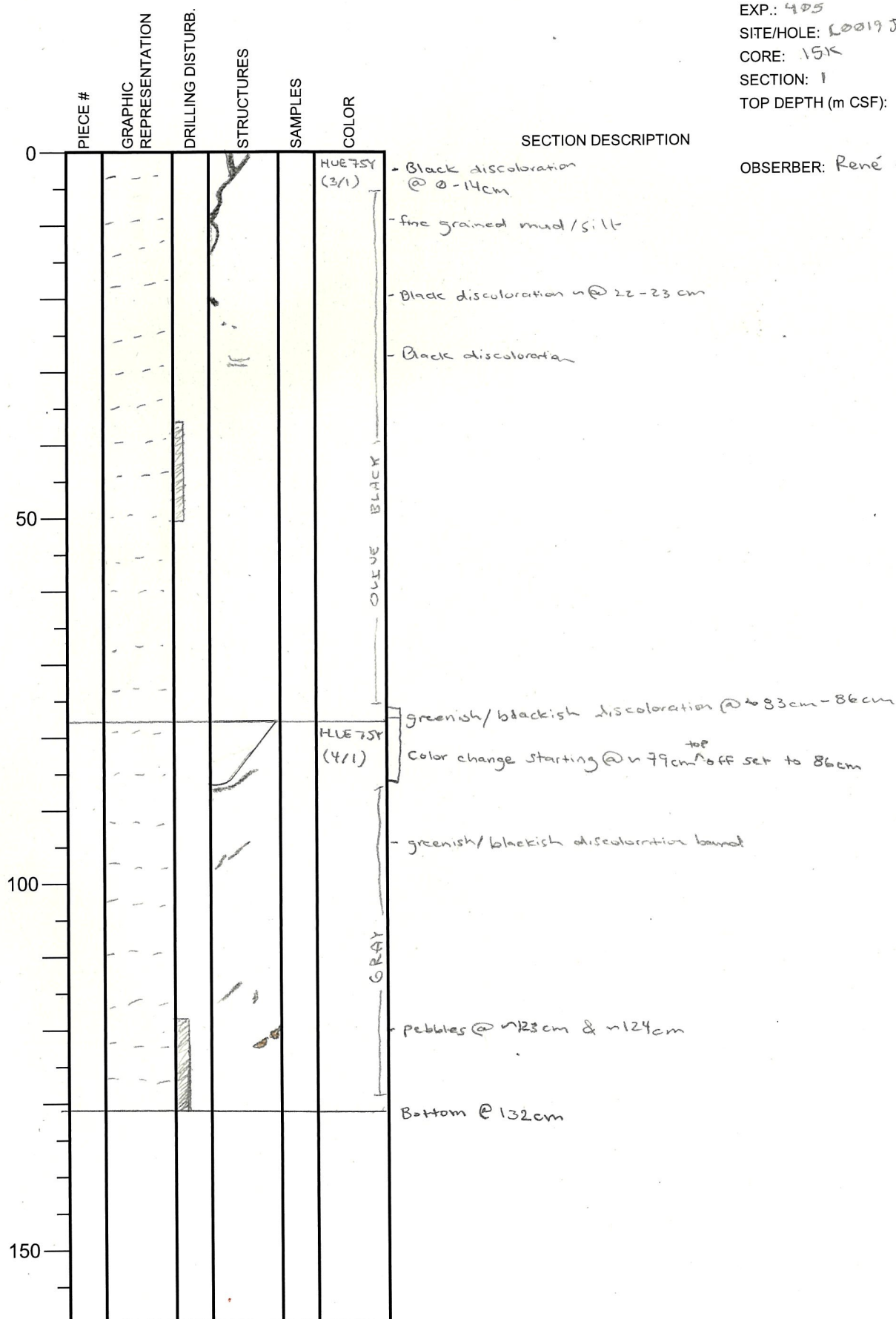
SITE/HOLE: 20019 J

CORE: 15K

SECTION: 1

TOP DEPTH (m CSF):

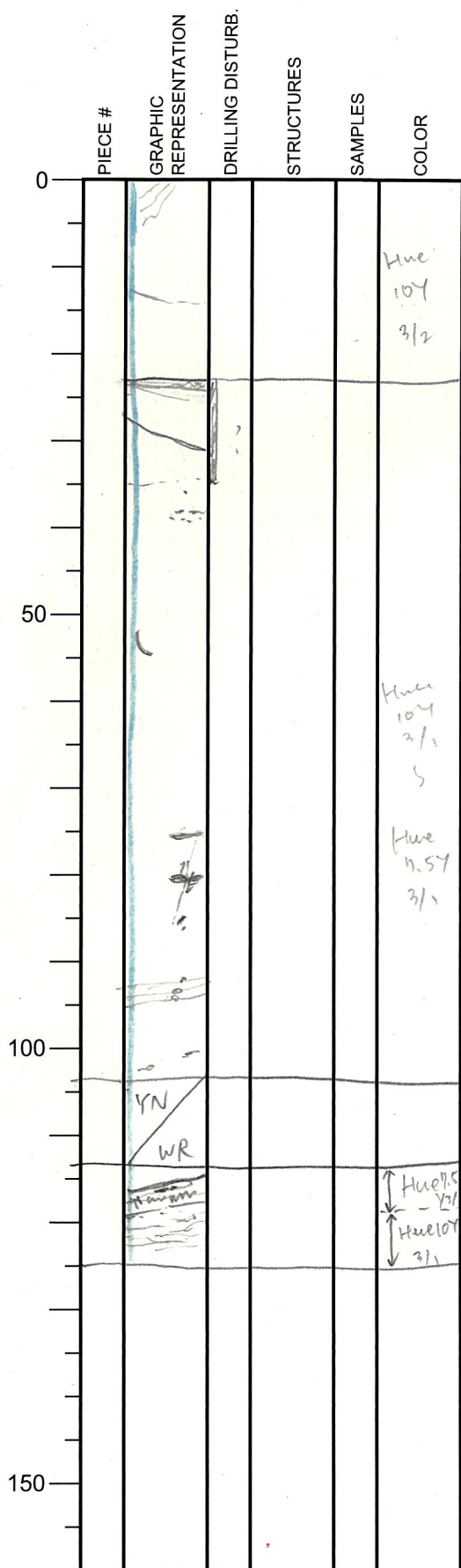
OBSERVER: René Castillo



International Ocean Discovery Program

Visual Core Description

NO.
DATE: 1 / 20
EXP.: 405
SITE/HOLE: C0019J
CORE: 15K
SECTION: 2
TOP DEPTH (m CSF):



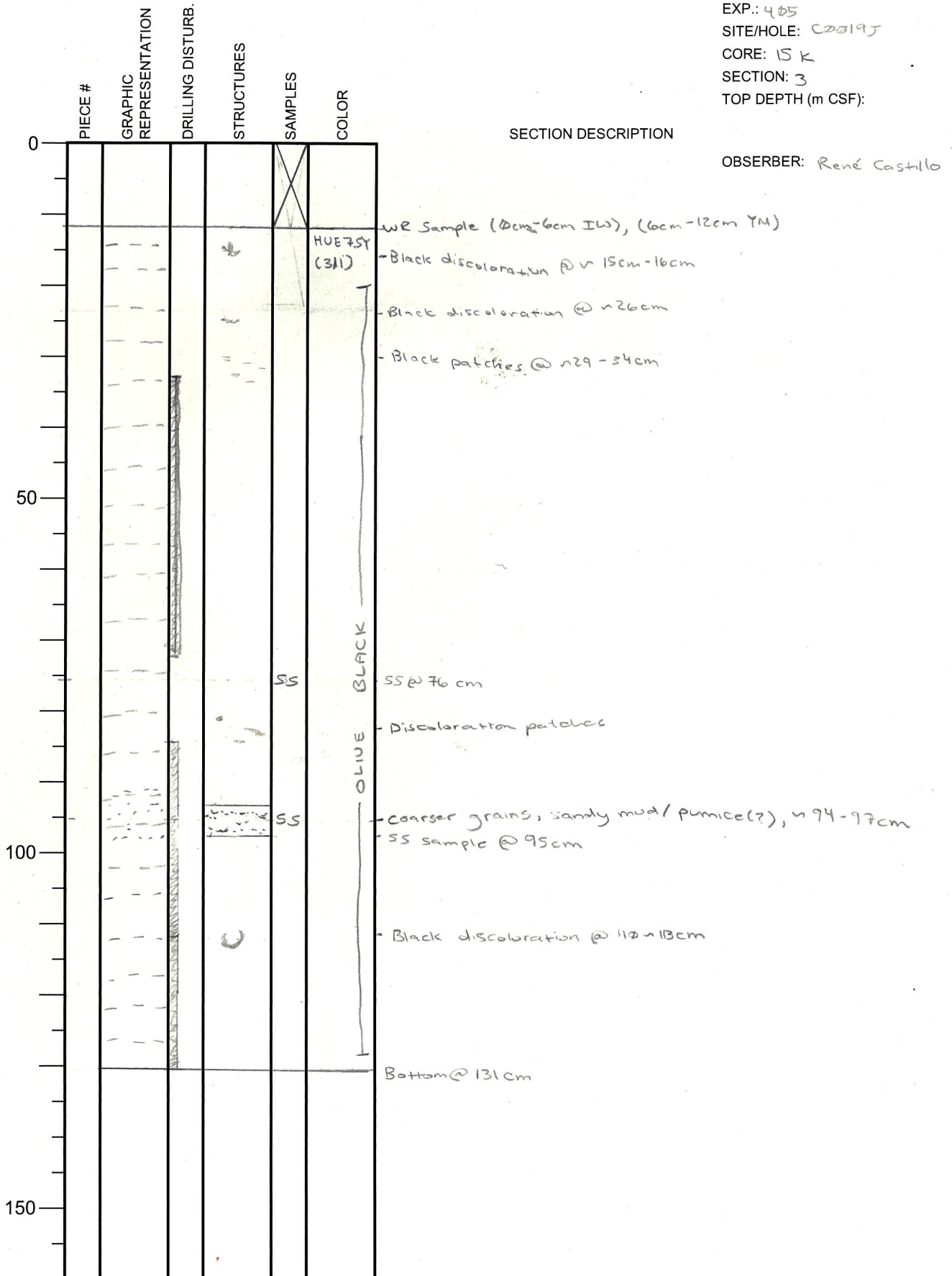
SECTION DESCRIPTION

OBSERVER: RINK, F

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C0319J
 CORE: 15 K
 SECTION: 3
 TOP DEPTH (m CSF):

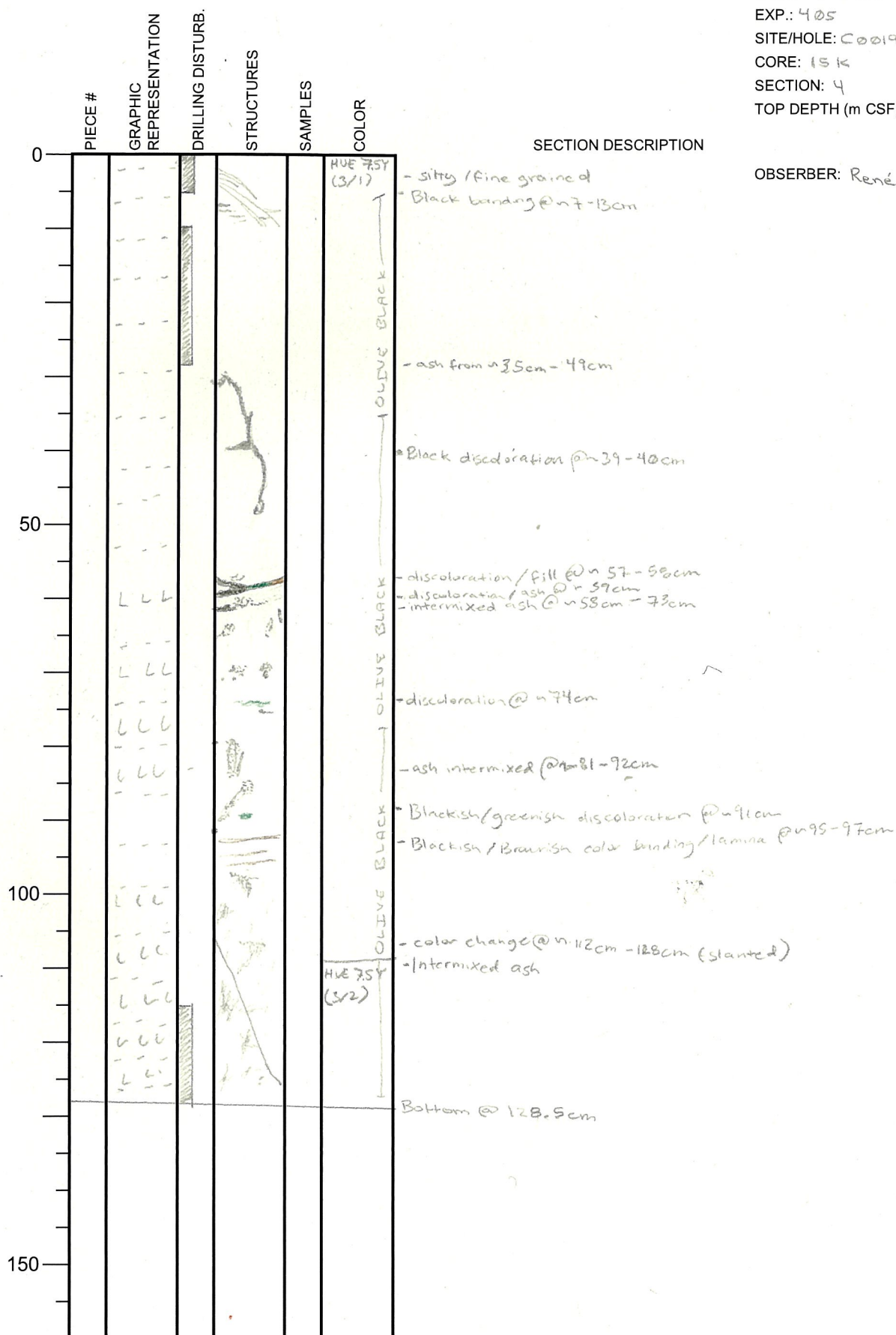


International Ocean Discovery Program

Visual Core Description

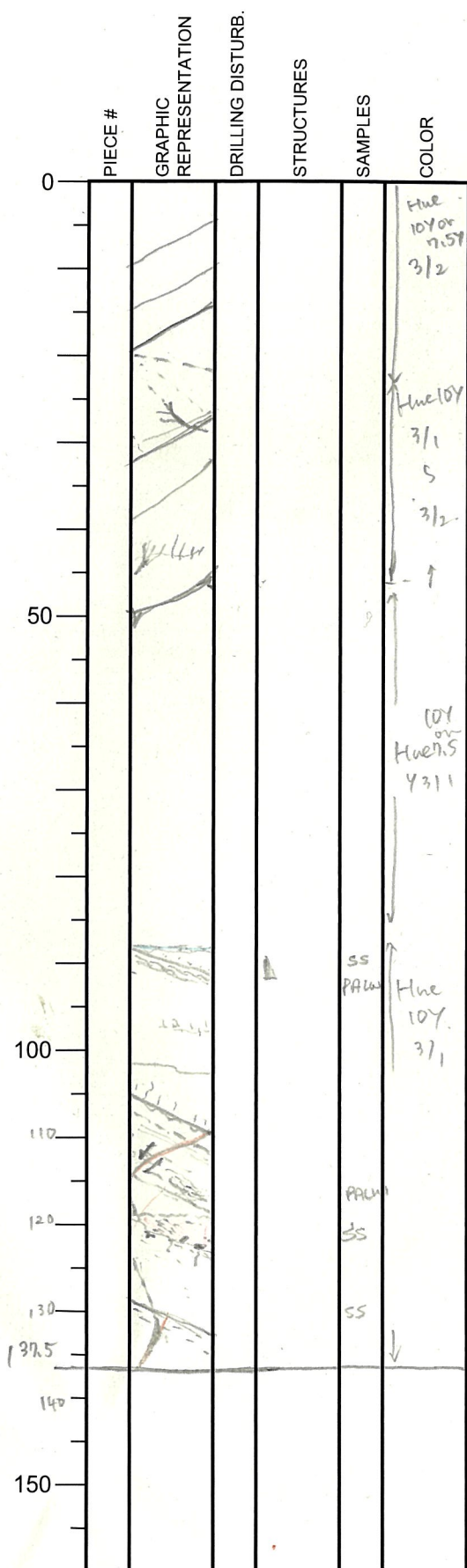
NO. 4
 DATE: 4/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 15K
 SECTION: 4
 TOP DEPTH (m CSF):

OBSERVER: René Castillo



NO.
DATE: 14/10/20
EXP.: 405
SITE/HOLE: C00197
CORE: 15k
SECTION: 5
TOP DEPTH (m CSF):

OBSERVER: Rina, Fukuchi



SECTION DESCRIPTION

5-10 - fracture with black laminar

10-15 -

1520 -

- 18-20 altered greenish band.

lamination was creased or folded? 25-27 cm
to steep.

42 ~ 45 an' ?
wispy

leach: Olive black mud with
black lamina

101
on
Huen. S
Y311

- SS @ 29cm

clay top Subhorizontal cap. 5mm ~ 7mm (88-89 cm) $\blacktriangle$ homogeneous?

- PALW @ 91cm

88-92.5 up ward fining bedding but erosion?

105-110 black lamina.

degas & defuid texture

PALW Q 110

hidicus? 118.5 cm

↓ ash & matrix mixed, mottled texture. bottom part was more poorly sorted.

SS @ 121cm

55 @ 128 cm

turbidite

erosion

plate.

Normal functioning? $\rightarrow$

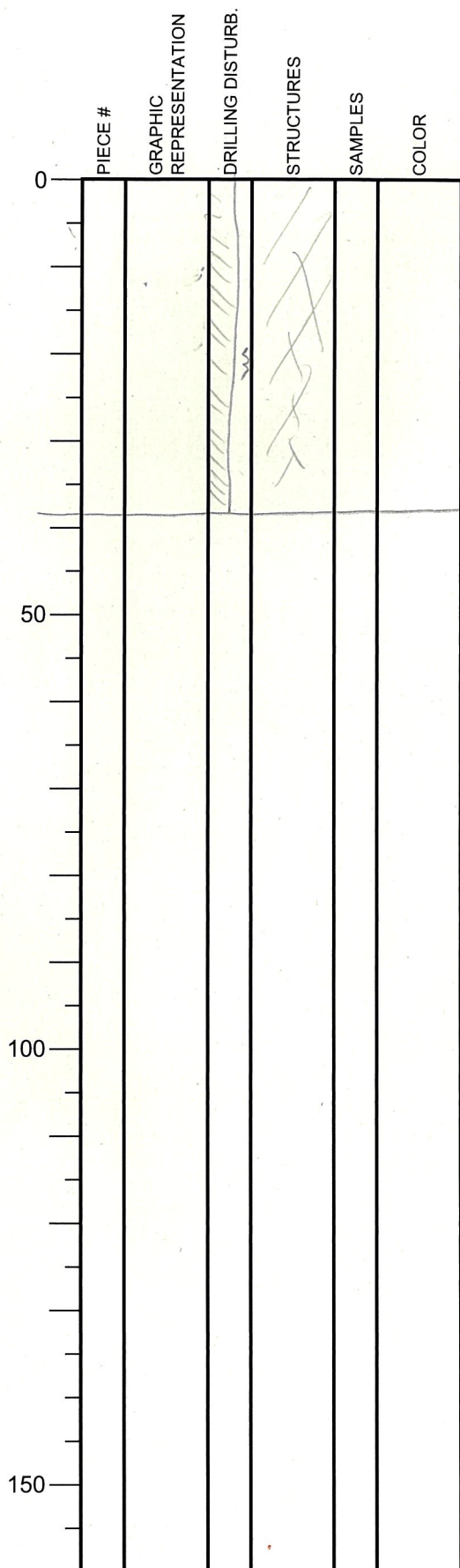
International Ocean Discovery Program

Visual Core Description

NO.
 DATE: 14/10/20
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 15K
 SECTION: CC
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

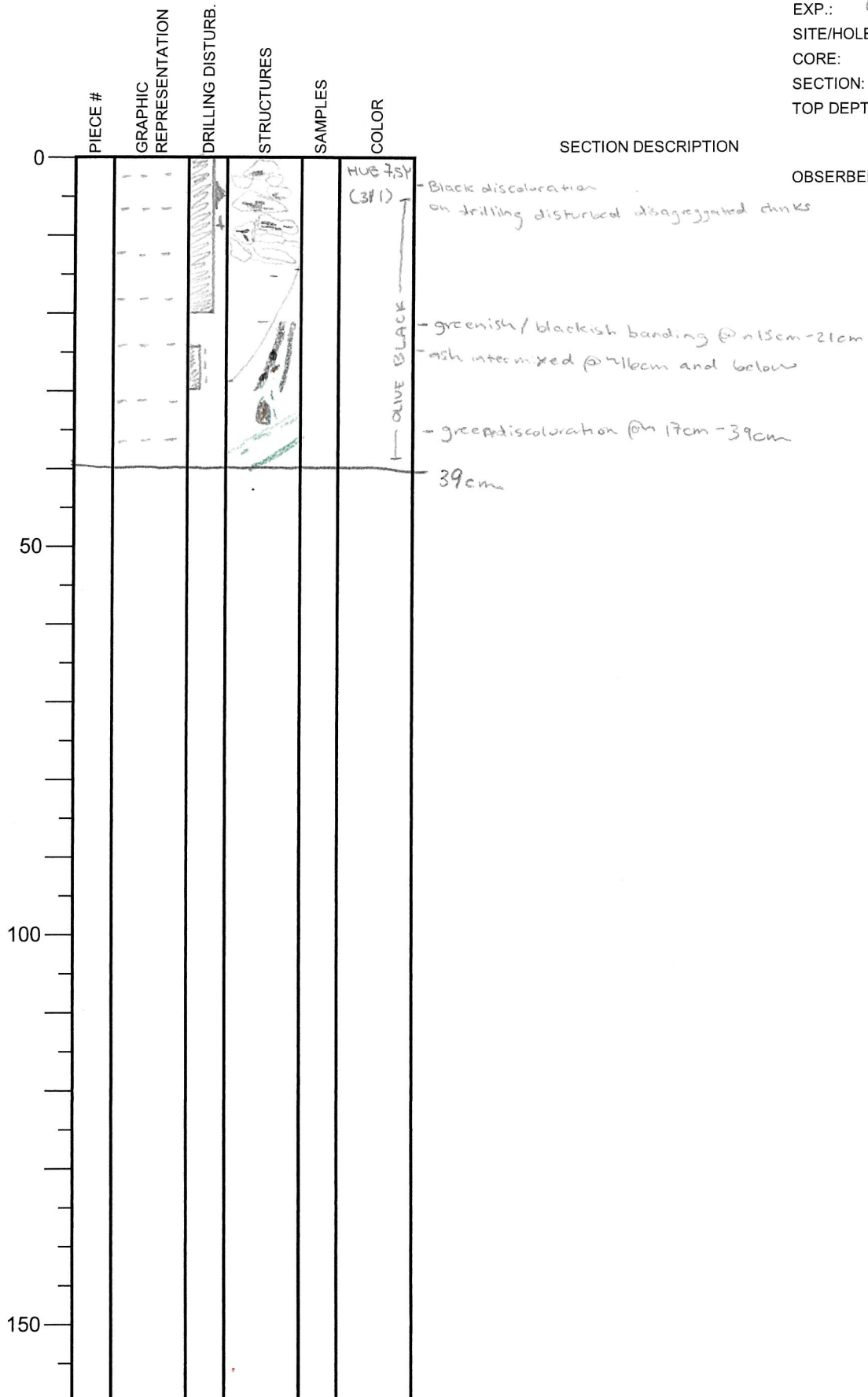
OBSERVER: RINA, F



International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 14/10/20
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 16K
 SECTION: 1
 TOP DEPTH (m CSF):



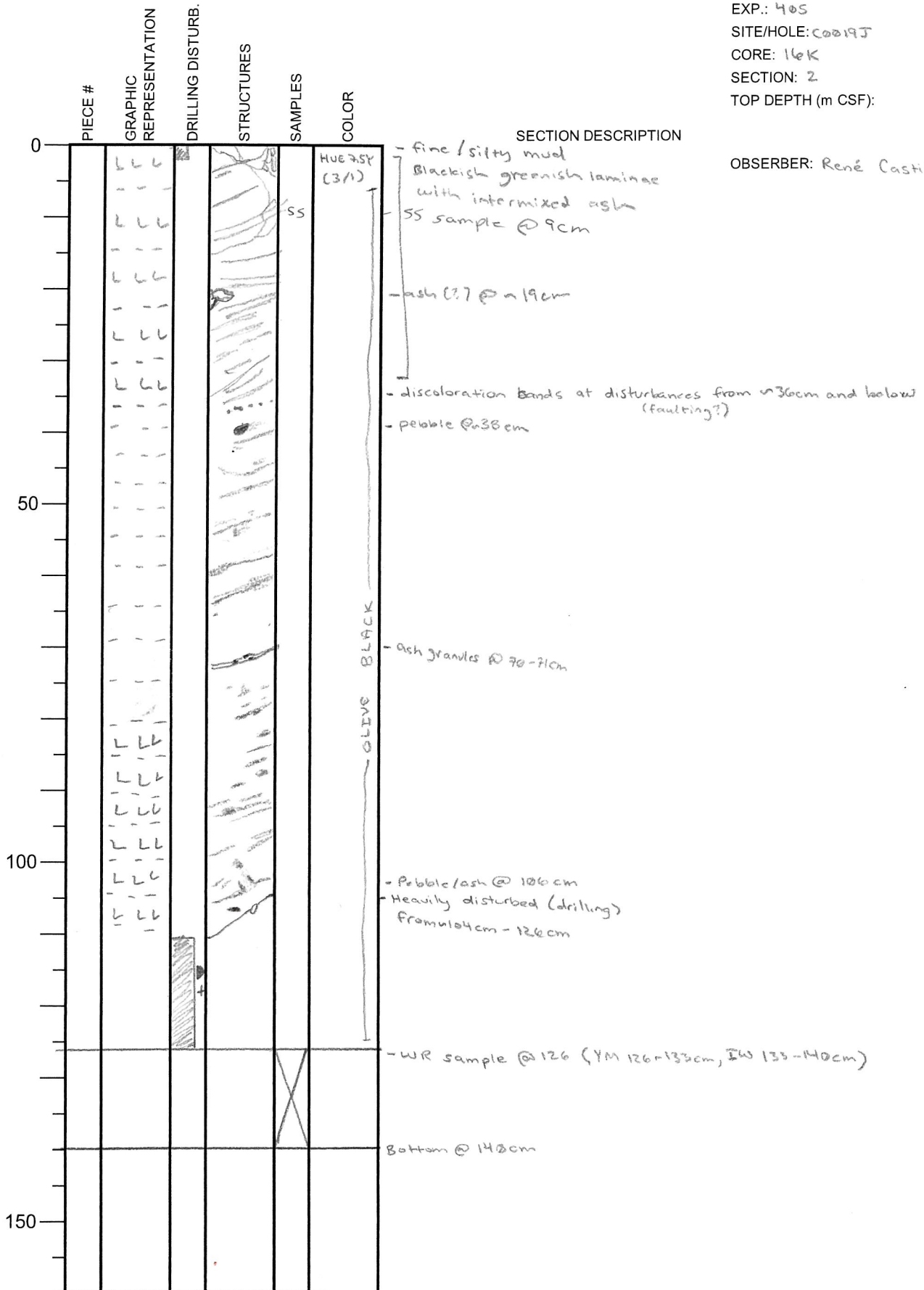
OBSERVER: RINA, FUKUCHI & Rene Castillo

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 14 / 10 / 20 24
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 16K
 SECTION: 2
 TOP DEPTH (m CSF):

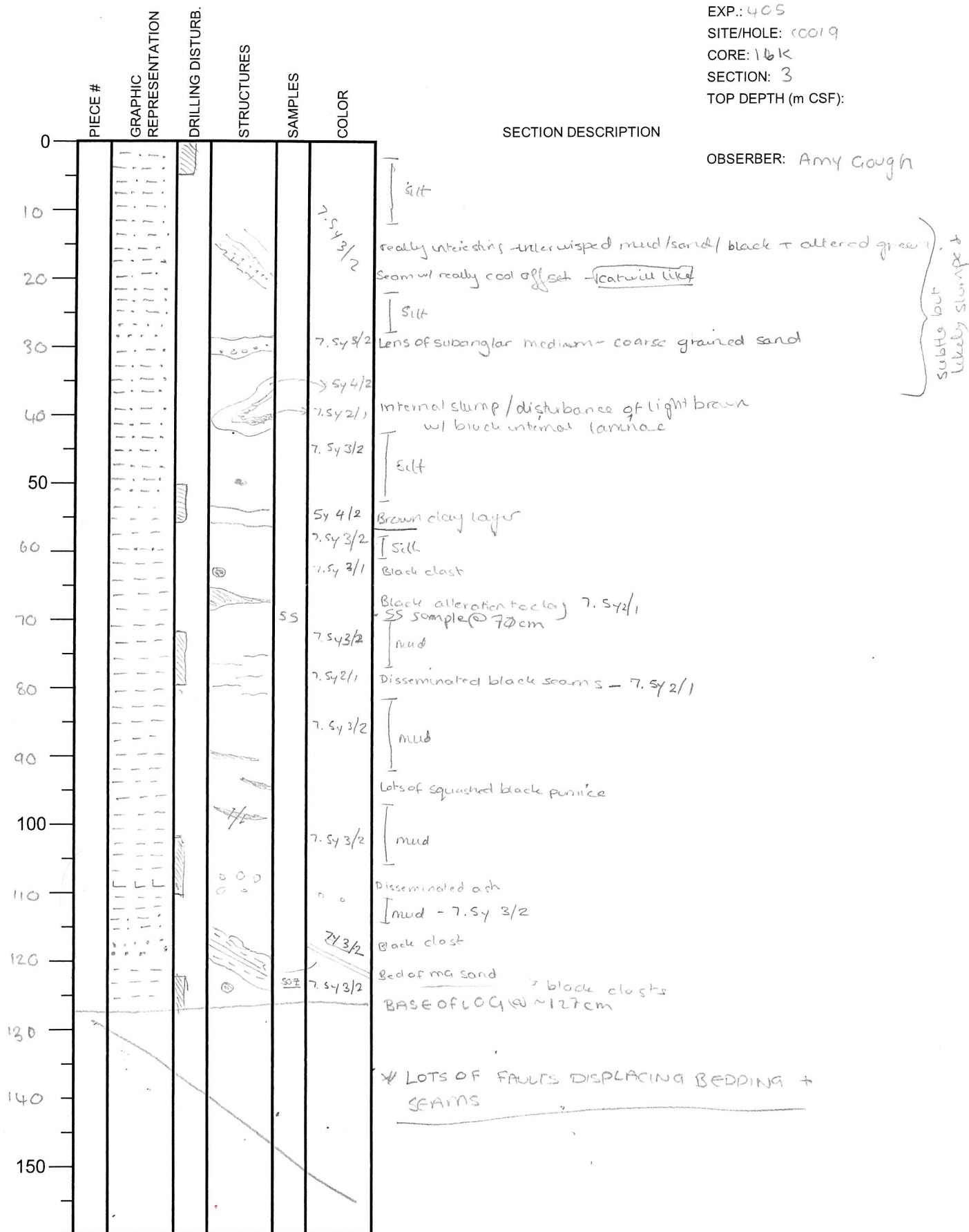
OBSERVER: René Castillo



International Ocean Discovery Program

Visual Core Description

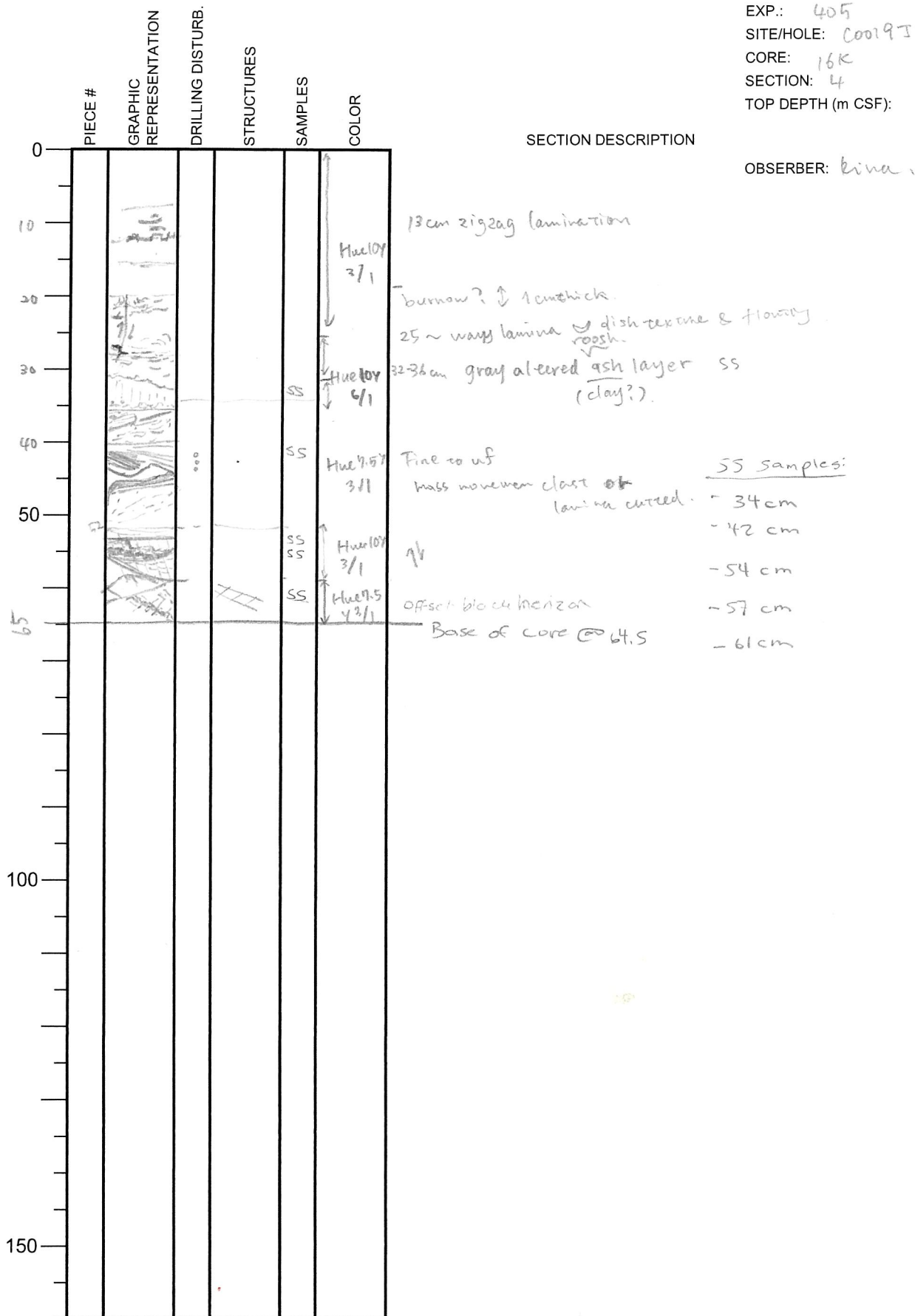
NO. 3
DATE: 14/10/2024
EXP.: 405
SITE/HOLE: C0019
CORE: 161K
SECTION: 3
TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

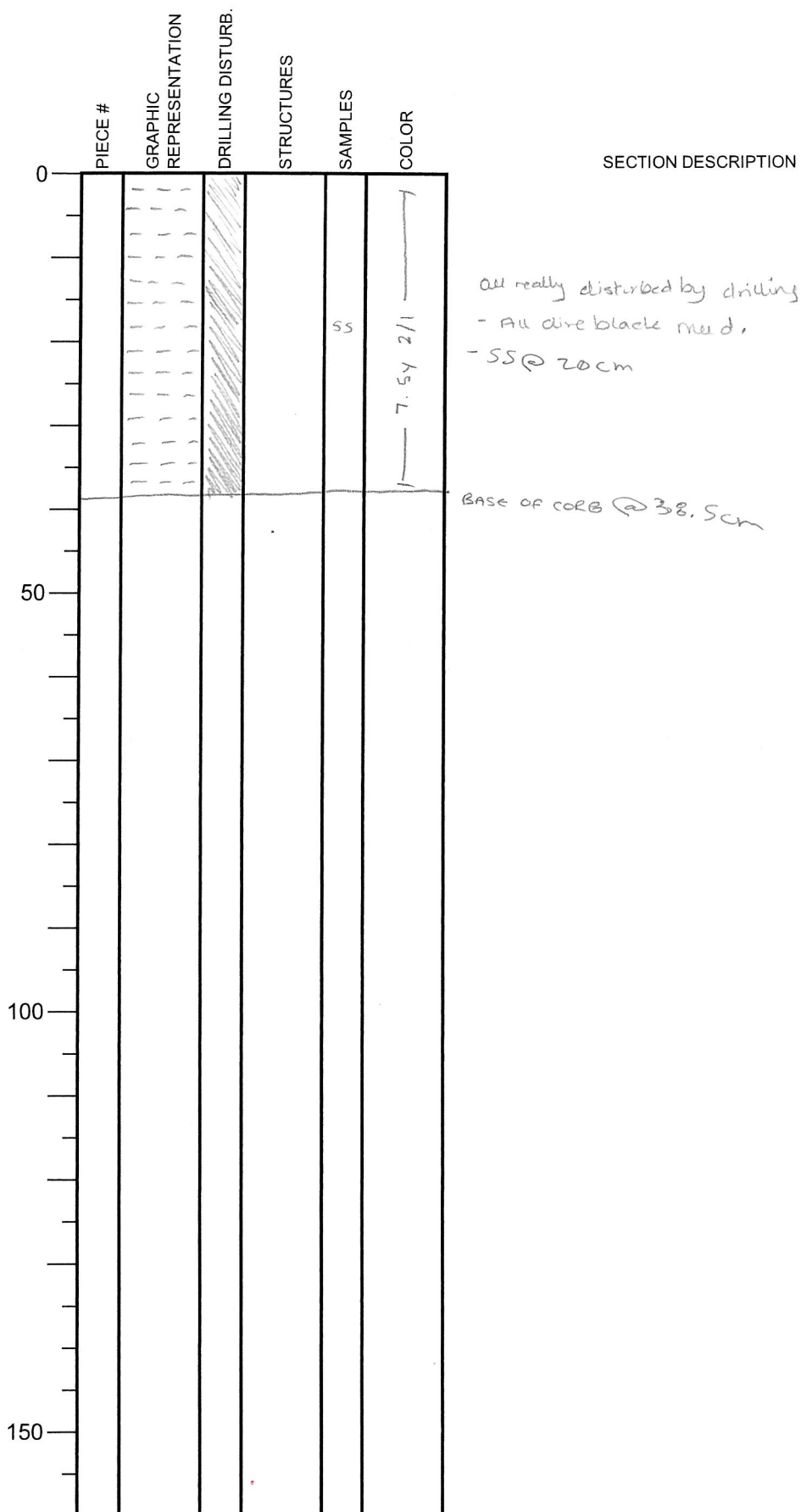
NO. 4
 DATE: 17/10/20
 EXP.: 405
 SITE/HOLE: C0019T
 CORE: 16K
 SECTION: 4
 TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

NO. 5
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C0019
 CORE: 16K
 SECTION: CC
 TOP DEPTH (m CSF):

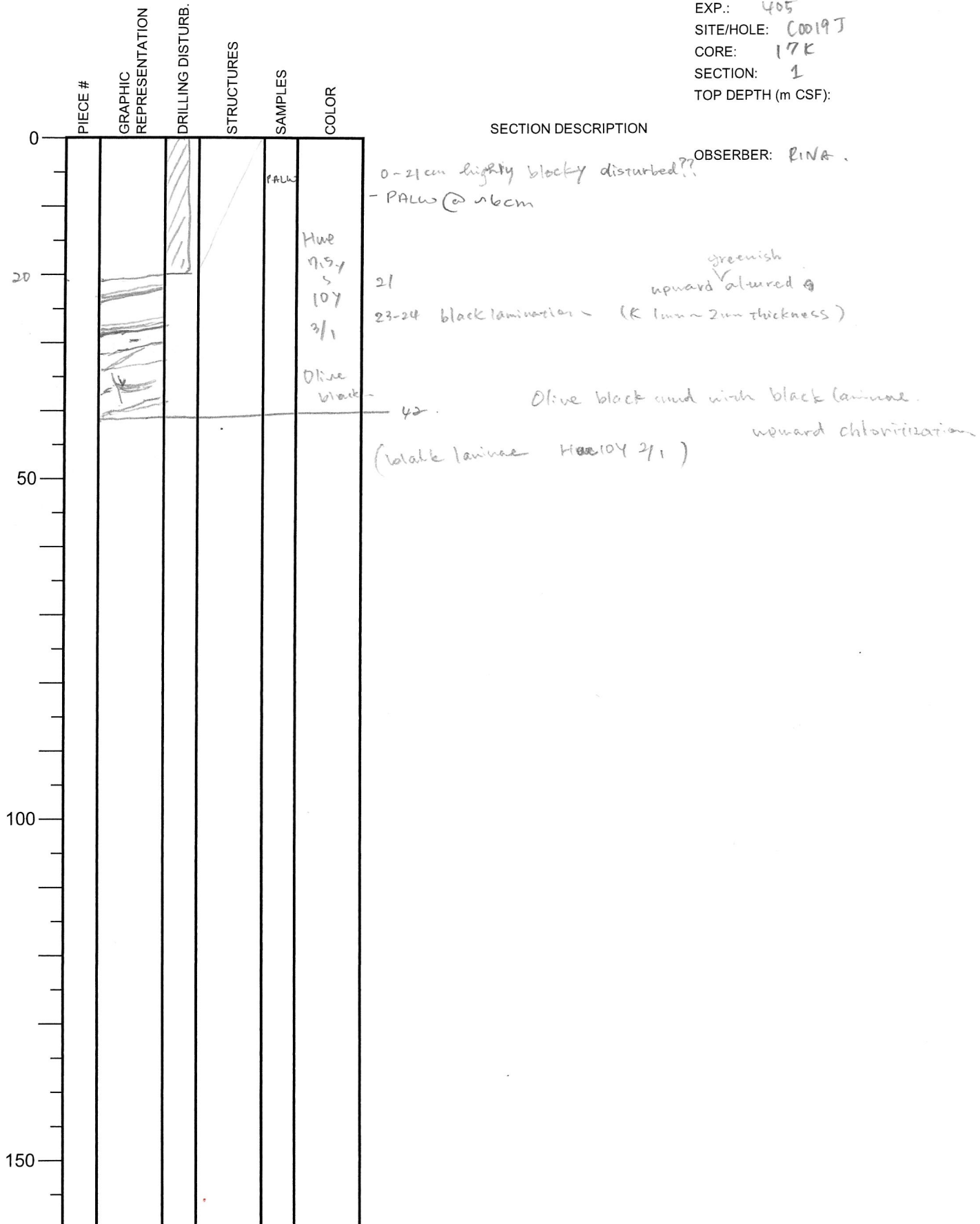


OBSERVER: Amy Cough

International Ocean Discovery Program

Visual Core Description

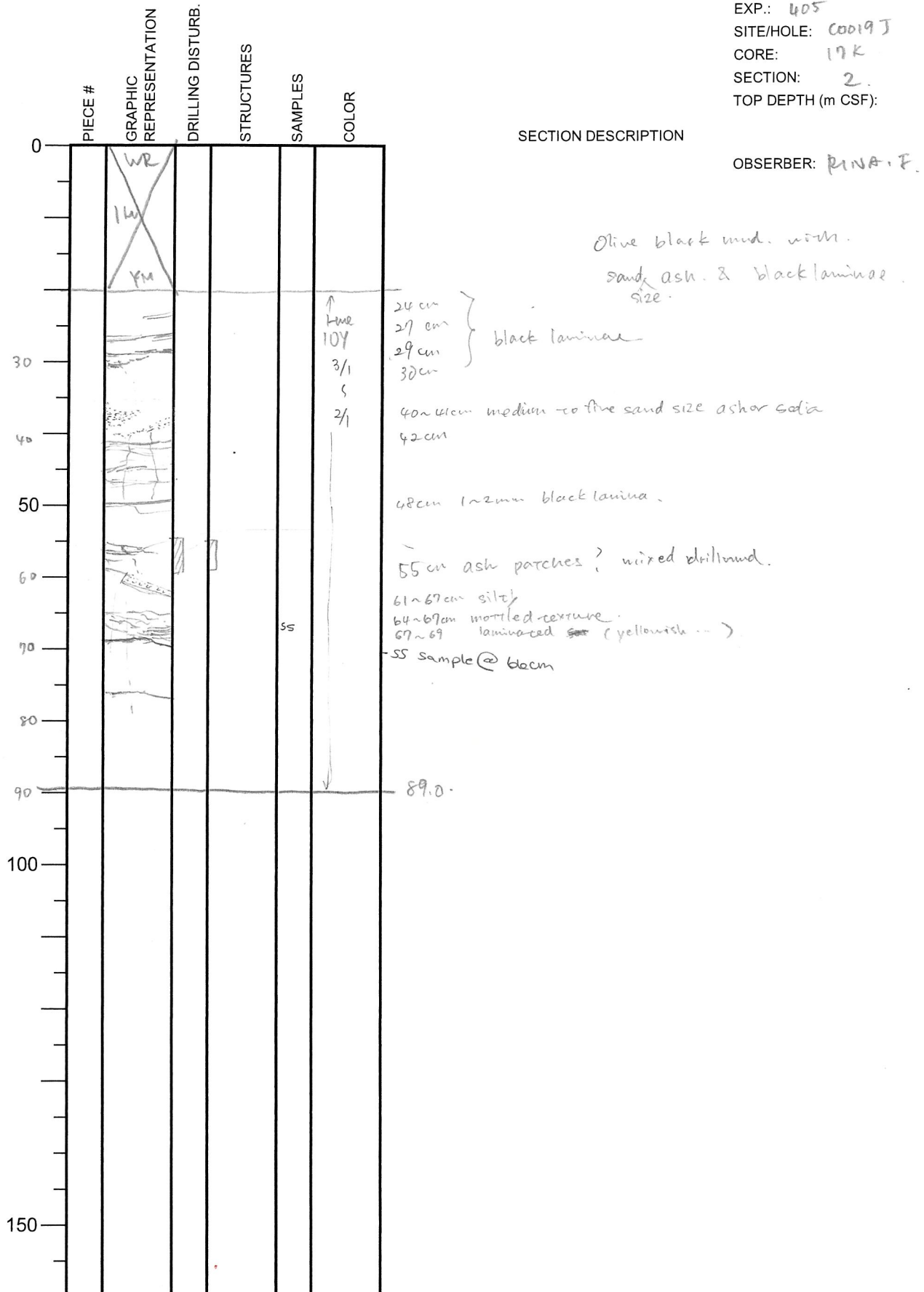
NO.
DATE: 14/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 17K
SECTION: 1
TOP DEPTH (m CSF):



International Ocean Discovery Program

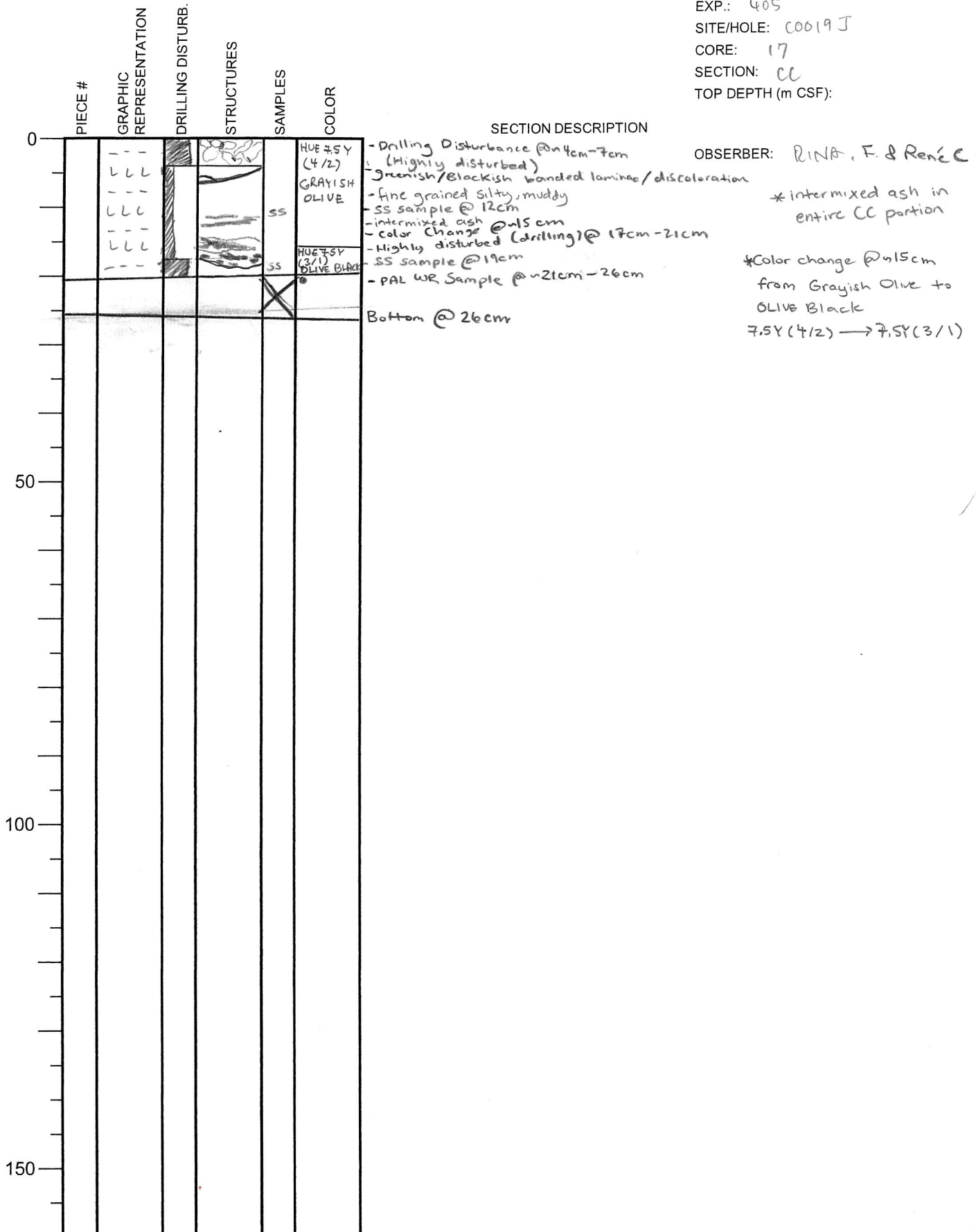
Visual Core Description

NO.
DATE: 14/10/20
EXP.: 405
SITE/HOLE: C0019J
CORE: 17K
SECTION: 2
TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

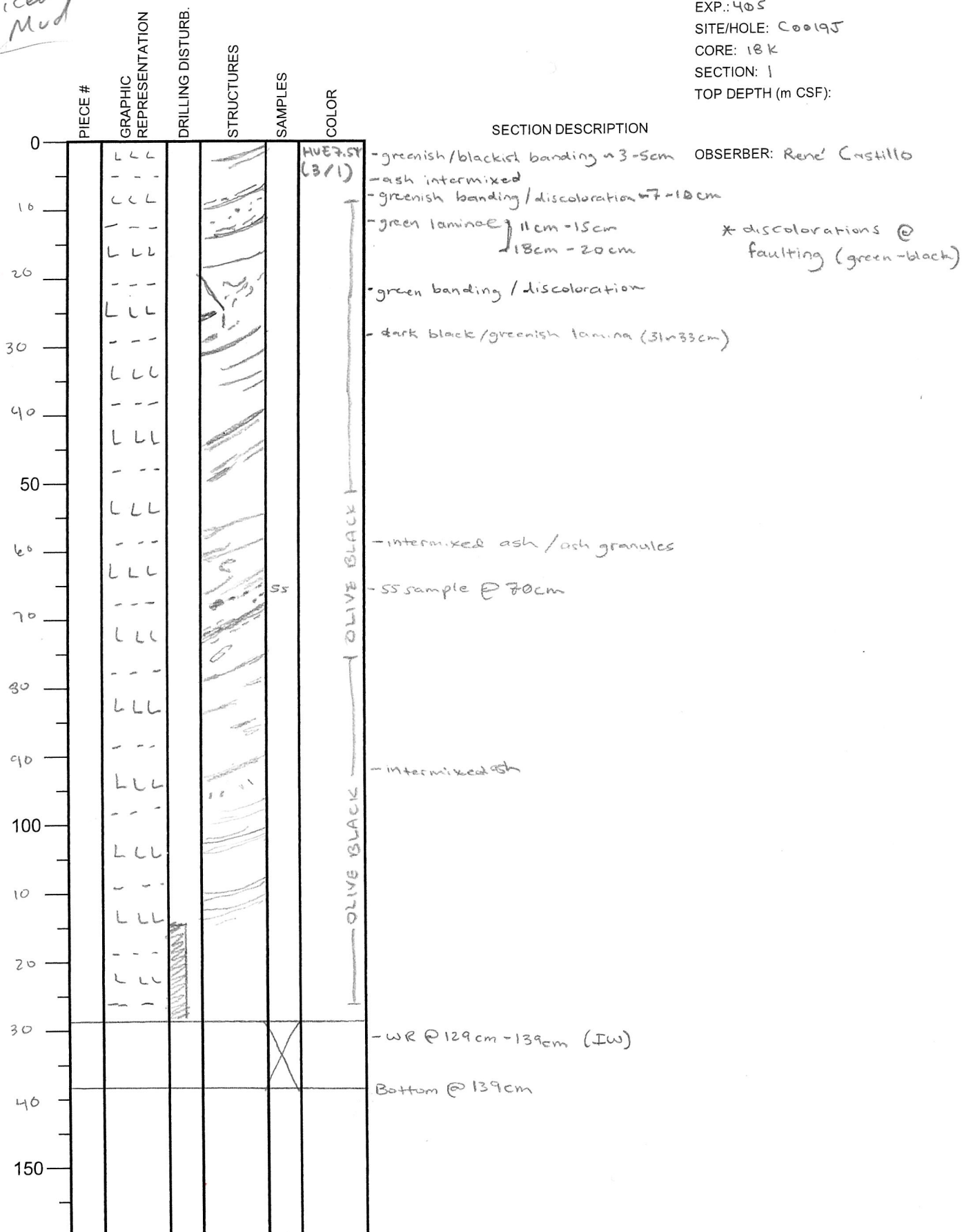
NO. 3
DATE: 14/10/2024
EXP.: 405
SITE/HOLE: C0019 J
CORE: 17
SECTION: CC
TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

Olive black
Siliceous
Mud

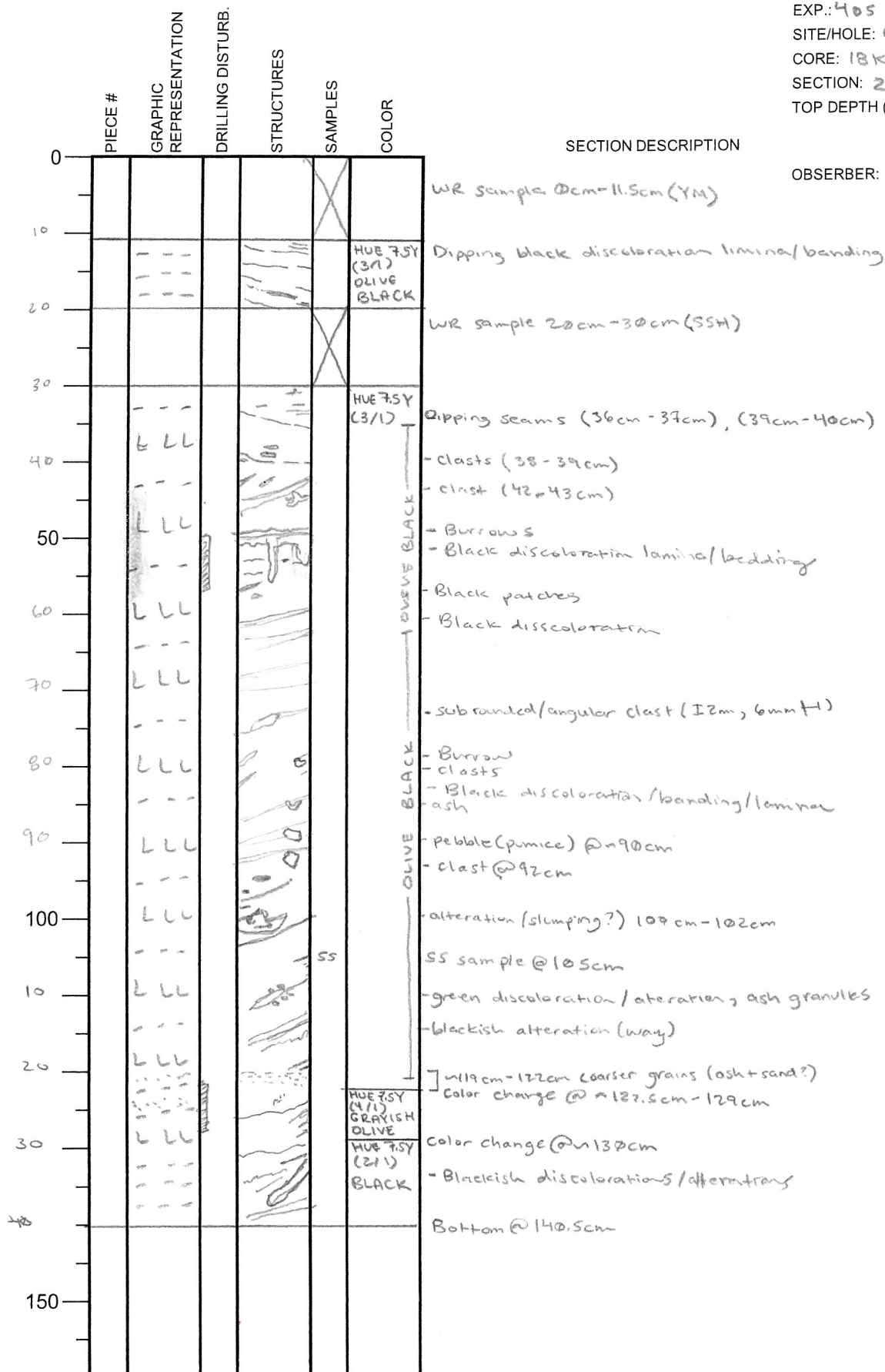
NO. 1
DATE: 14/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 18K
SECTION: 1
TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 18K
 SECTION: 2
 TOP DEPTH (m CSF):



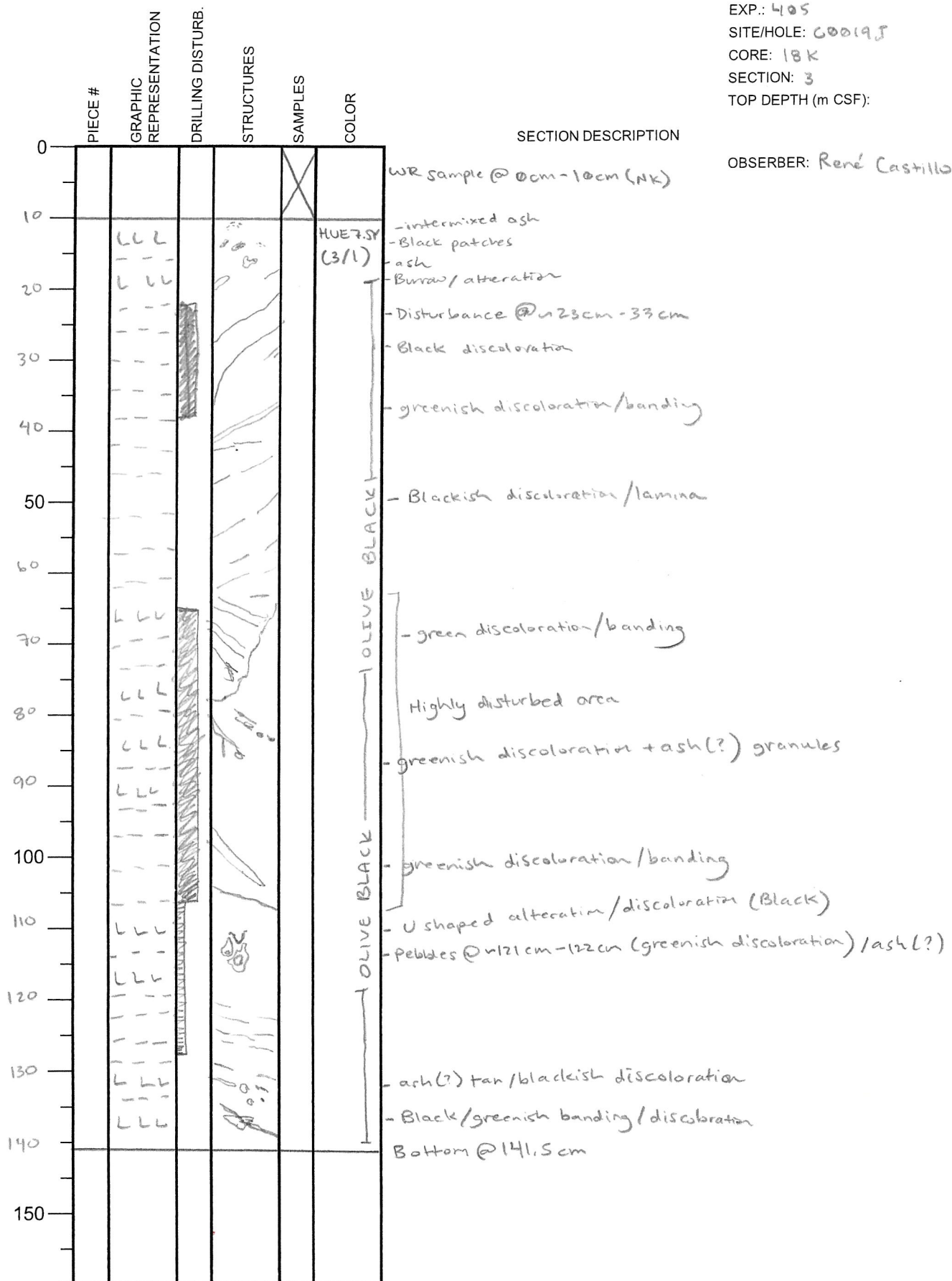
OBSERVER: René Castillo

* MUDDY/SILTY, Lots of Blackish-greenish banding/lamina

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 18K
 SECTION: 3
 TOP DEPTH (m CSF):

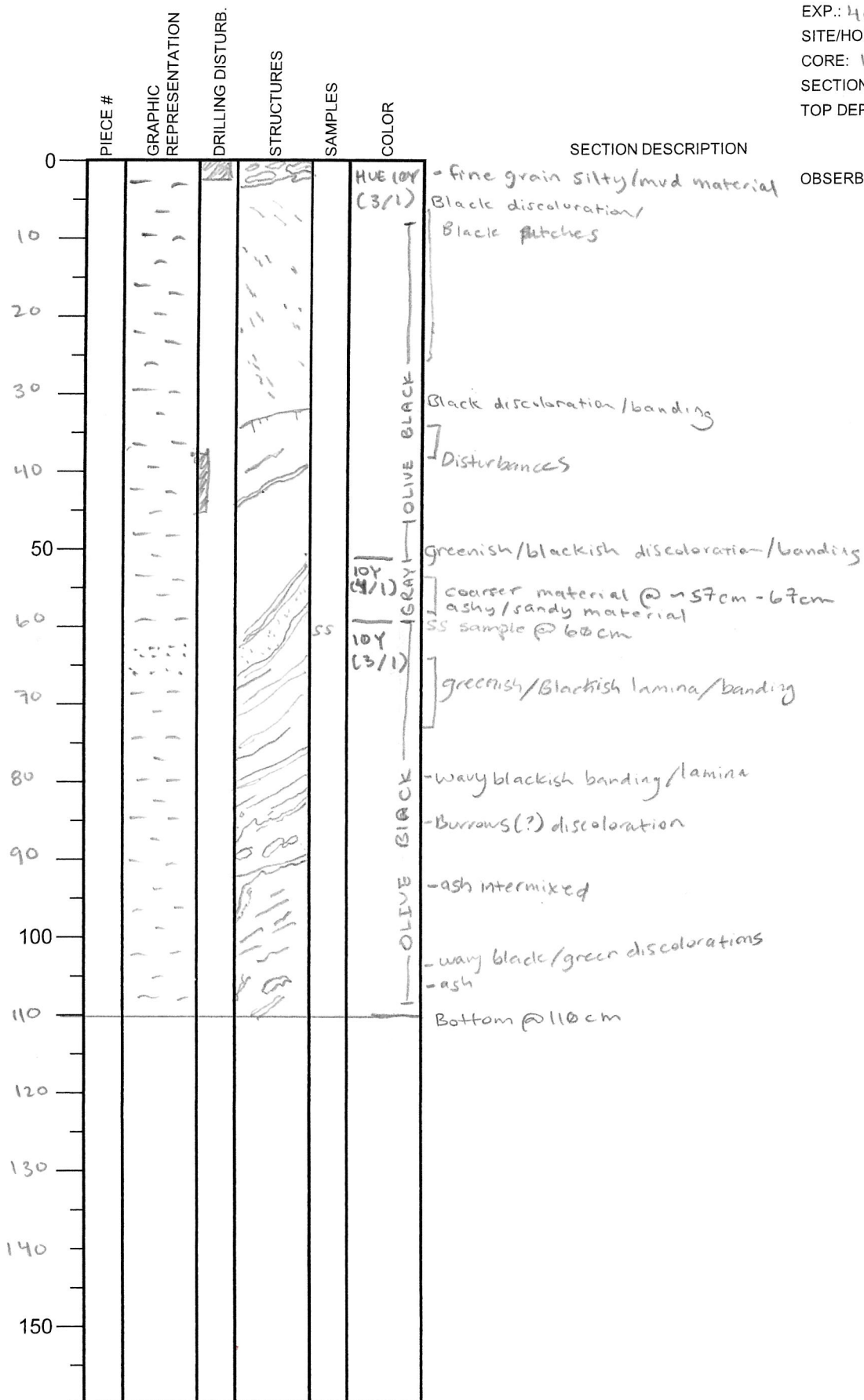


International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 18K
 SECTION: 4
 TOP DEPTH (m CSF):

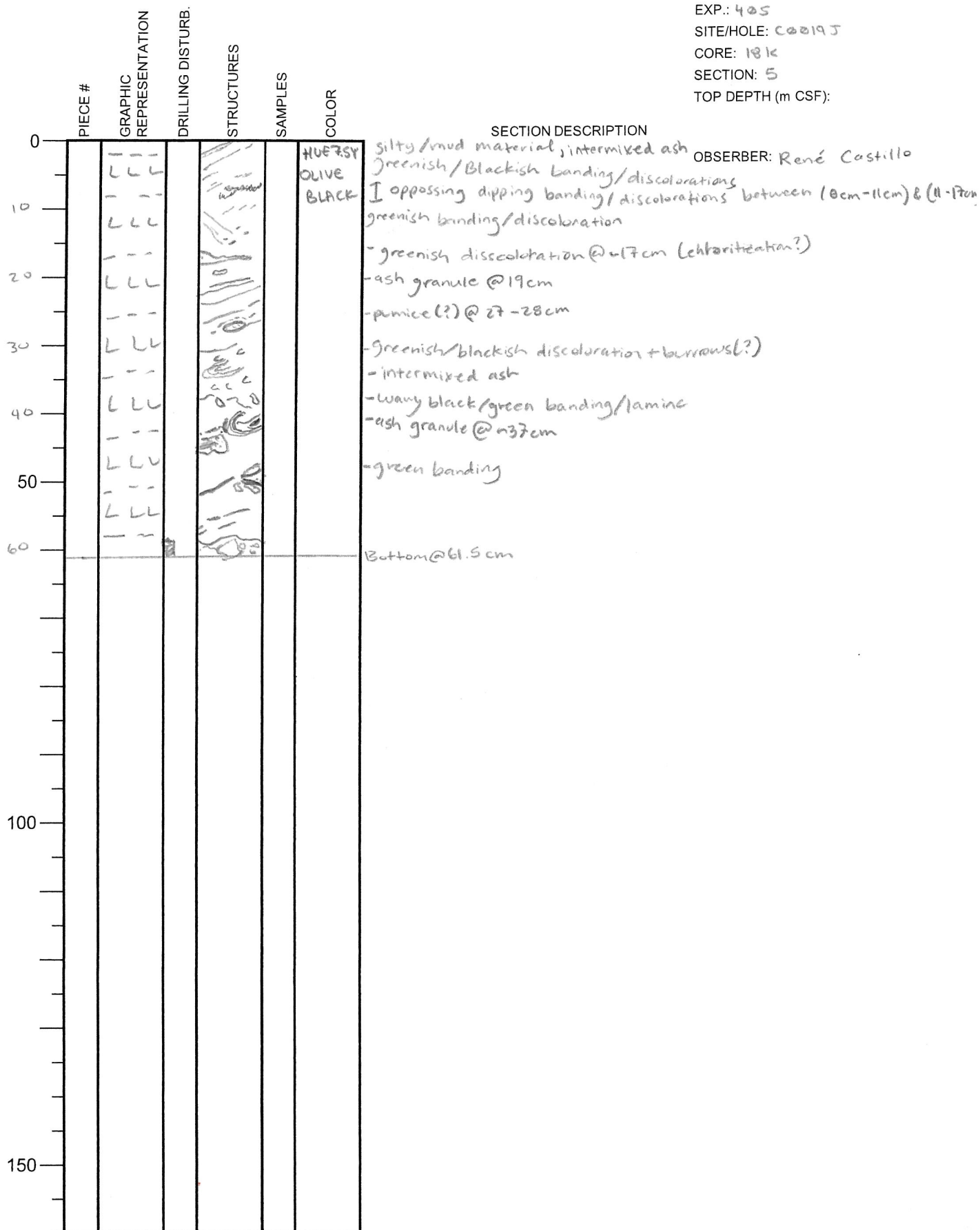
OBSERVER: René Castillo



International Ocean Discovery Program

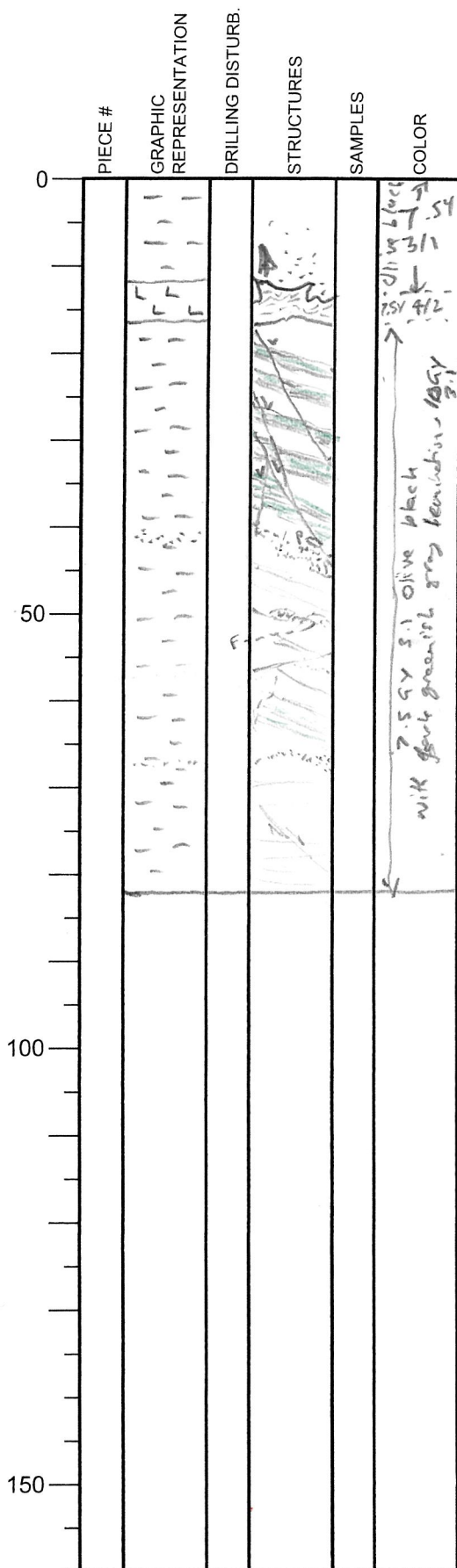
Visual Core Description

NO. 5
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 181K
 SECTION: 5
 TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

NO. 6
DATE: 19/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 18K
SECTION: 6
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: U. S. Dean Nicholas

graded mud, silty at base

loading structure
- grayish-olive ash

green laminations

sand/silt bed, not uniform thickness

ash lens deformed by faulting

faulted interval with more complex structure

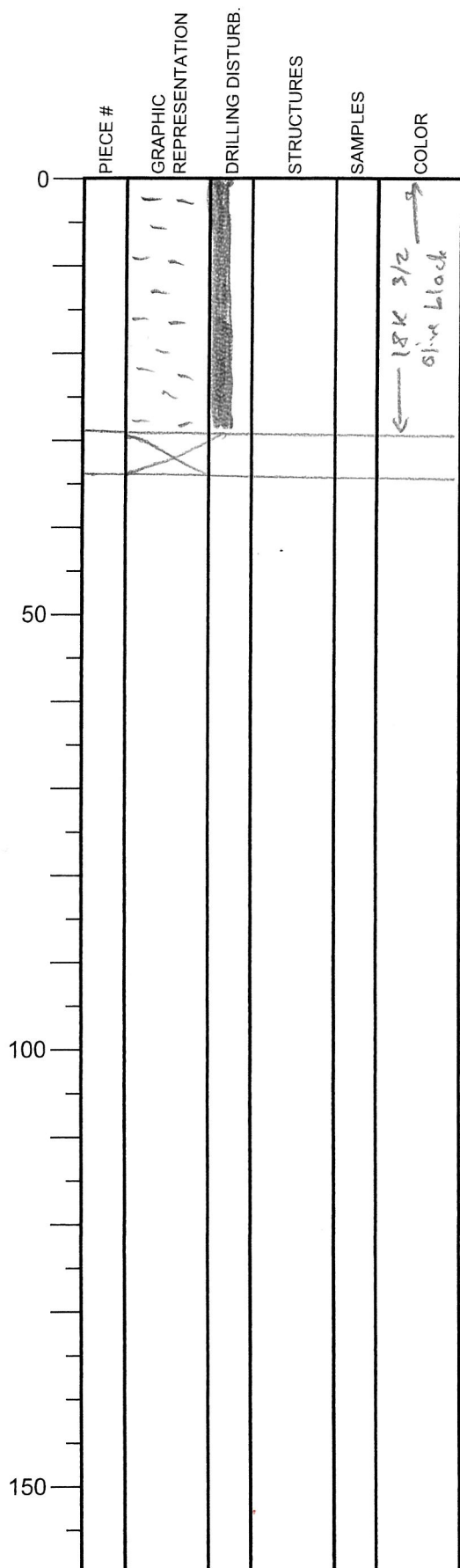
silt lamination

horizontal laminations

International Ocean Discovery Program

Visual Core Description

NO. 7
 DATE: 14/10/2025
 EXP.: 405
 SITE/HOLE: C0019 J
 CORE: 18K
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Alden Nicholson

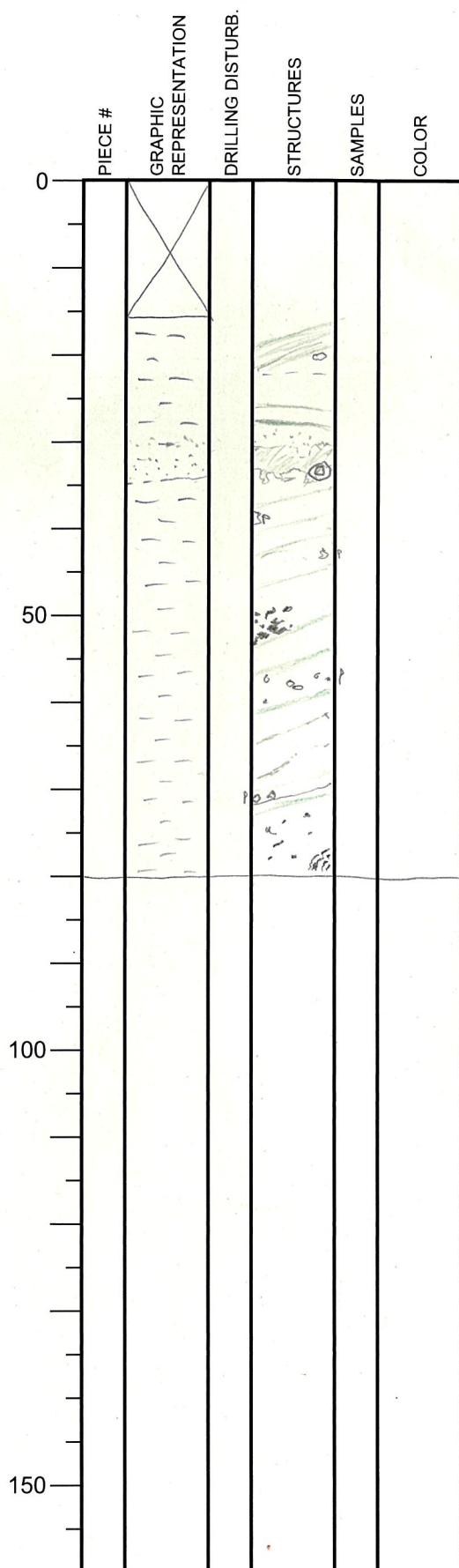
Olive black siliceous mud
 heavily disturbed by drilling.

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 17/6/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 19
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: Uisdean Nicholson



SECTION DESCRIPTION

Disturbance, including aphronospha burrows. Black silt/sand in burrows

disseminated black sediment on one side - small burrows

more concentrated pumice clasts

-pumice, one pyritized?

disseminated black sediment, small burrows?

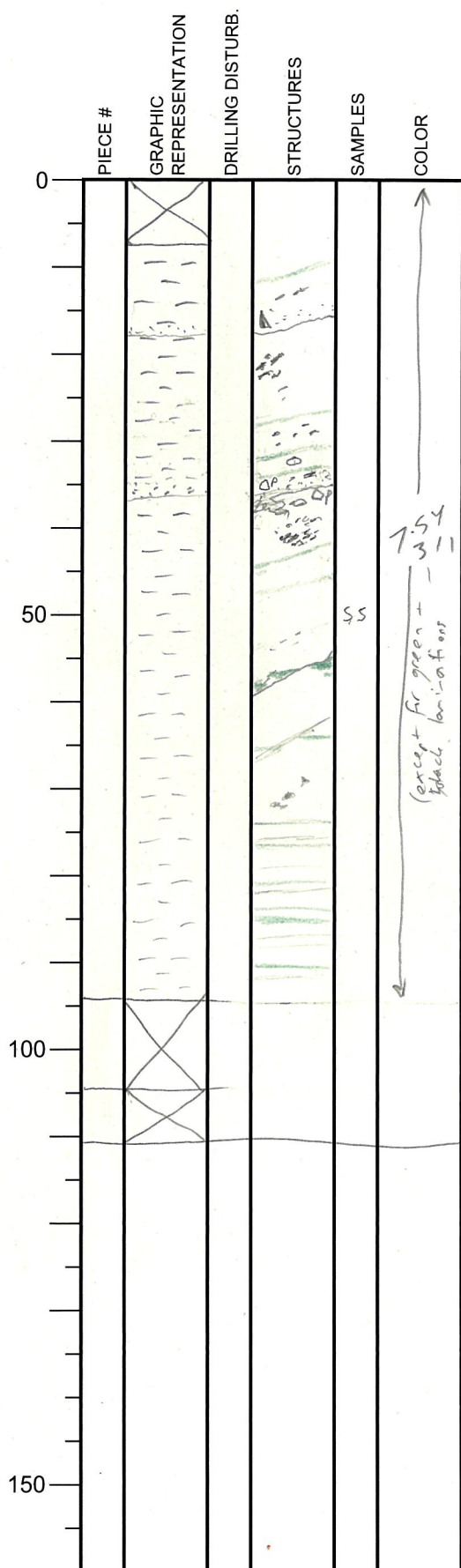
BASE SECTION @ 80 cm

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 11/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 19
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: Kirsten Nicholson



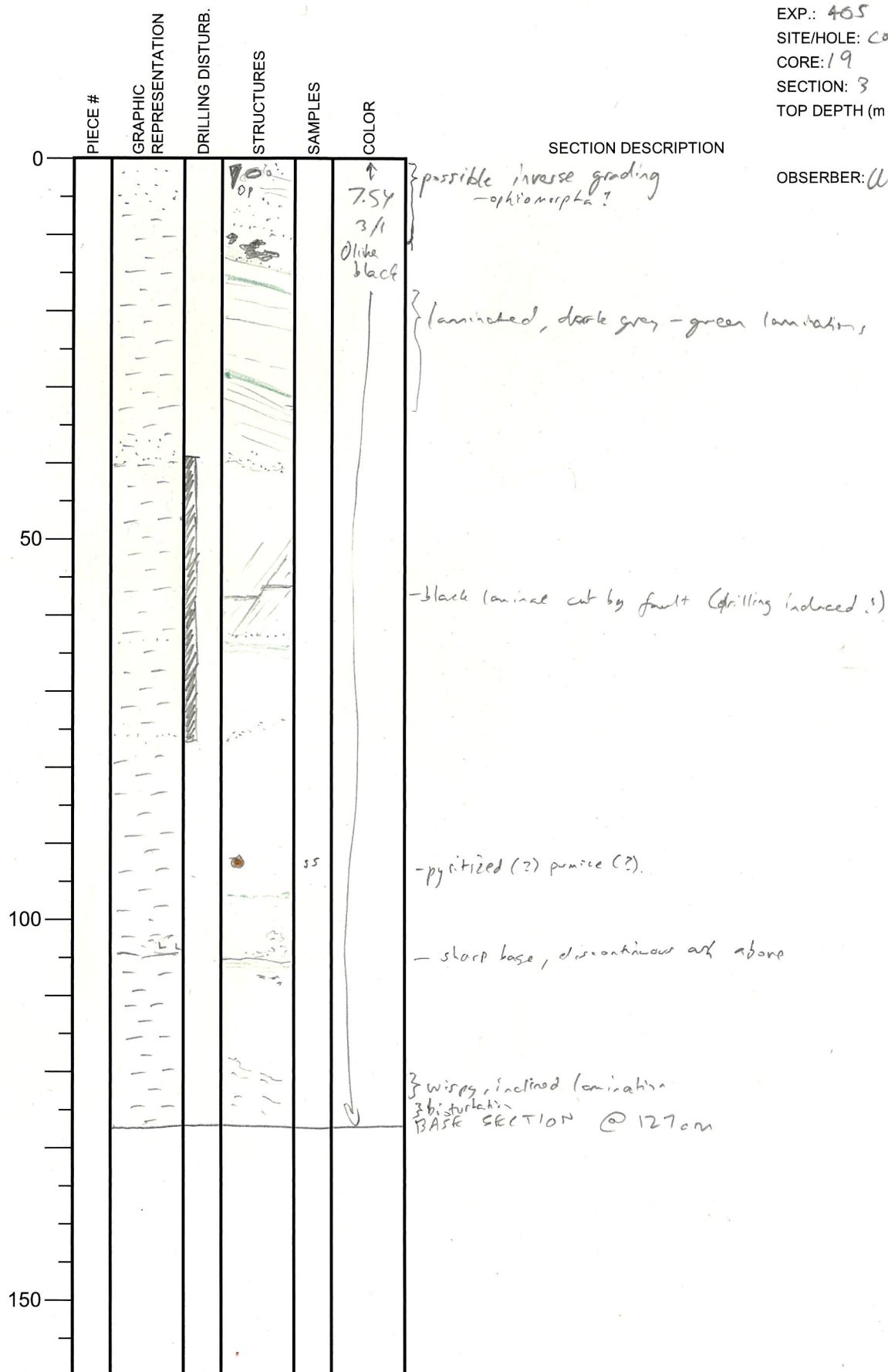
SECTION DESCRIPTION

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: CO2195
 CORE: 19
 SECTION: 3
 TOP DEPTH (m CSF):

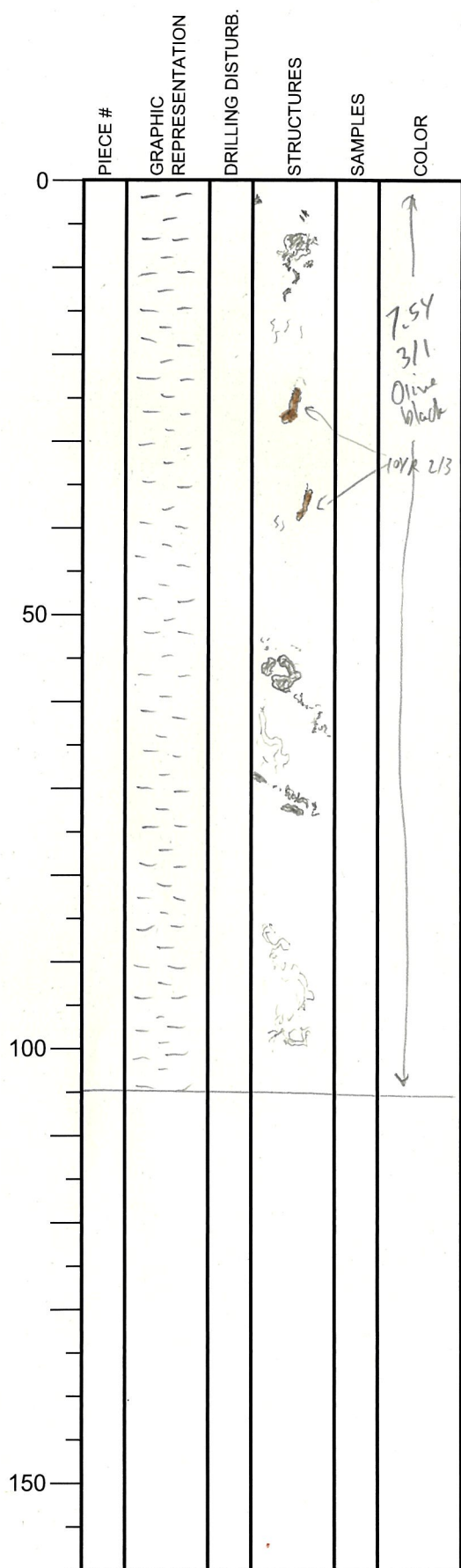
OBSERVER: Wisdean Nicholson



International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C8019J
 CORE: 19
 SECTION: 4
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *Wendy Nelson*

Black silt lined burrow
 { bioturbation
 - pyritized (?) burrow fill? - Bronze fill, green altered rim
 - as above - pyritized (?) burrow fill.

Black silt in bilbois burrow
 - more subtle burrow beneath
 - contorted laminations (or bioturbation??)

contorted laminations and/or bioturbation

BASE SECTION 109.5m

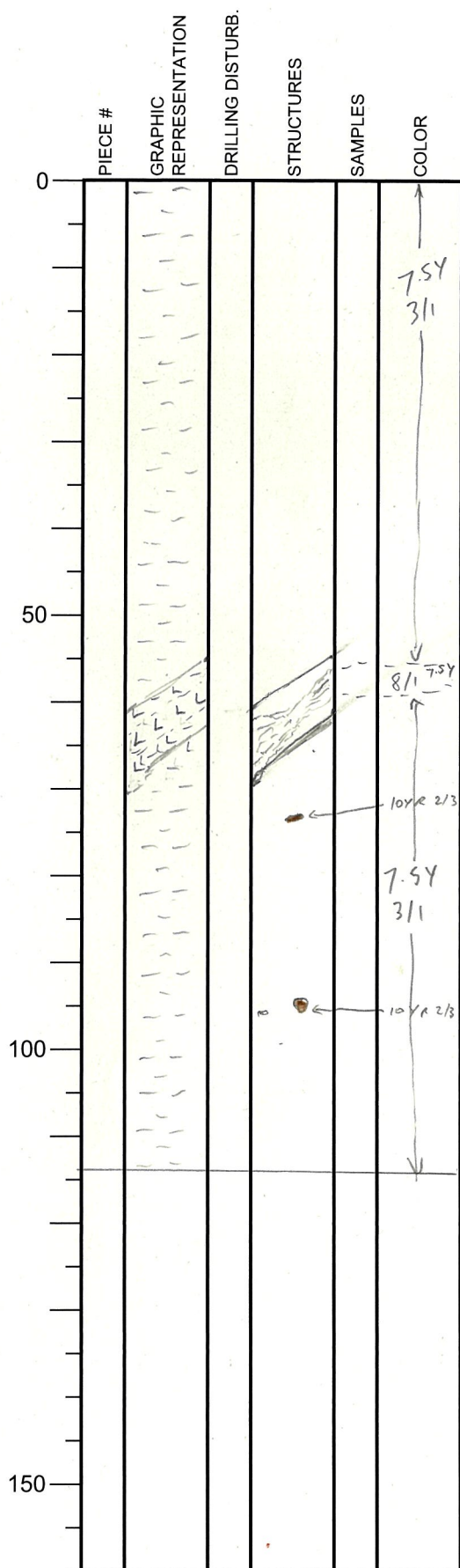
International Ocean Discovery Program

Visual Core Description

NO. 5
 DATE: 14/10/20 24
 EXP.: 905
 SITE/HOLE: C00195
 CORE: 19
 SECTION: 5
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

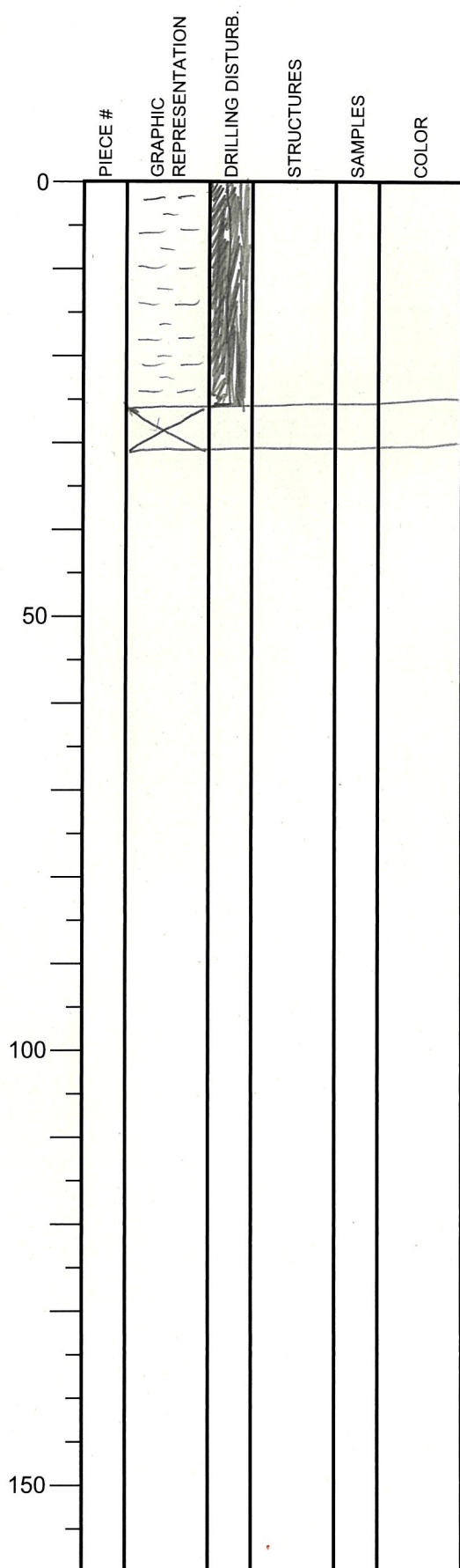
OBSERVER: Mirdean Nicholson



International Ocean Discovery Program

Visual Core Description

NO. 6
 DATE: 11/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 19
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

almost fully brecciated
 olive black mudstone

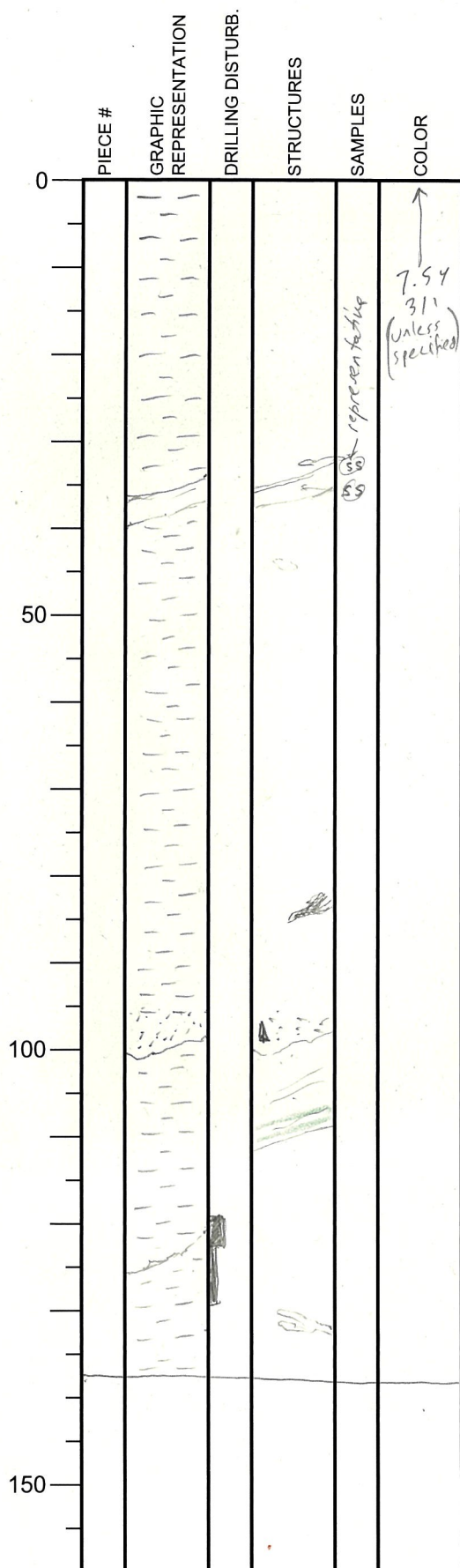
OBSERVER: *Wadean Nicholson*

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 17/10/2024
 EXP.: 405
 SITE/HOLE: K00195
 CORE: 20K
 SECTION: 1
 TOP DEPTH (m CSF):

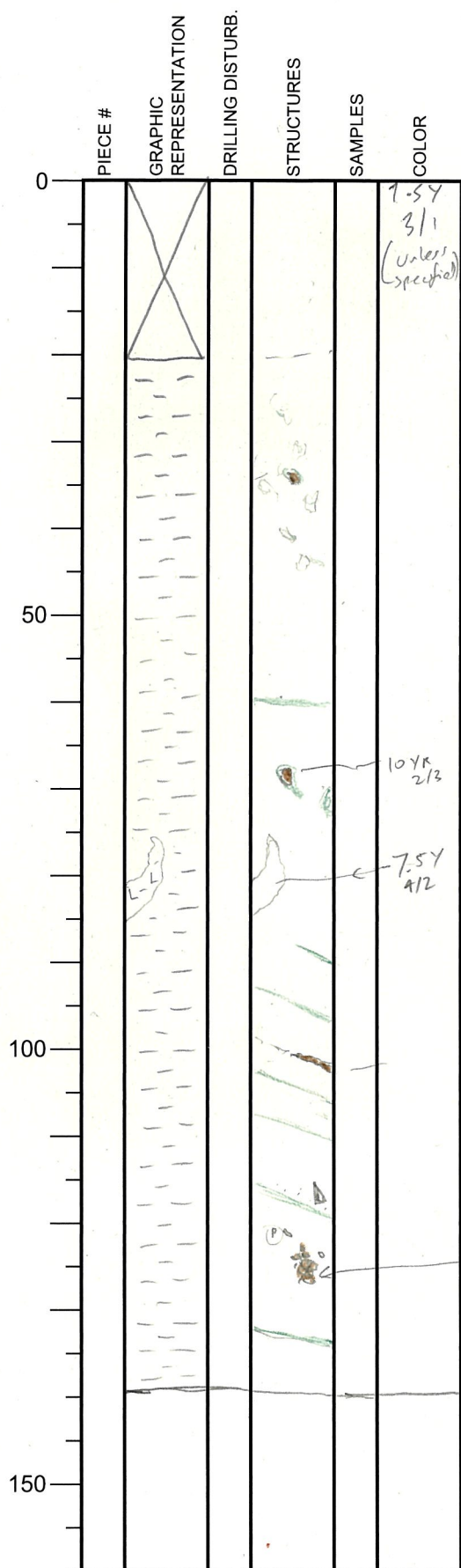
OBSERVER: *Disdean Nicholson*



International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 19/10/2024
EXP.: 405
SITE/HOLE: C0019 J
CORE: 20 K
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER: Aileen Nicholson



SECTION DESCRIPTION

International Ocean Discovery Program

Visual Core Description

NO. 3

DATE: 14/10/2024

EXP.: 405

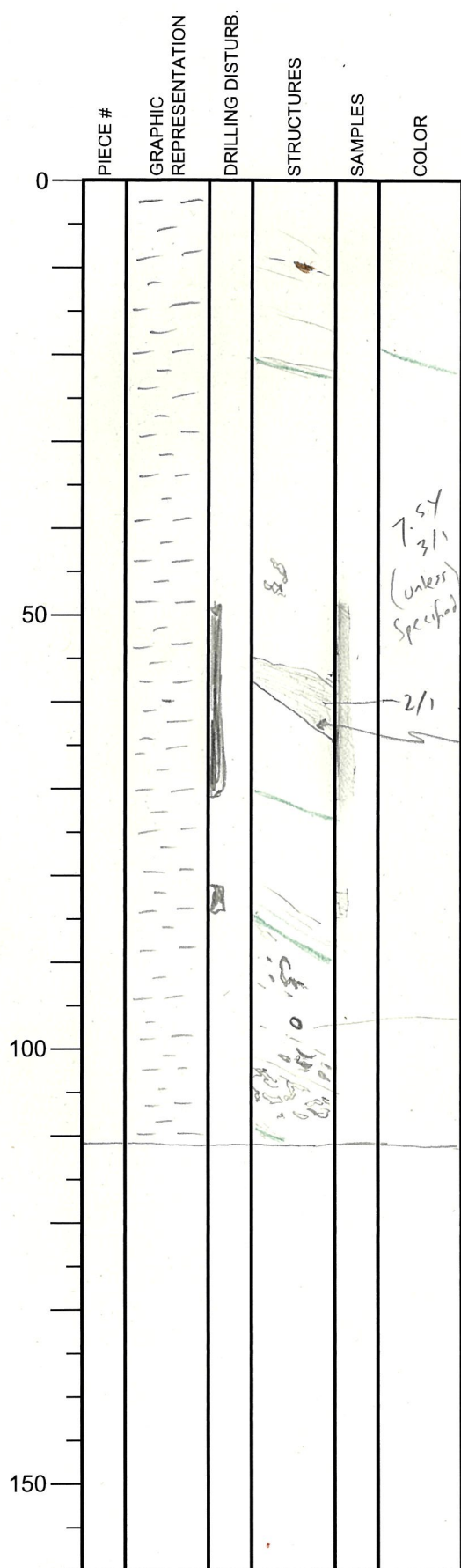
SITE/HOLE: C00195

CORE: 20K

SECTION: 3

TOP DEPTH (m CSF):

OBSERVER: *Alisdair Nicholson*



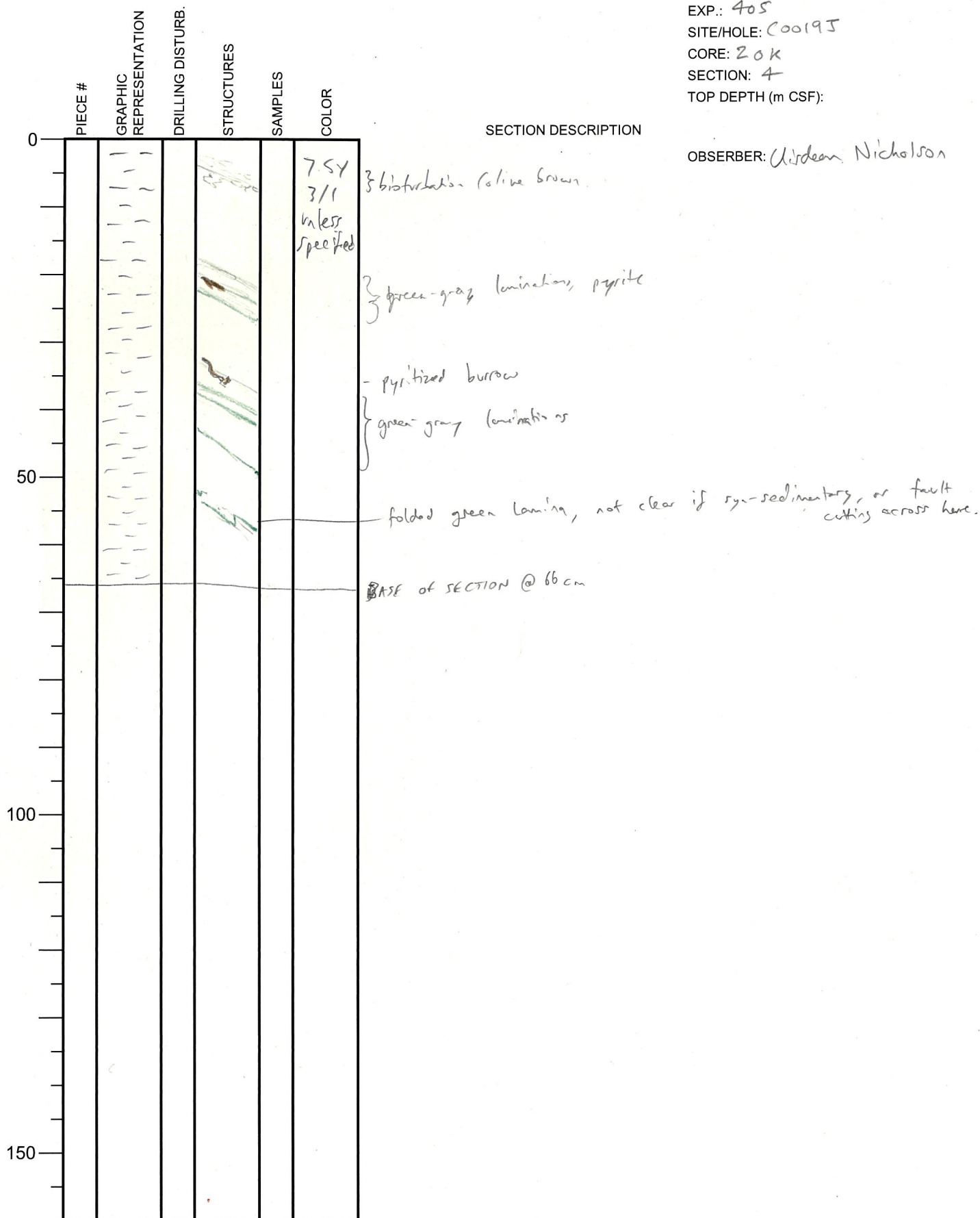
SECTION DESCRIPTION

International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 20K
 SECTION: 4
 TOP DEPTH (m CSF):

OBSERVER: Uirdean Nicholson

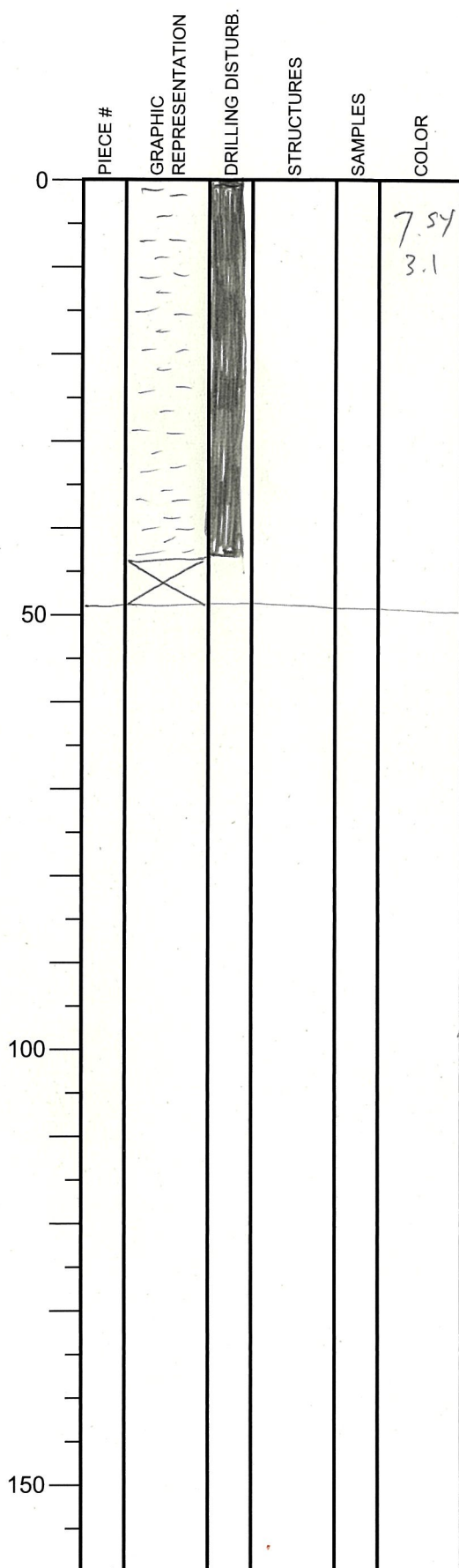


International Ocean Discovery Program Visual Core Description

NO. 5
DATE: 14/10/2024
EXP.: ~~C00195~~ 405
SITE/HOLE: ~~20K~~ C00195
CORE: 20K
SECTION: CC
TOP DEPTH (m CSF):

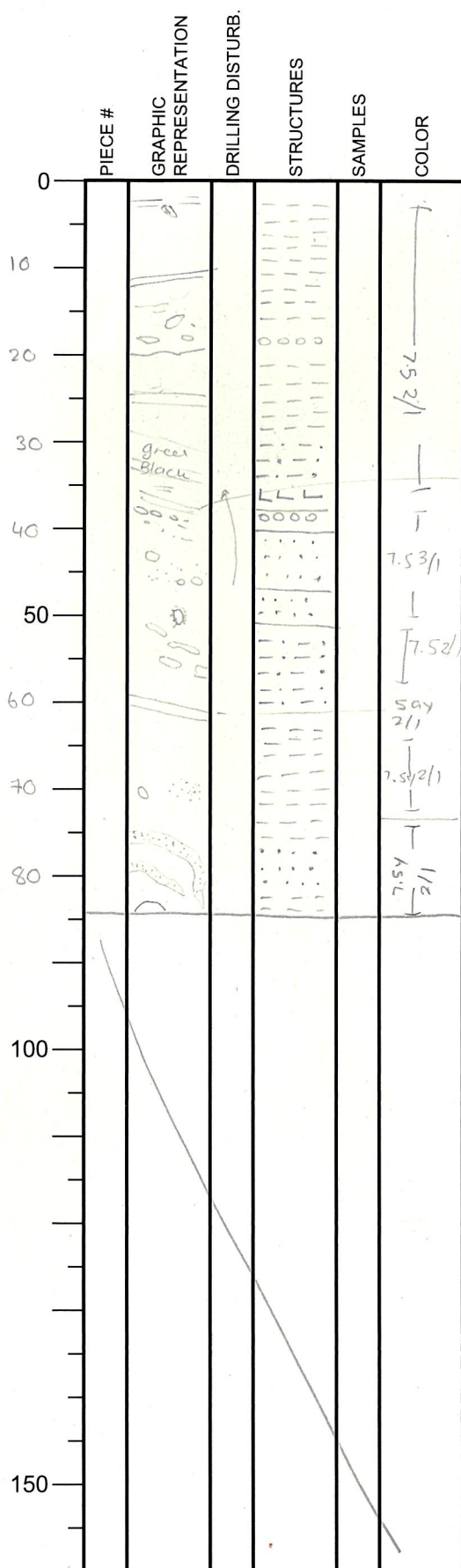
SECTION DESCRIPTION

OBSERVER: Disleau Nicholson



International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 15/10/20 24
EXP.: 405
SITE/HOLE: C0019J
CORE: 21K
SECTION: 1
TOP DEPTH (m CSF): \



SECTION DESCRIPTION

OBSERVER: Amy G

continuous wispy black

burrows + wispy black sections

green alteration (S GY 2/1)

alteration seams

→ more dark green seams

fining upwards sequence from puraceous clasts

through wispy black seams

fine to ms

ophiomorpha burrow

black + brown burrows / chaotic

dark green seam

definite coarser patches

coarser black bands warped in section

light grey pumice clast

Base of section

Silt

granulograde conglomerate

fine-mg sand

fine sand

Silt

clay

Silt

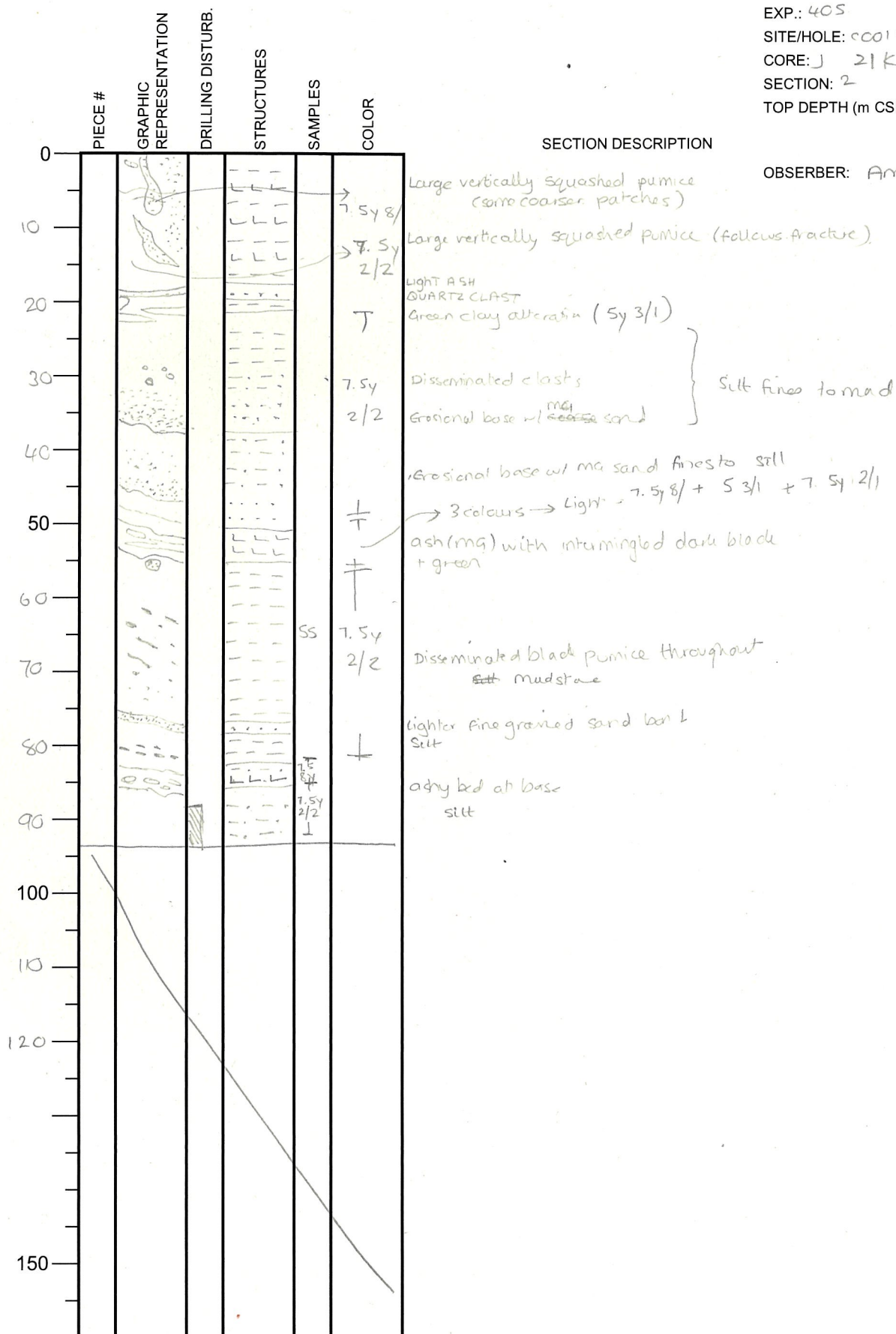
mud with bands of mg sand

mg = medium grained

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 15/10/20 24
EXP.: 405
SITE/HOLE: C0019
CORE: J 21K
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER: Amy



International Ocean Discovery Program Visual Core Description

NO. 3

DATE: 15/10/20 24

EXP.: 405

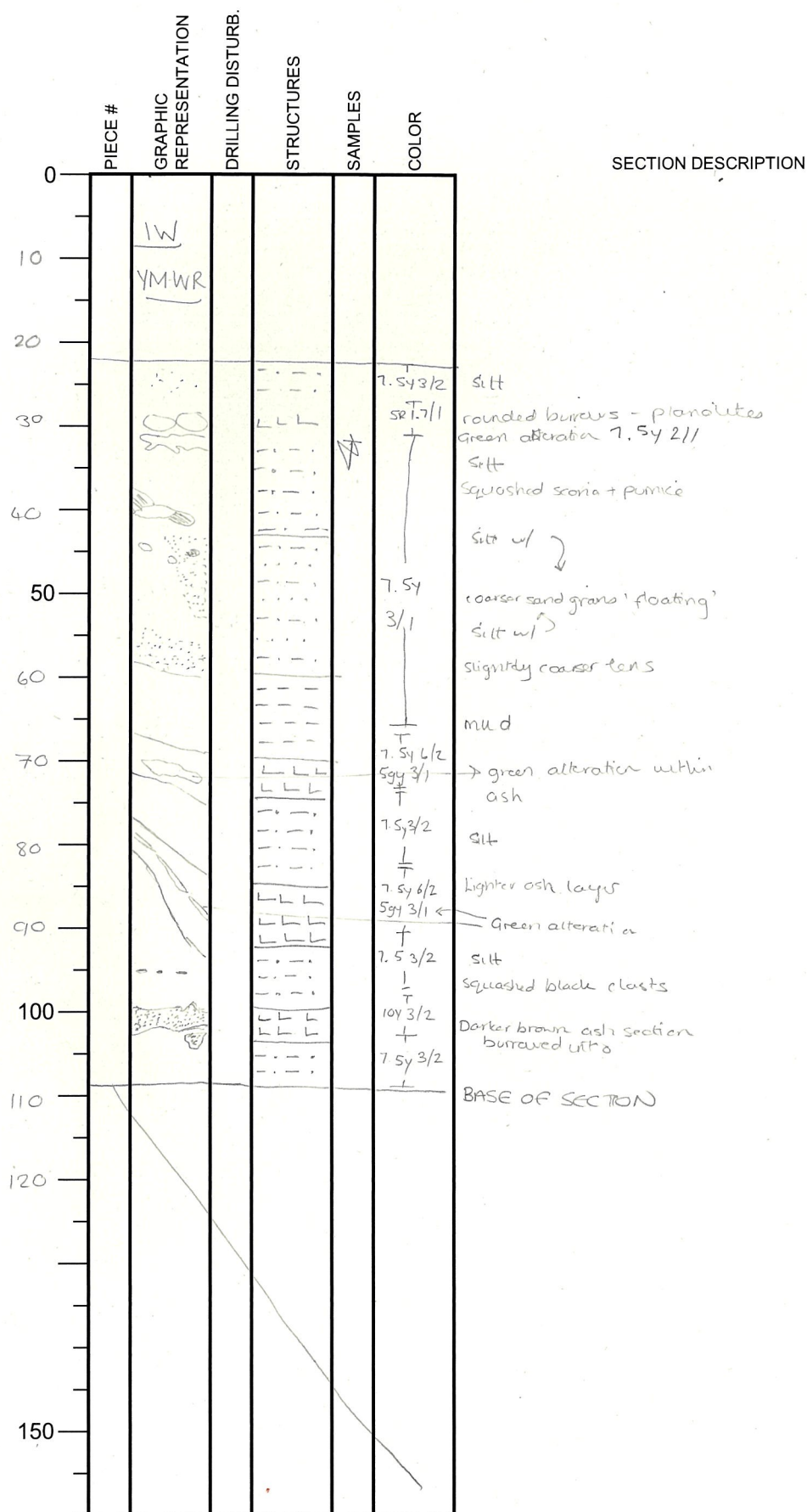
SITE/HOLE: C0019J

CORE: 21K

SECTION: 3

TOP DEPTH (m CSF):

OBSERVER: Amy Gough



International Ocean Discovery Program

Visual Core Description

NO. 4

DATE: 14/10/2024

EXP.: 405

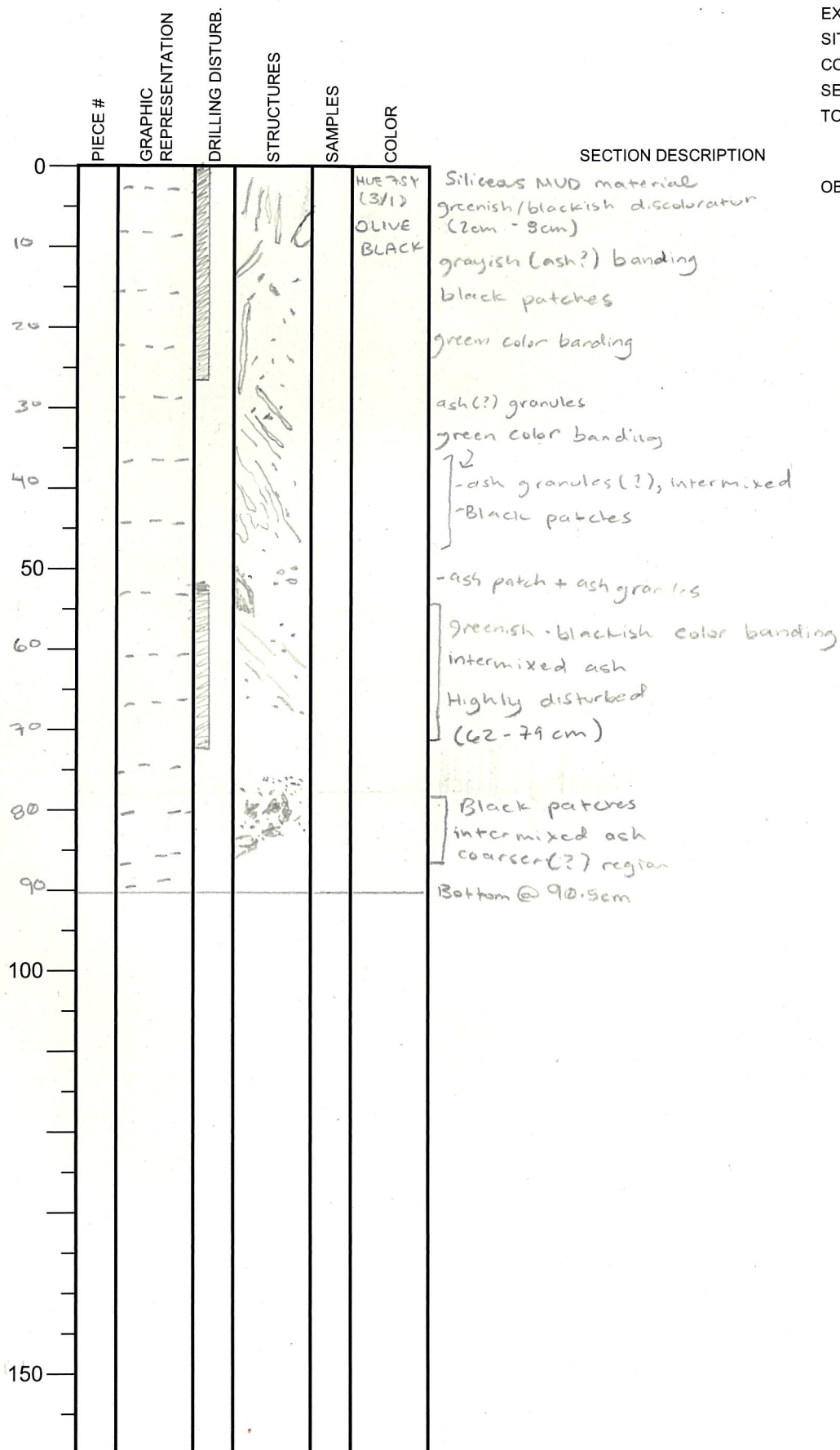
SITE/HOLE: C0019J

CORE: ~~405~~ 2/K

SECTION: 4

TOP DEPTH (m CSF):

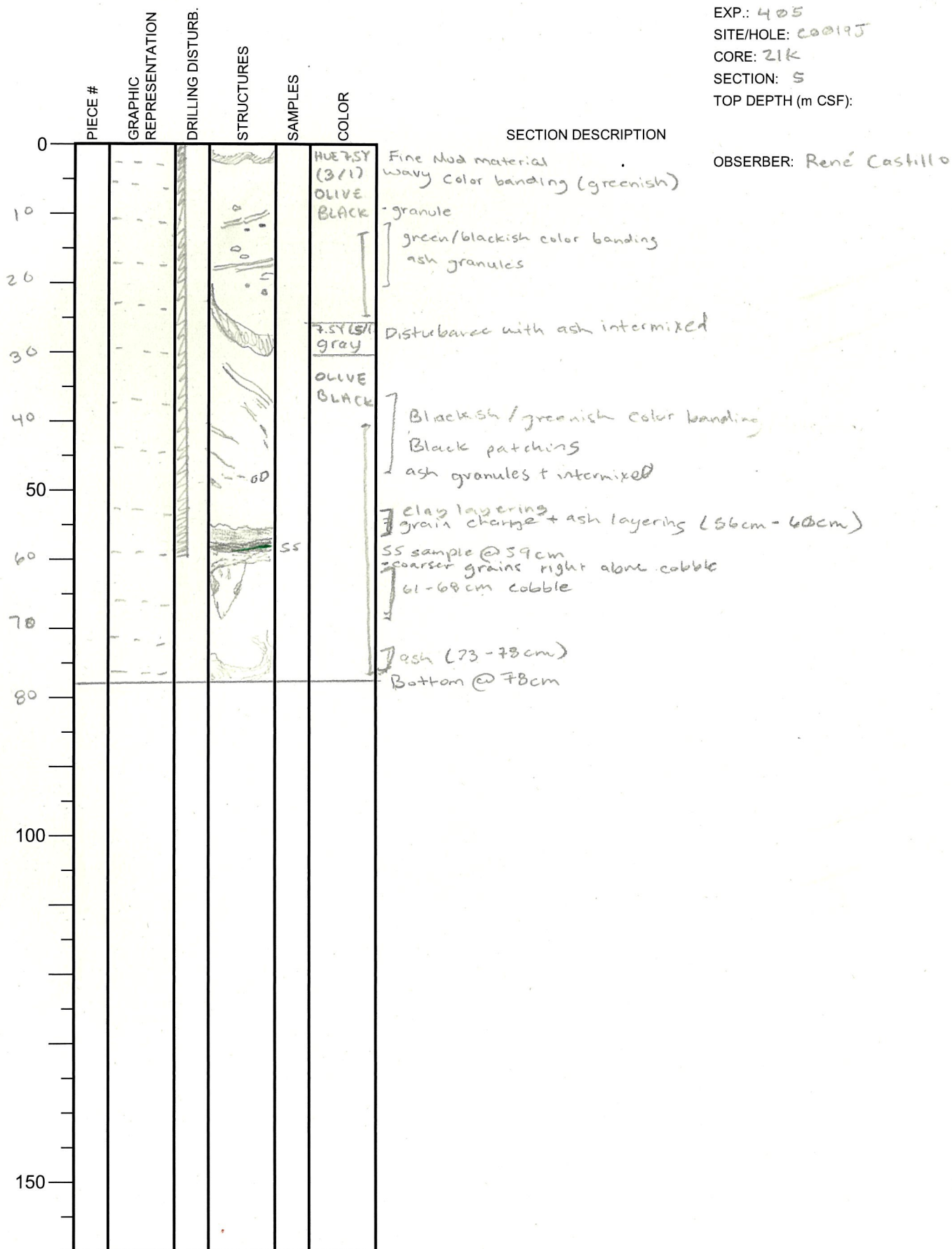
OBSERVER: René Castillo



International Ocean Discovery Program

Visual Core Description

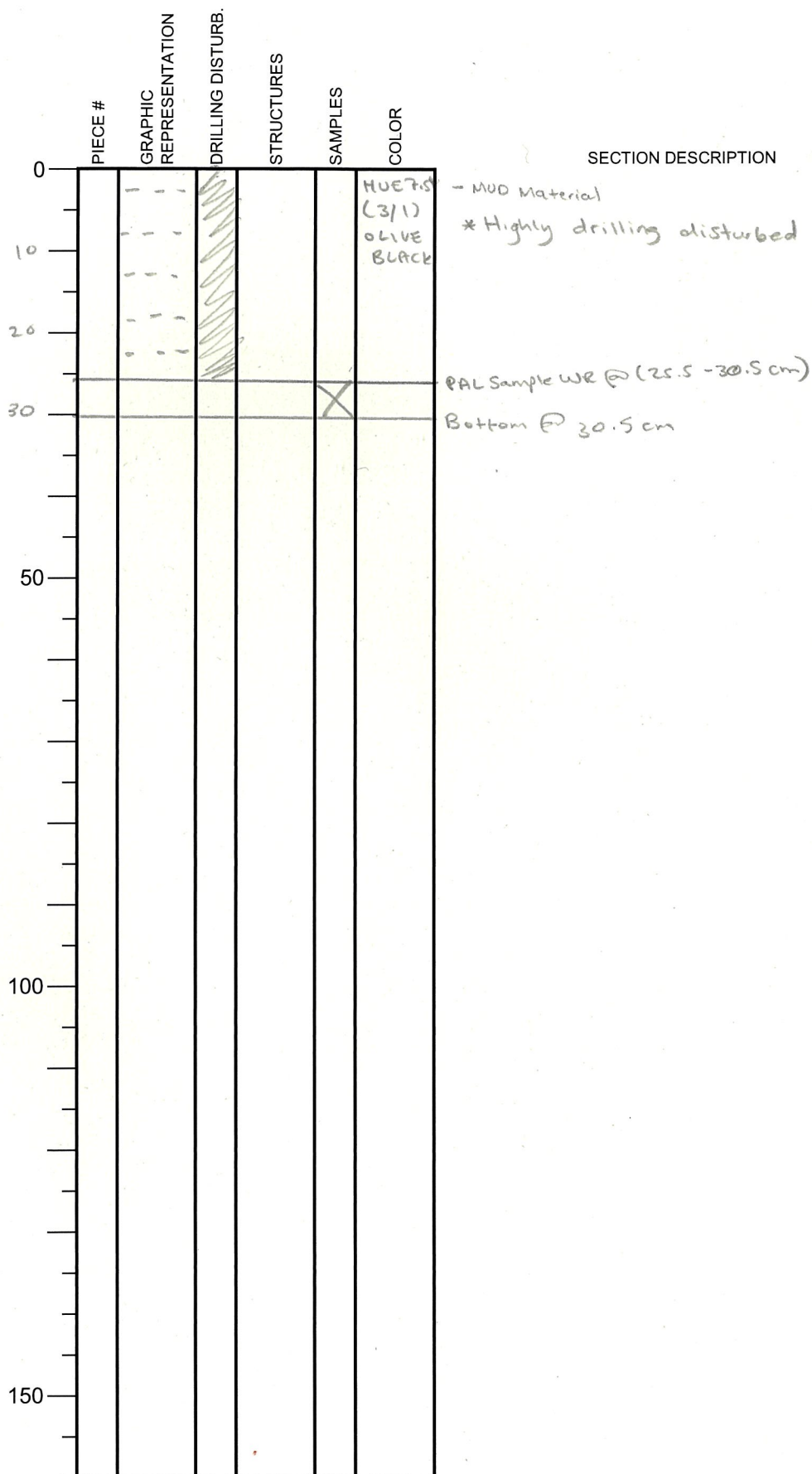
NO. 5
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: 00019J
 CORE: 21K
 SECTION: 5
 TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

NO. 6
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 21K
 SECTION: CC
 TOP DEPTH (m CSF):



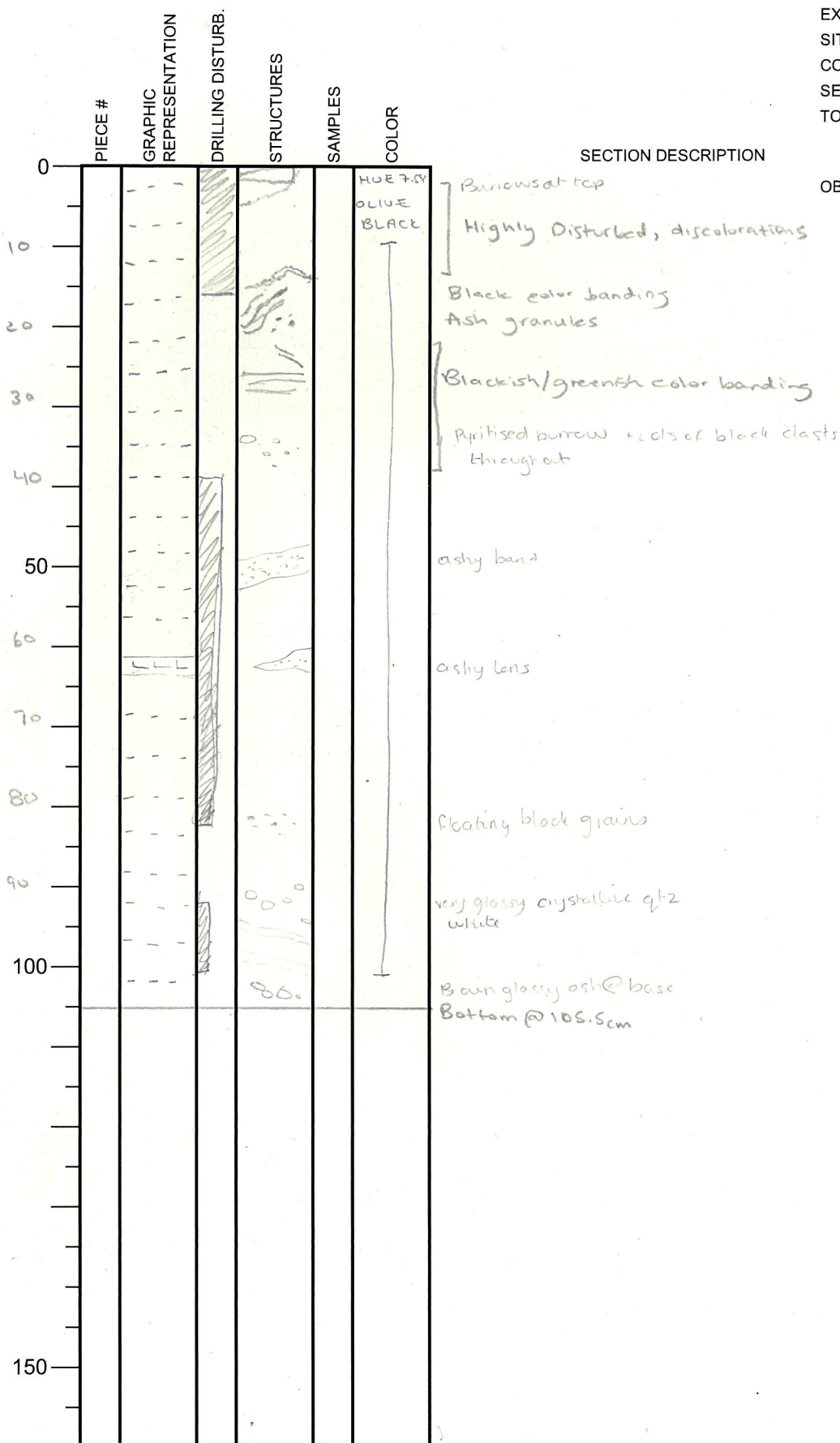
OBSERVER: Rene C.

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 22K
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: René Castillo

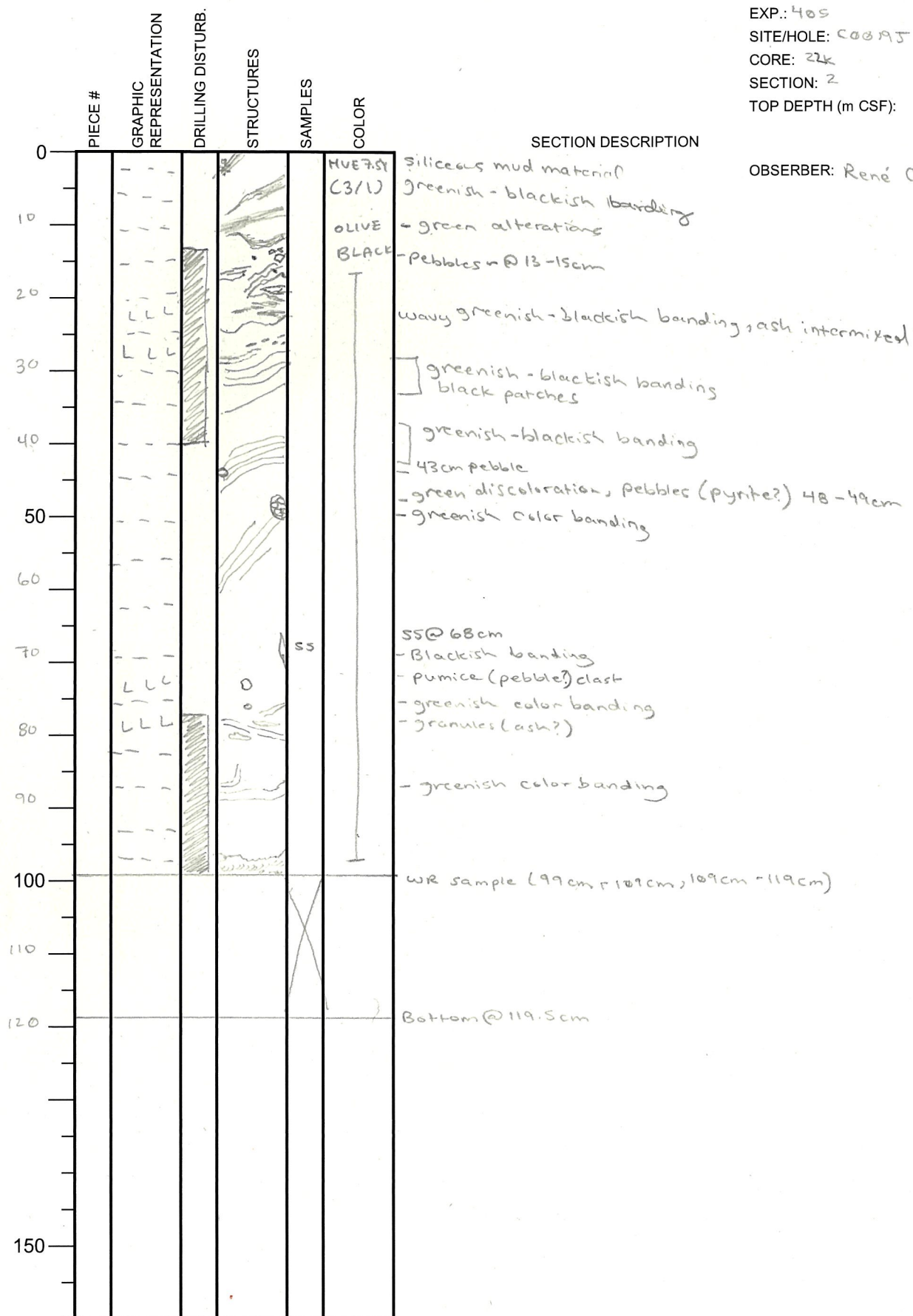


International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 22k
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: René Castillo

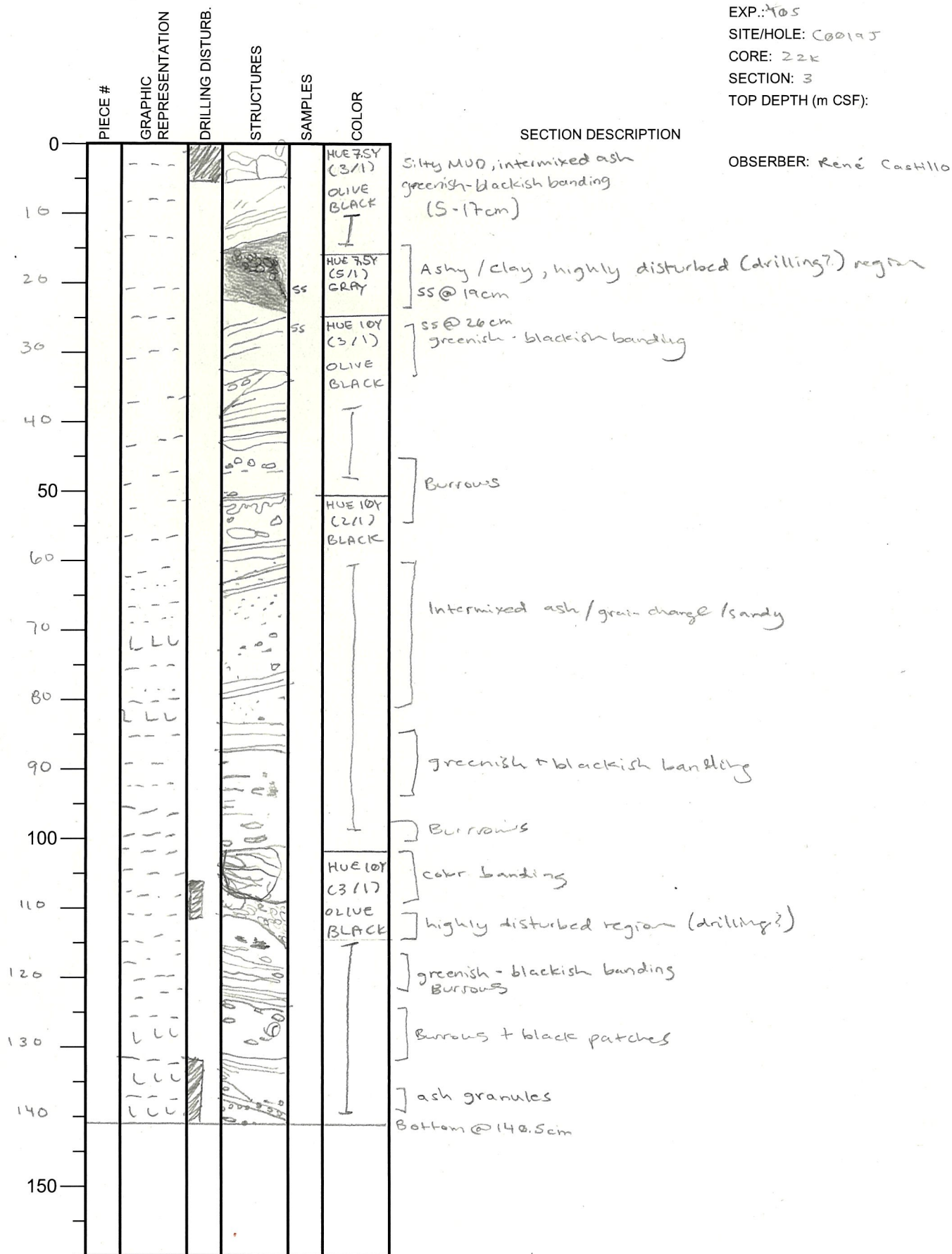


International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 22K
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER: René Castillo

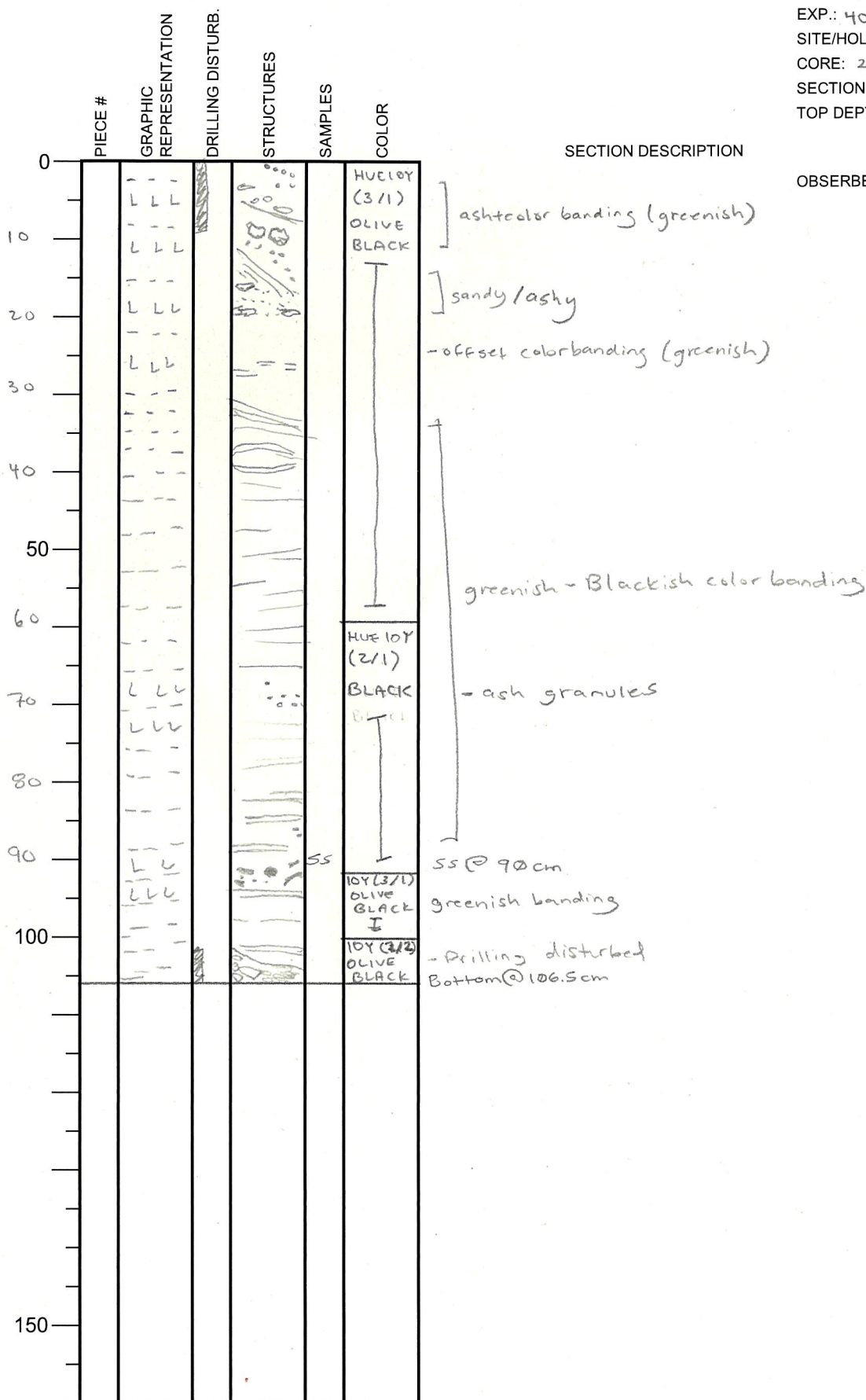


International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 22K
 SECTION: 41
 TOP DEPTH (m CSF):

OBSERVER: René Castillo

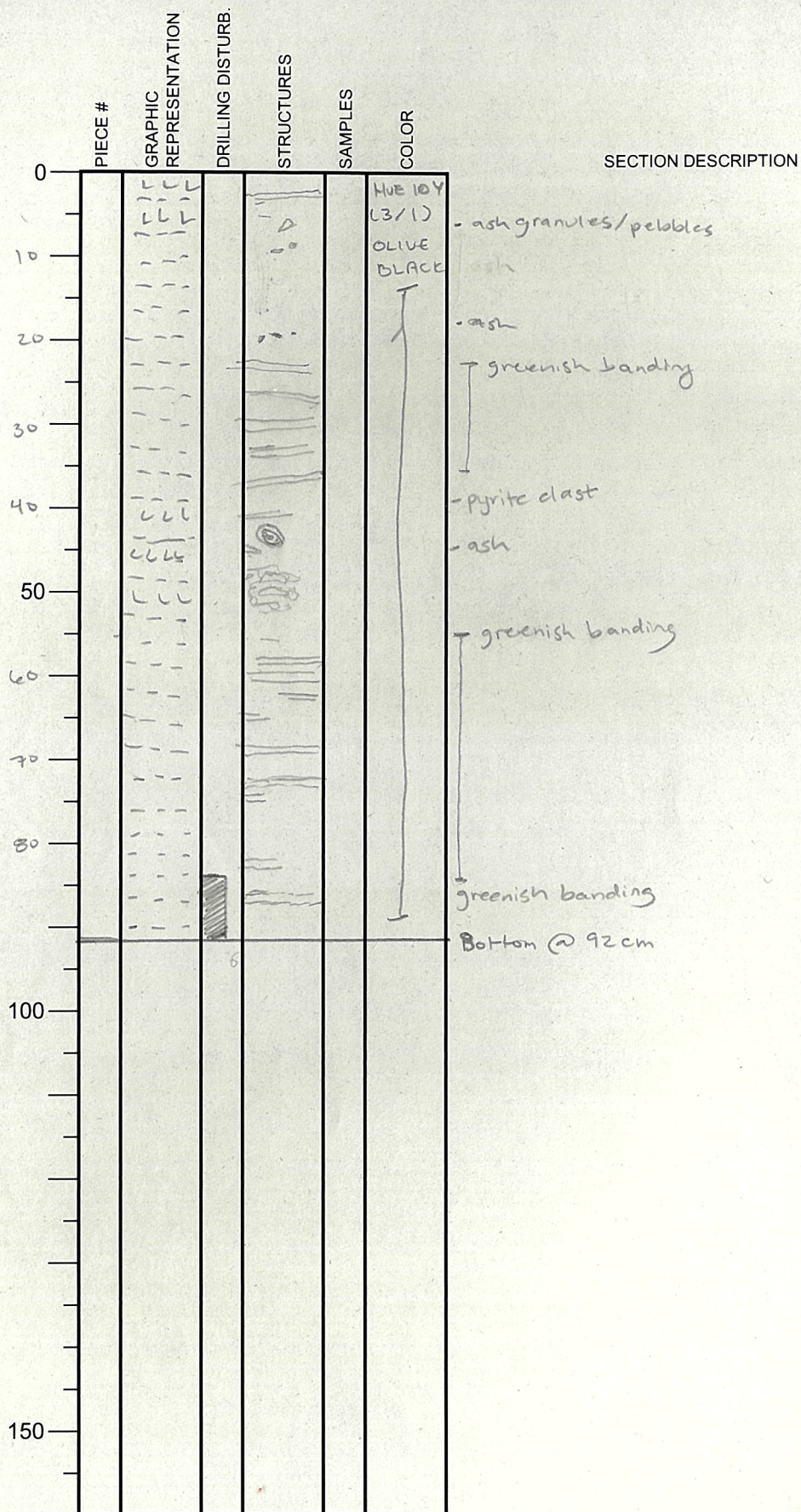


International Ocean Discovery Program

Visual Core Description

NO. 5
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 22K
 SECTION: 5
 TOP DEPTH (m CSF):

OBSERVER: René Castillo

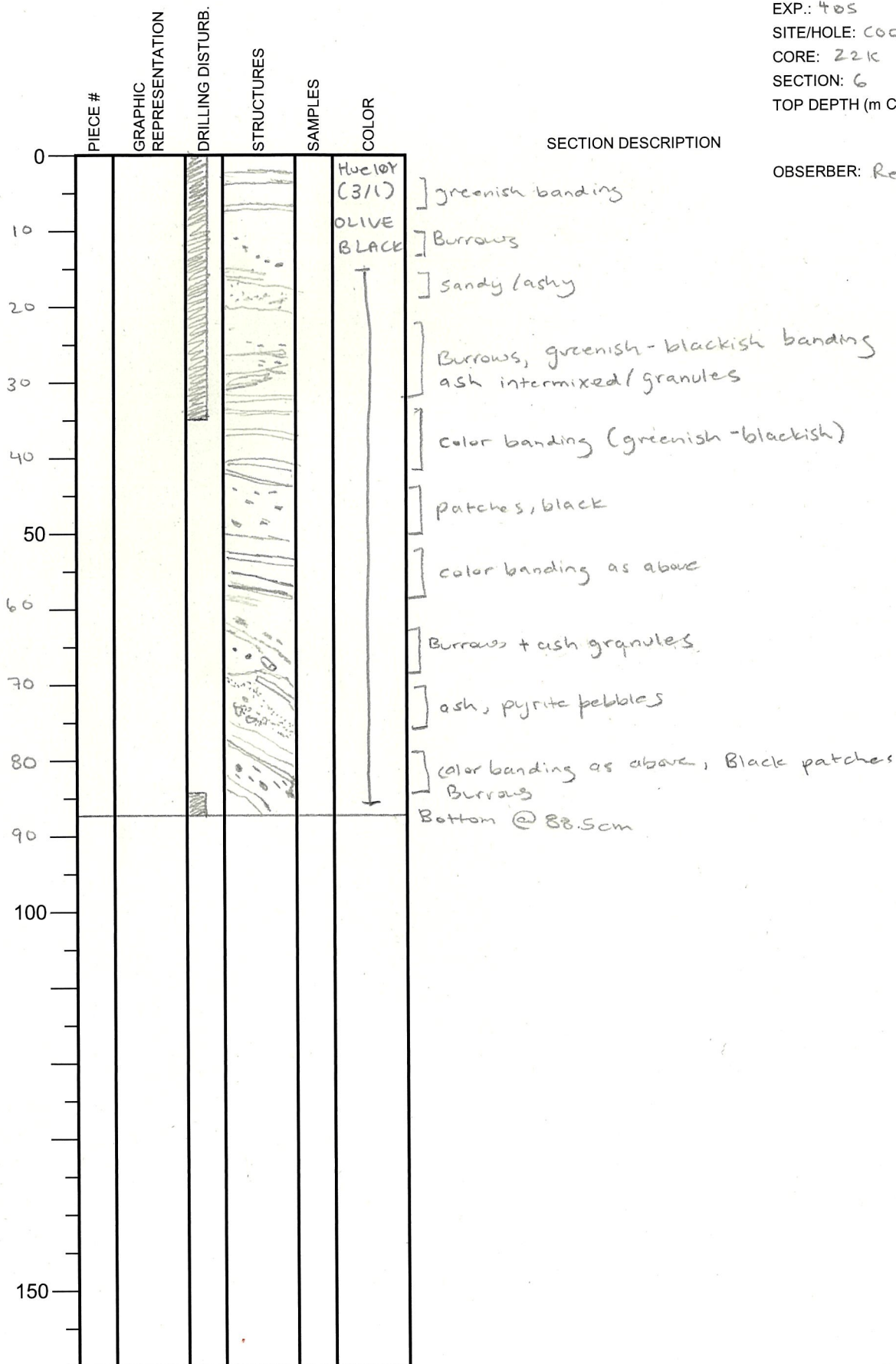


International Ocean Discovery Program

Visual Core Description

NO. 6
 DATE: 14 / 10 / 20 24
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 22K
 SECTION: 6
 TOP DEPTH (m CSF):

OBSERVER: René Castillo

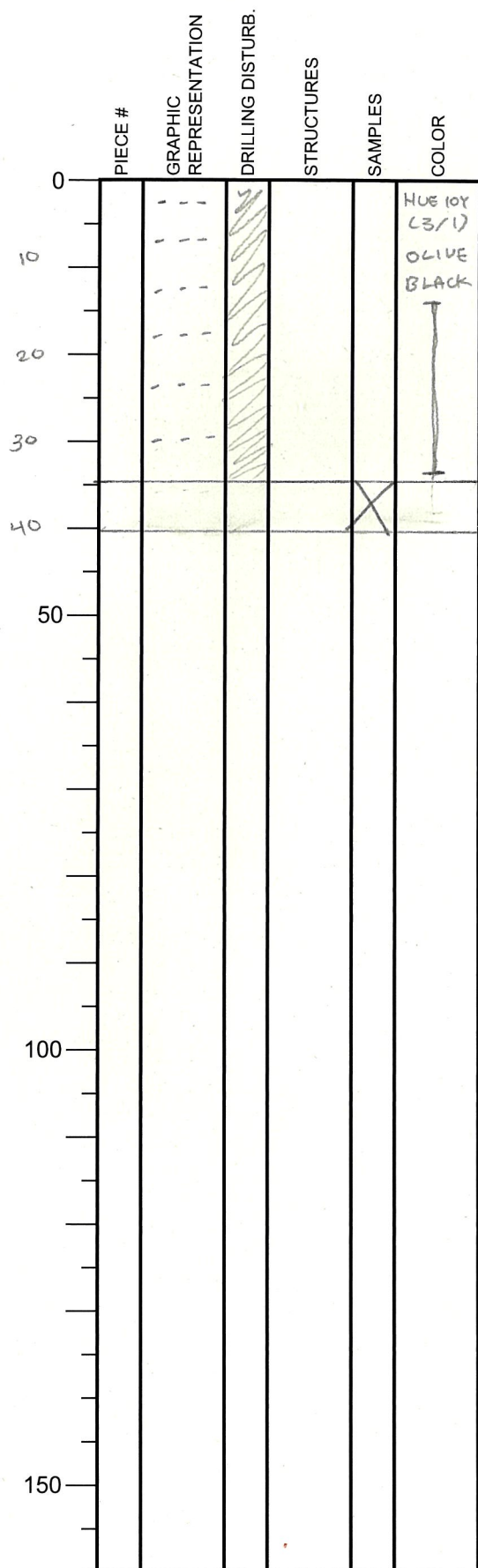


International Ocean Discovery Program

Visual Core Description

NO. 7
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 22K
 SECTION: CC
 TOP DEPTH (m CSF):

OBSERVER: René Castillo



SECTION DESCRIPTION

* Entirely Drilling Disturbed

WR @ 35.5 - 40.5 cm

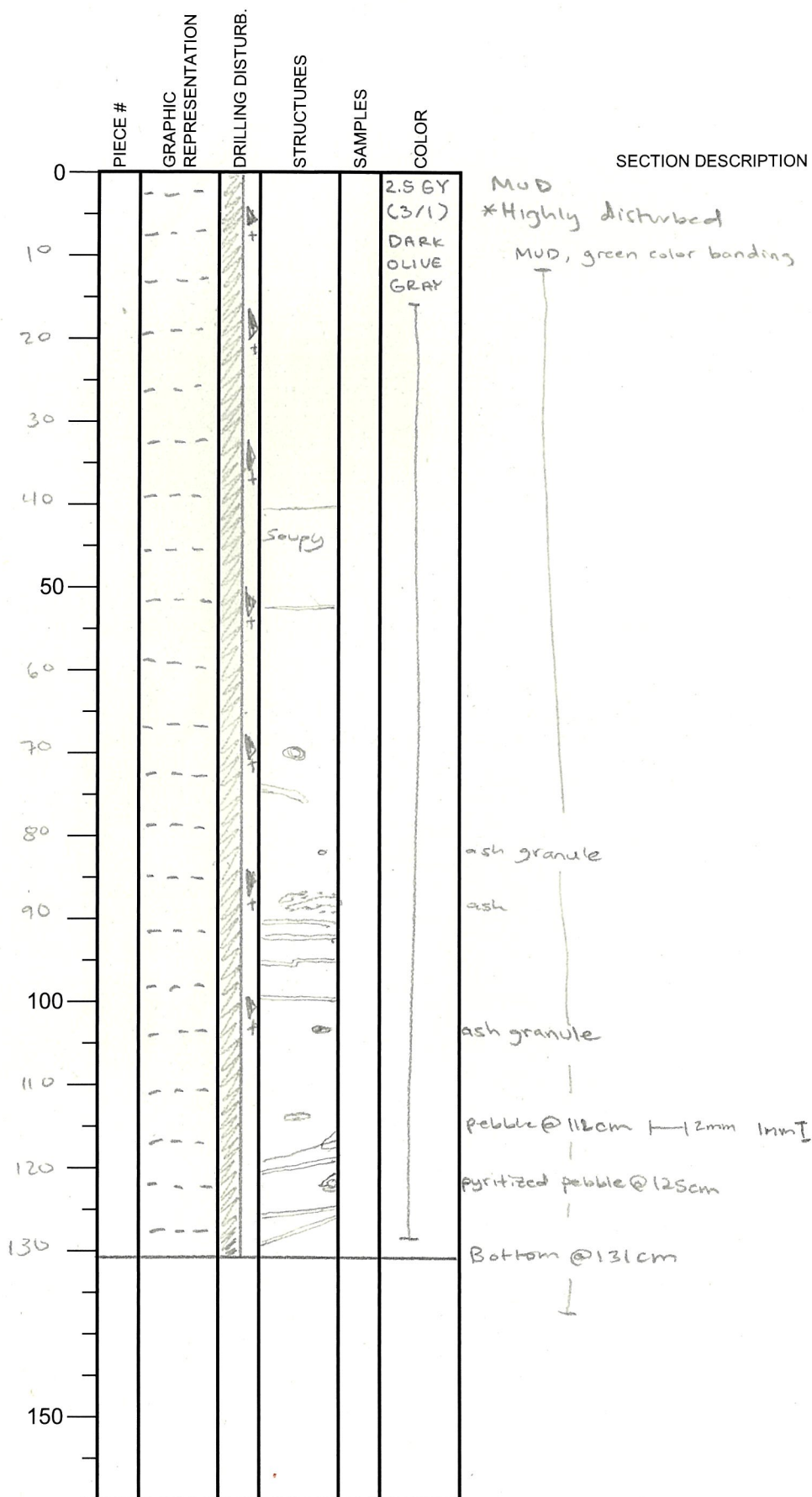
Bottom 40.5 cm

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 4/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 23K
 SECTION: 1
 TOP DEPTH (m CSF):

OBSERVER: René Castillo

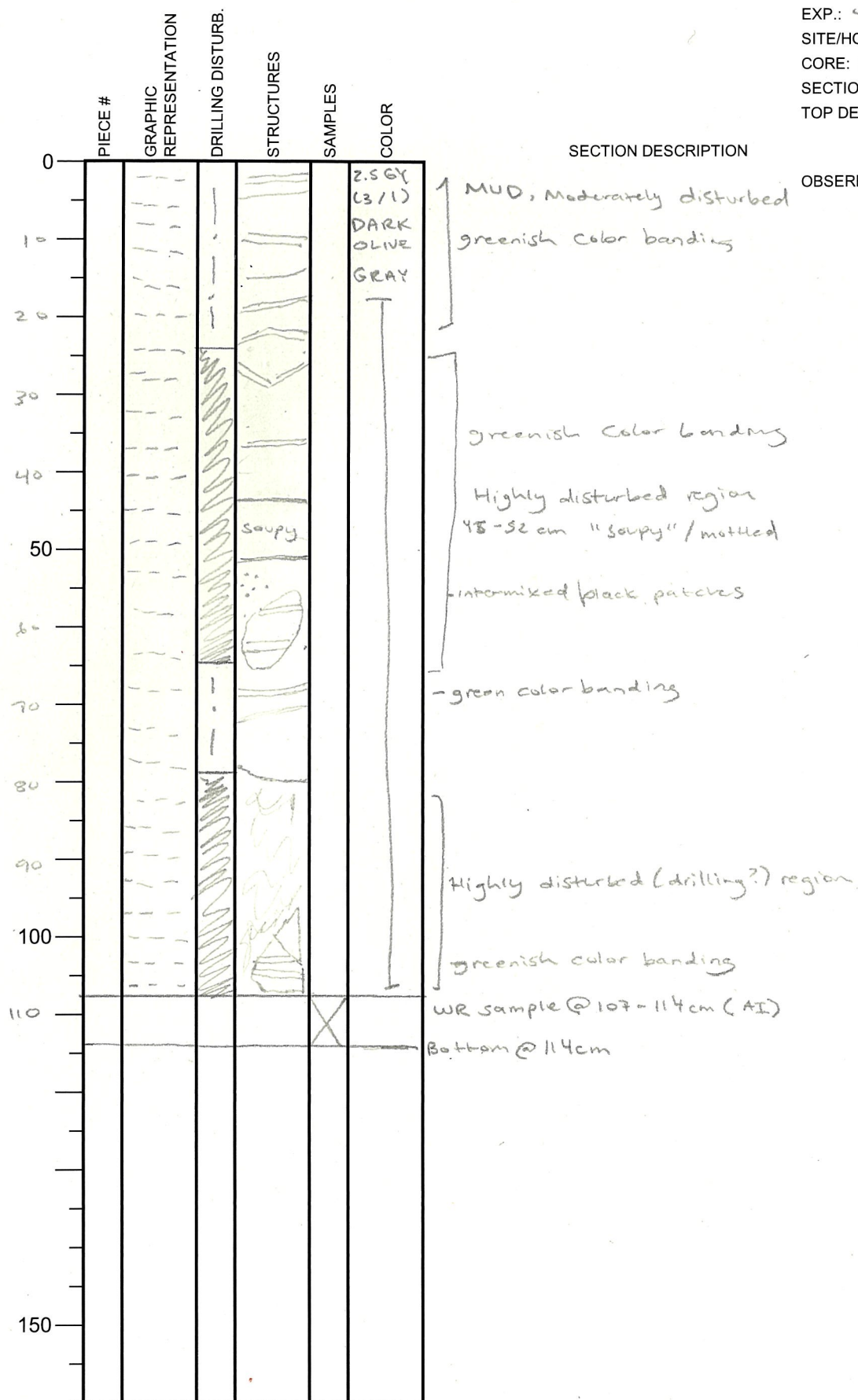


International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 14/10/20 24
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 23K
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: René Castillo

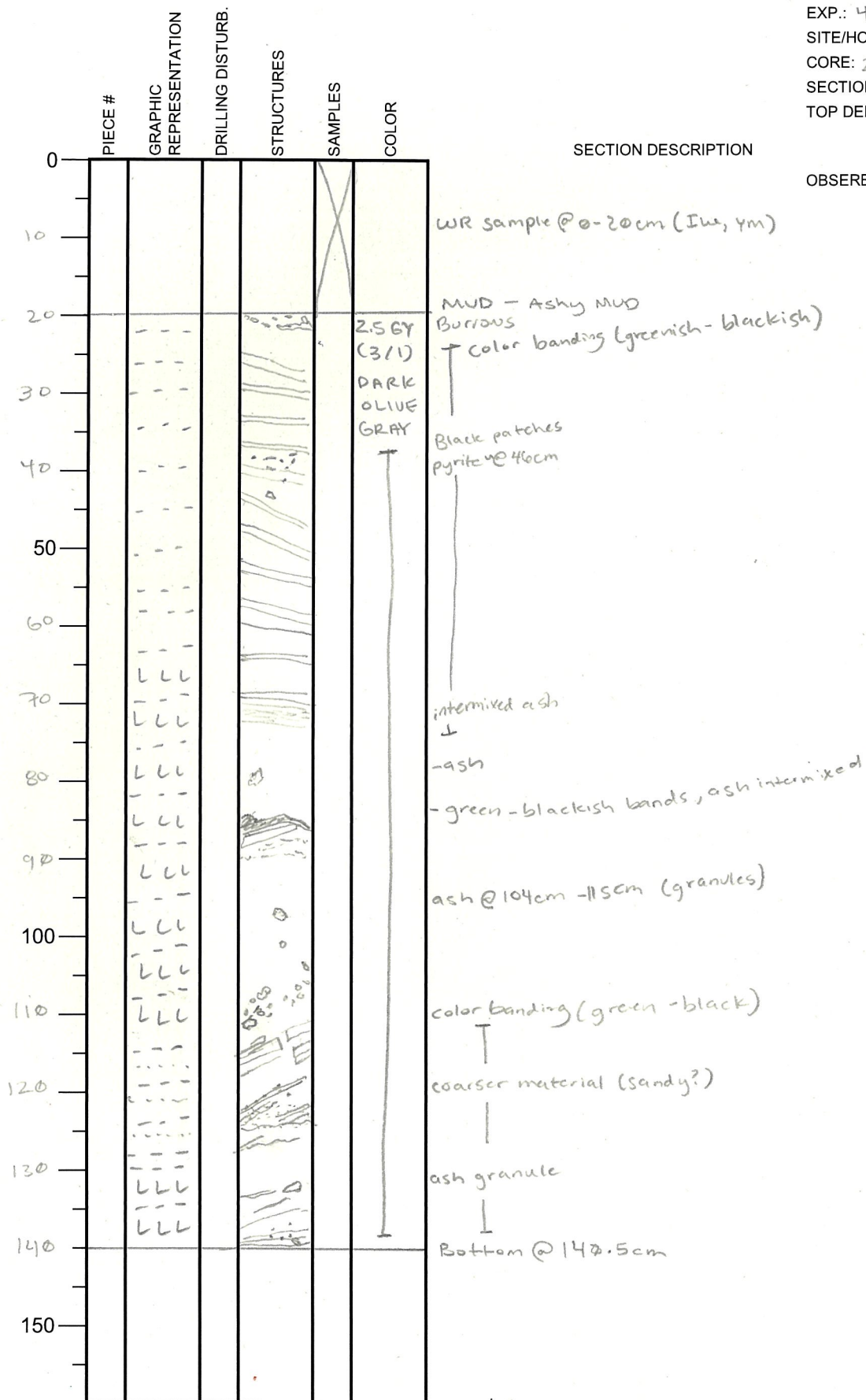


International Ocean Discovery Program

Visual Core Description

NO.3
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 23K
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER: René Castillo

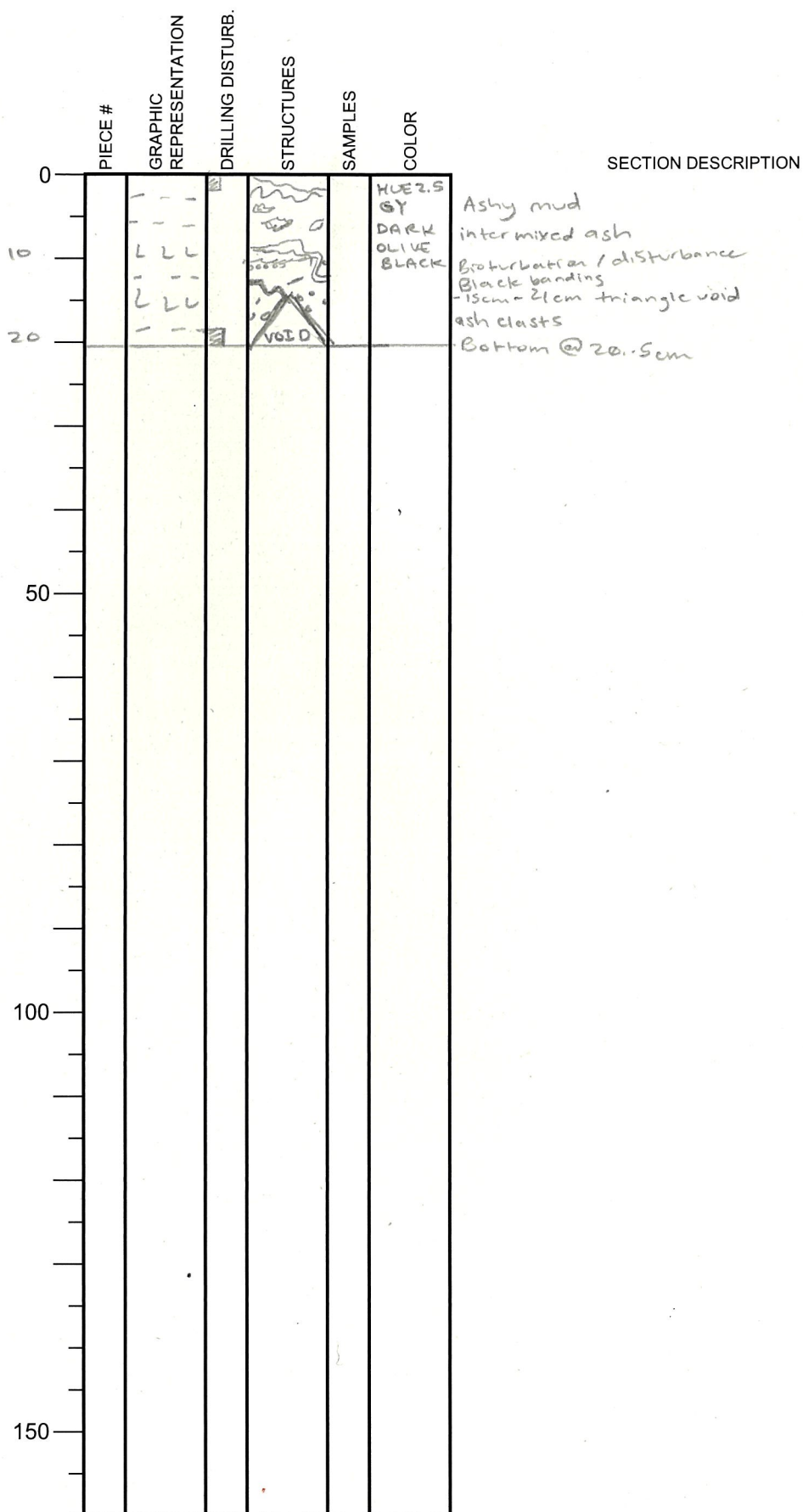


International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 14/10/20 24
 EXP. 405
 SITE/HOLE: C0019 J
 CORE: 23K
 SECTION: 4
 TOP DEPTH (m CSF):

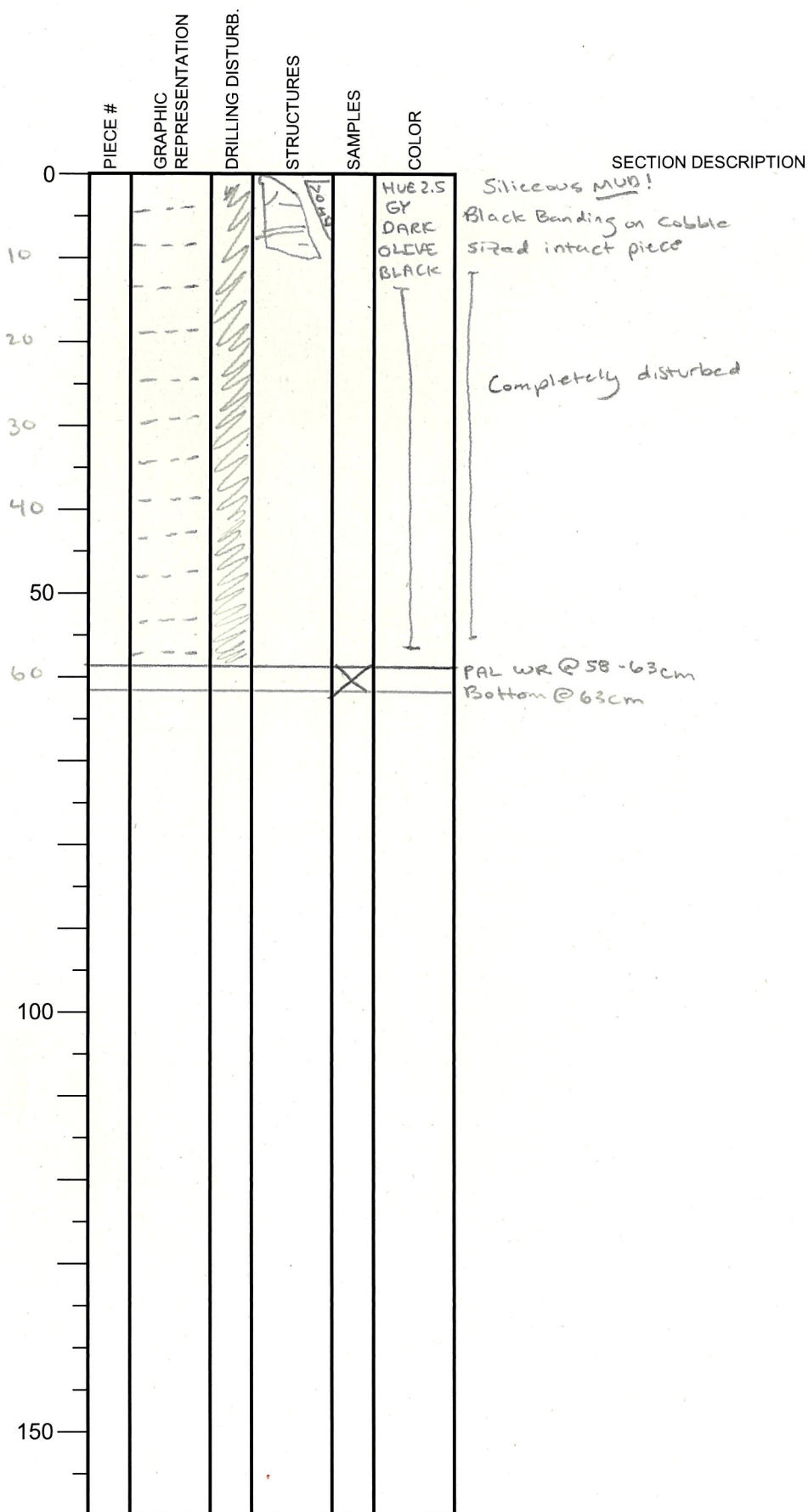
OBSERVER: René Castillo



International Ocean Discovery Program Visual Core Description

NO. 5
DATE: 14/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: Z3K
SECTION: CC
TOP DEPTH (m CSF):

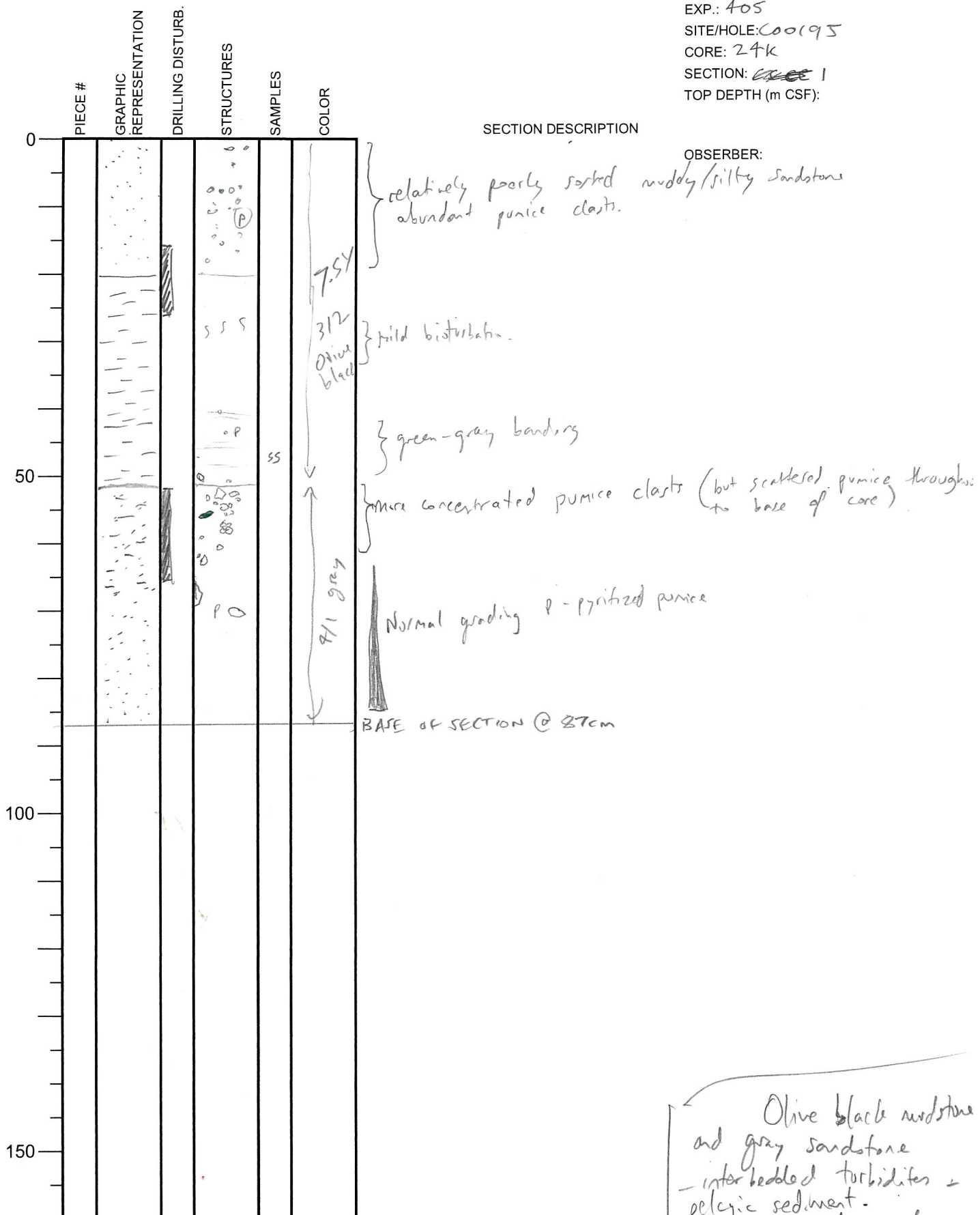
OBSERVER: René Castillo



International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 15/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 24k
 SECTION: ~~6000~~ 1
 TOP DEPTH (m CSF):



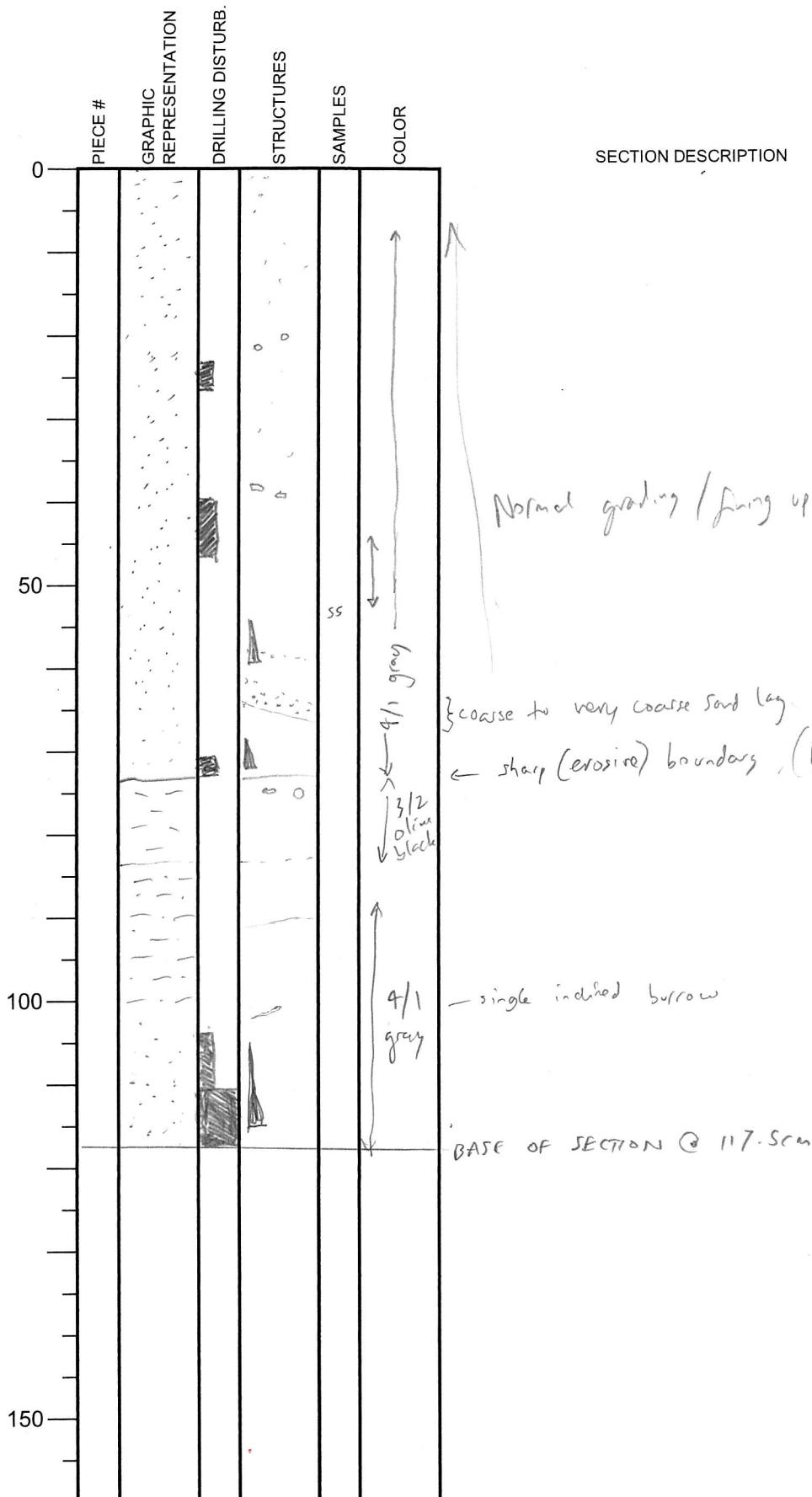
Olive black mudstone
 and gray sandstone
 - interbedded turbidites +
 pelagic sediment.
 Possible evidence of
 soft sed. deformation.

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 15/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 24K
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: *Disleen Nicholson*

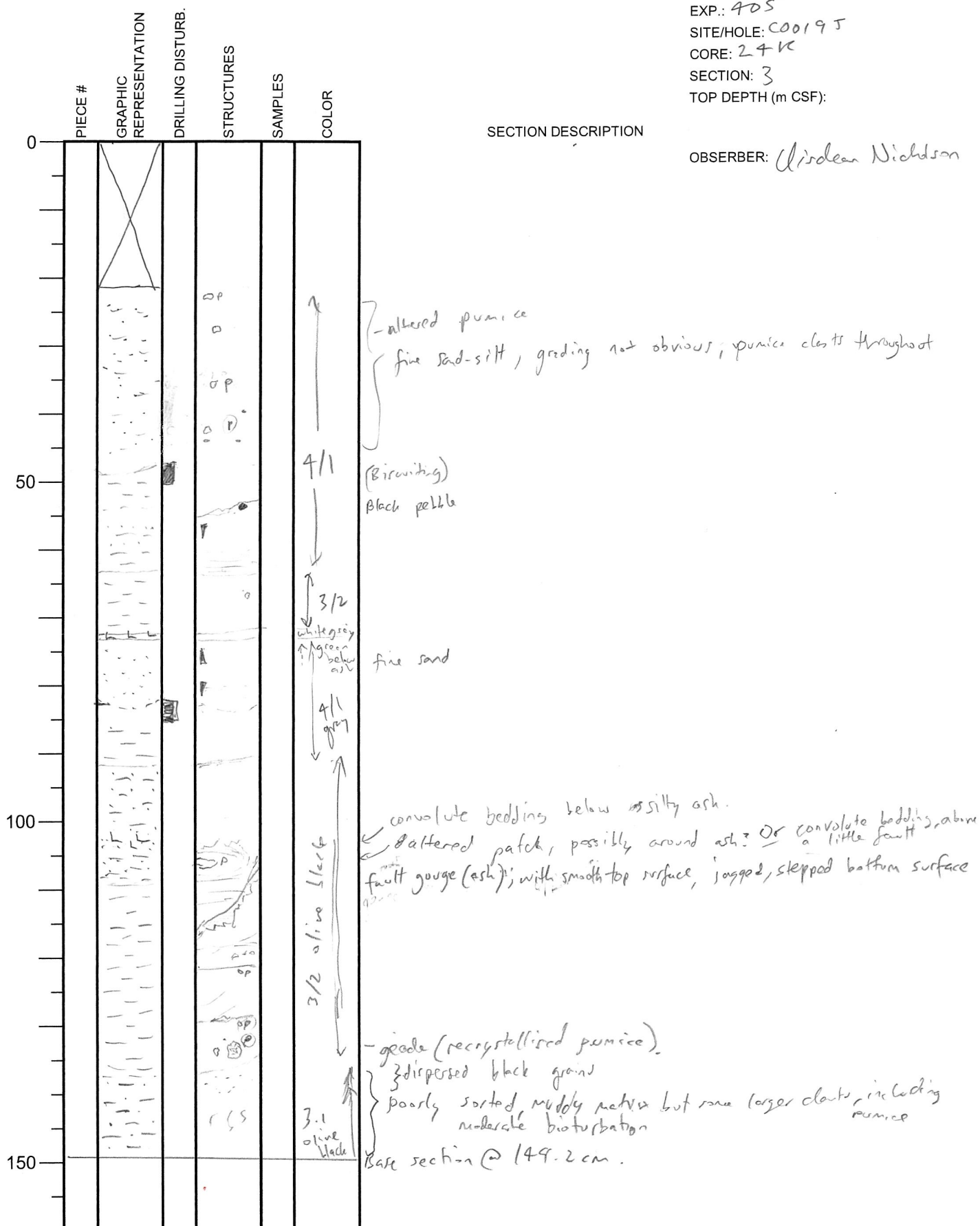


International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 15/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 24K
 SECTION: 3
 TOP DEPTH (m CSF):

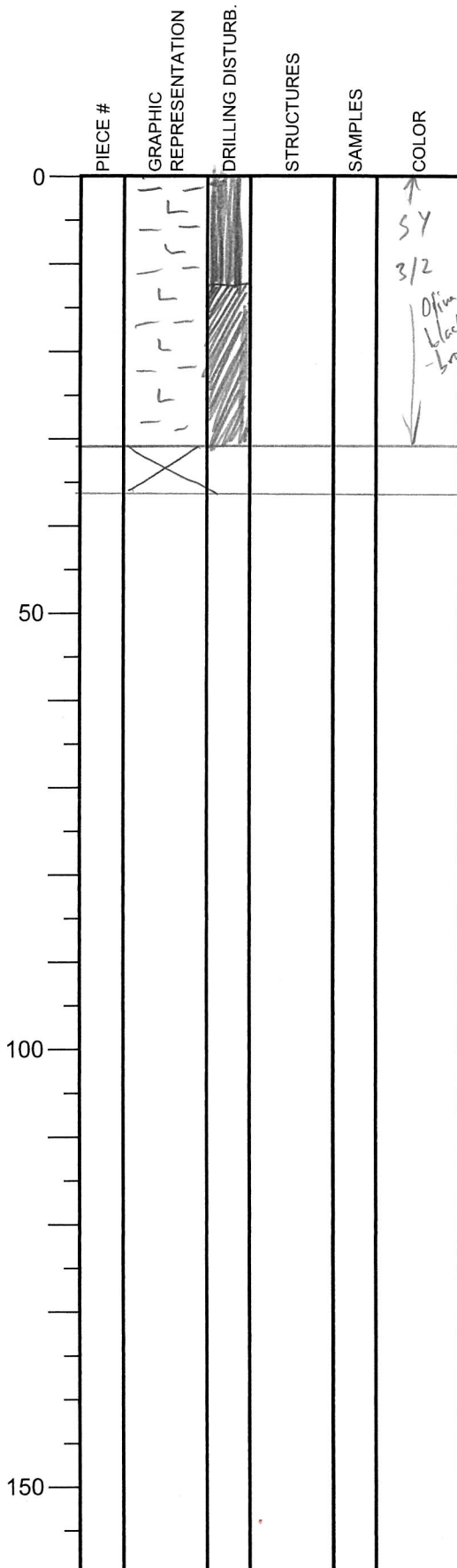
OBSERVER: *Uirdean Nicholson*



International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 15/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 24k
 SECTION: EC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Uidean Nicholson

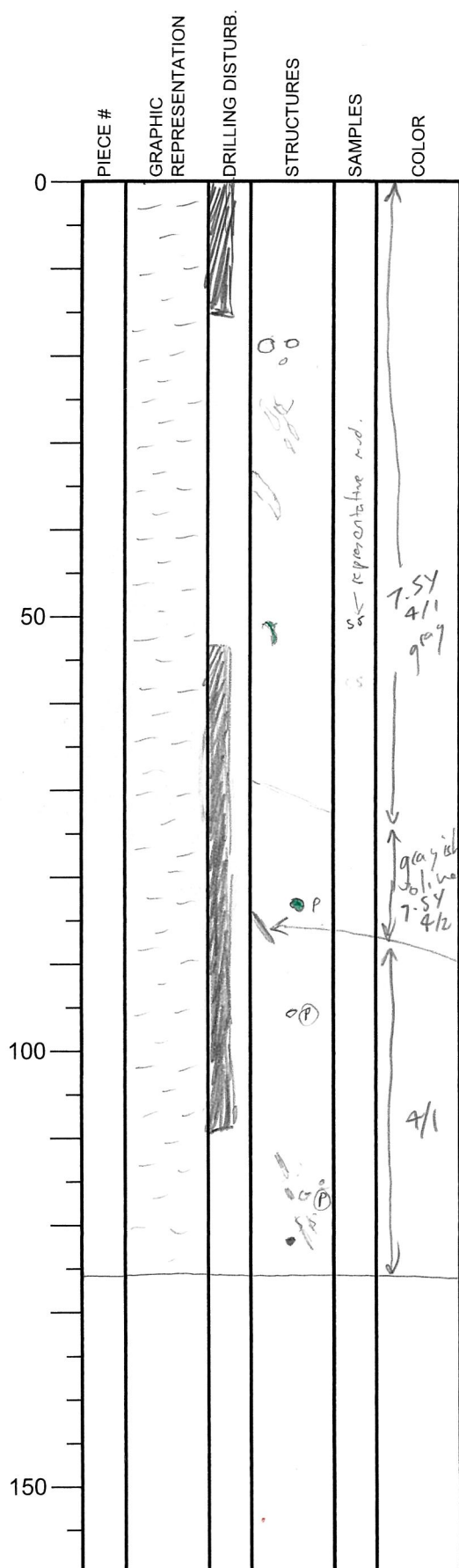
almost completely brecciated
 abundant ash.

BASE OF CORE

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 15/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 25K
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Uisdean Nicholson

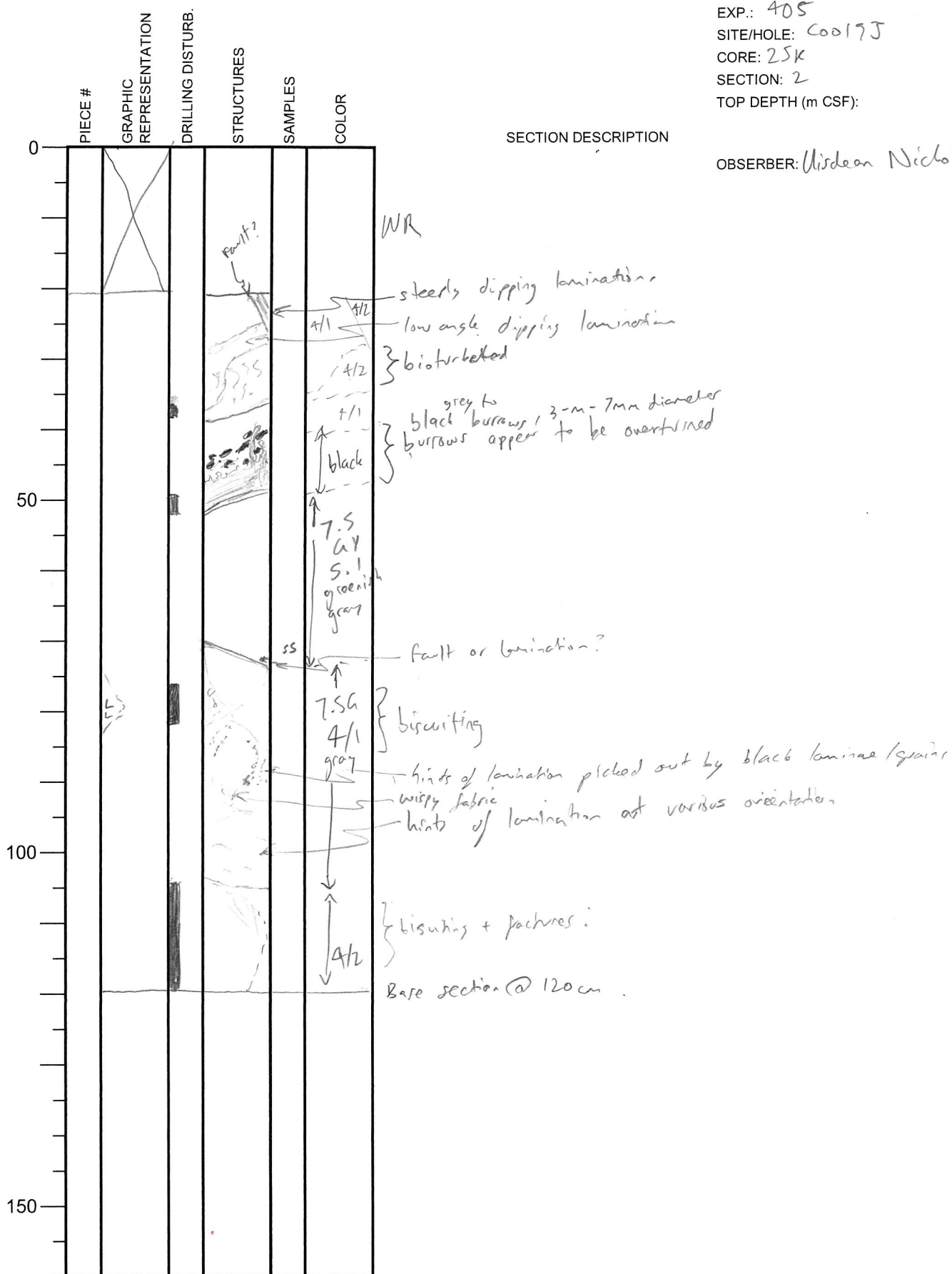
gray - dark gray
 mudstone with evidence
 of soft-sediment
 deformation
 throughout

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 15/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 25K
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: Urdean Nicholson

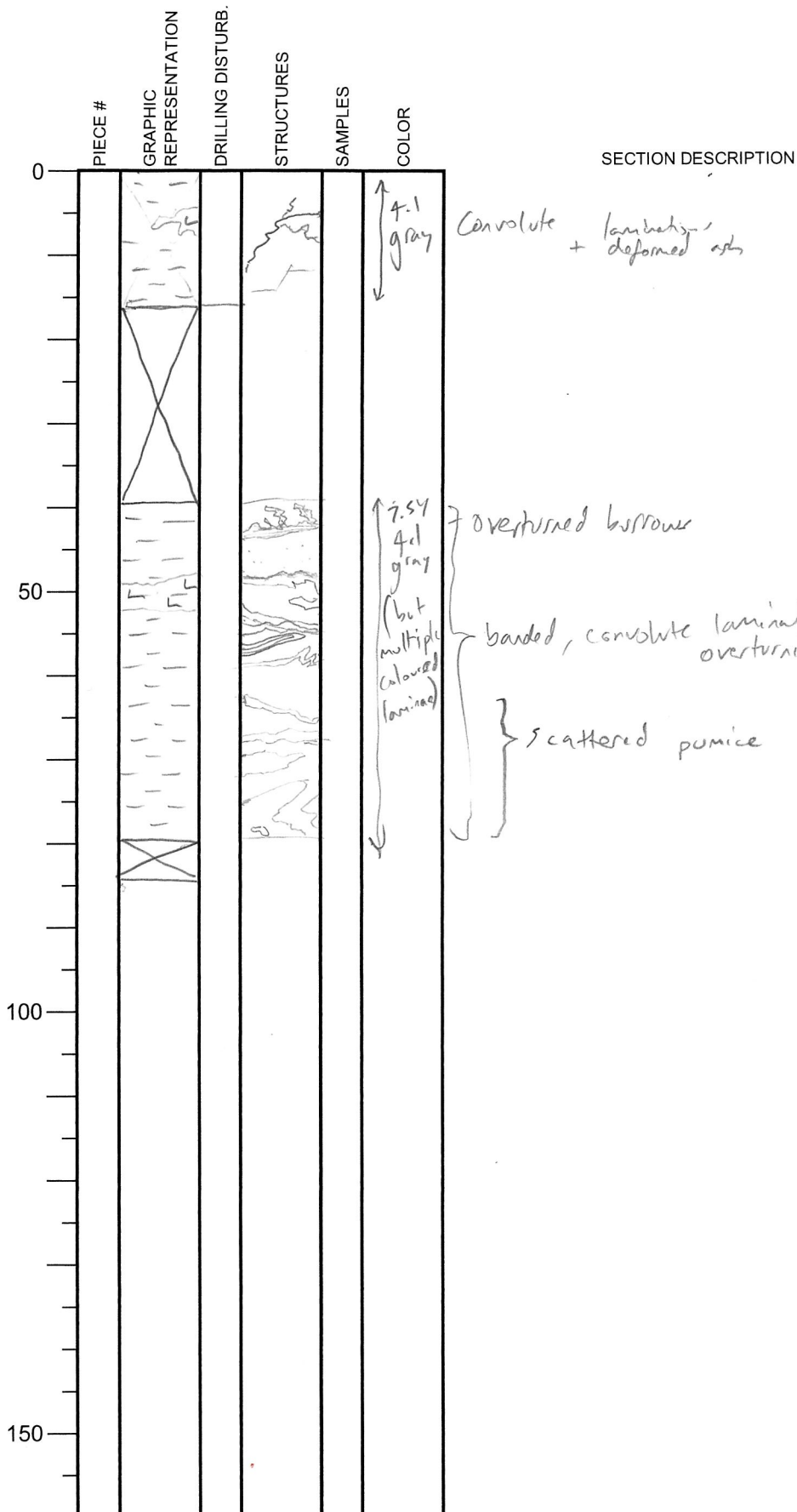


International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 15/01/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 2SK
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER: Uisdean Nicholson



International Ocean Discovery Program

Visual Core Description

NO. 4
DATE: 15/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 2SK
SECTION: 4
TOP DEPTH (m CSF):

OBSERVER: Aisdean Nicholson

SECTION DESCRIPTION

0

PIECE #

GRAPHIC REPRESENTATION

DRILLING DISTURB.

STRUCTURES

SAMPLES

COLOR

Brown-grey drilling

Base of core (a) 45.5 cm

50

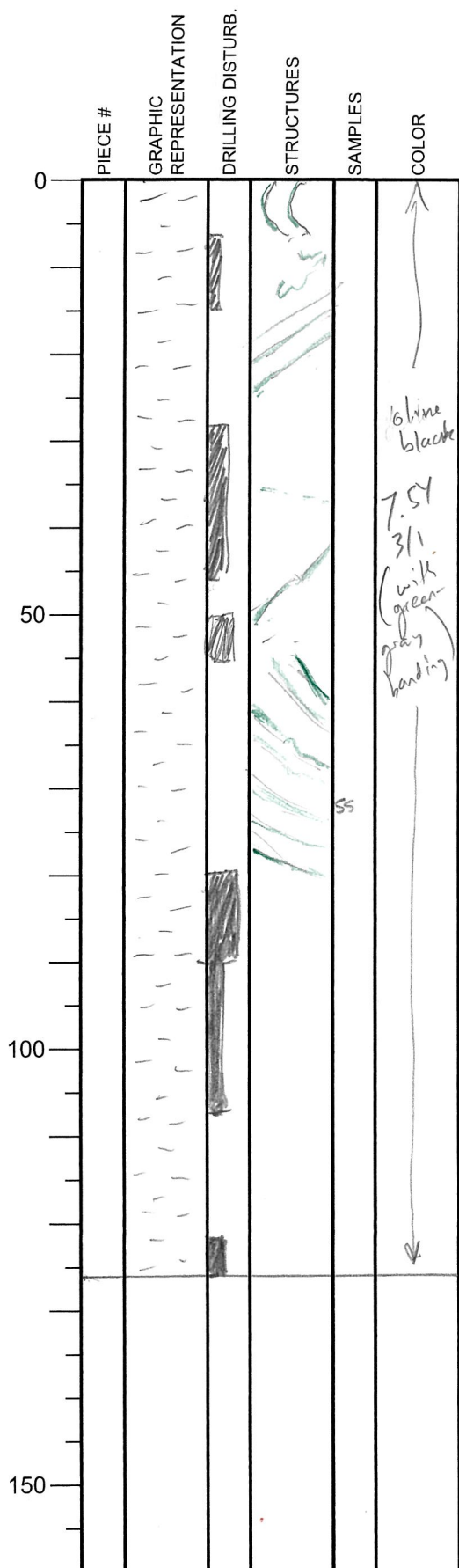
100

150

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 15/10/2024
 EXP.: 405
 SITE/HOLE: C00185
 CORE: 26K
 SECTION: 1-
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Oisdean Nicholson

convolute laminations

gray-green laminae dipping to left

6 line black

7.51
 3/1
 (with green
 gray banding)

gray-green laminae dipping to right
 - angle changes within this section,
 evidence of soft-sed. deformation

SS @ 76 cm

strong drilling disturbance, no lamination visible

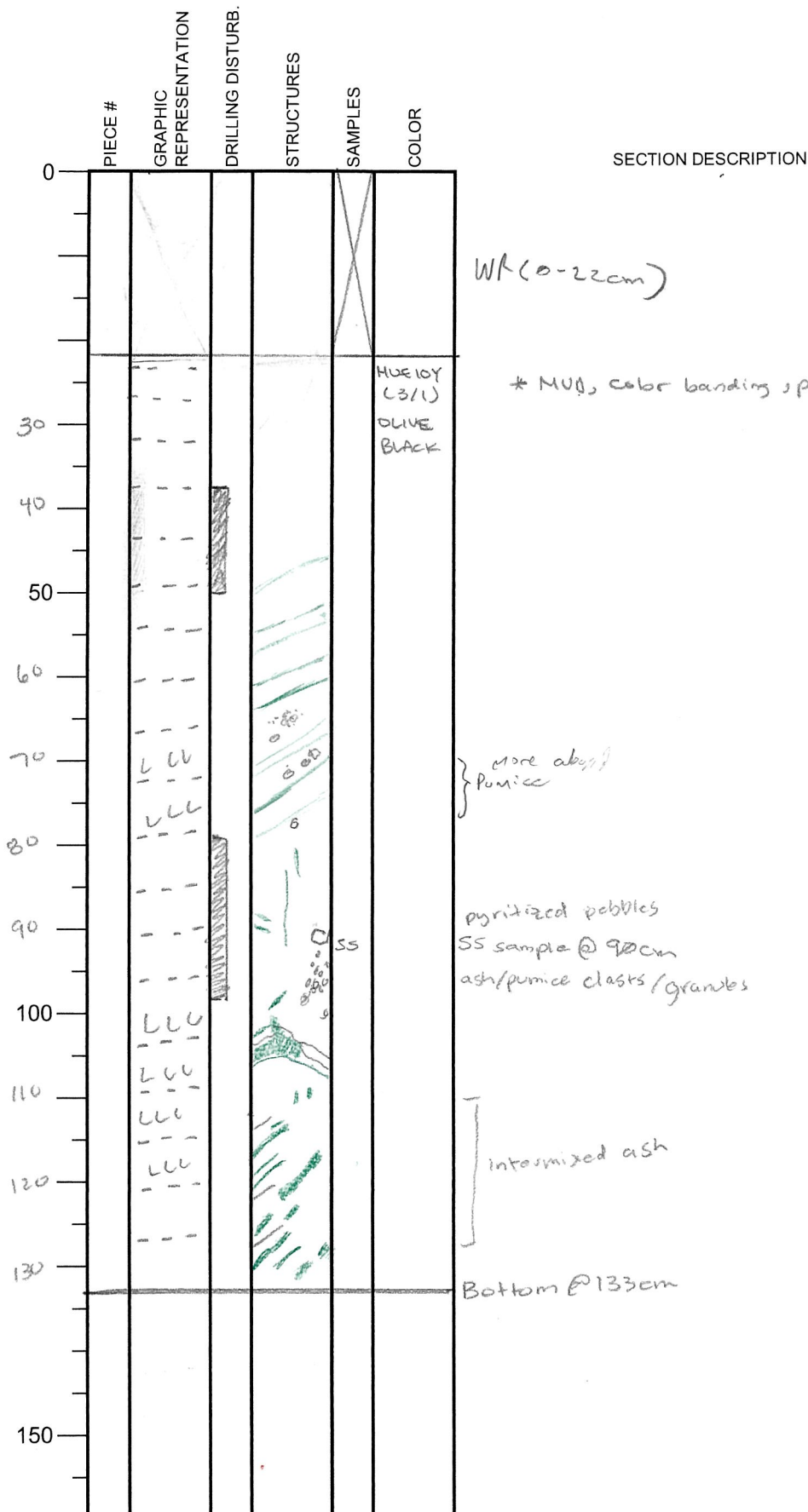
Base of section @ 126 cm

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 15/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 26 K
 SECTION: 21
 TOP DEPTH (m CSF):

OBSERVER: Uisdean & René

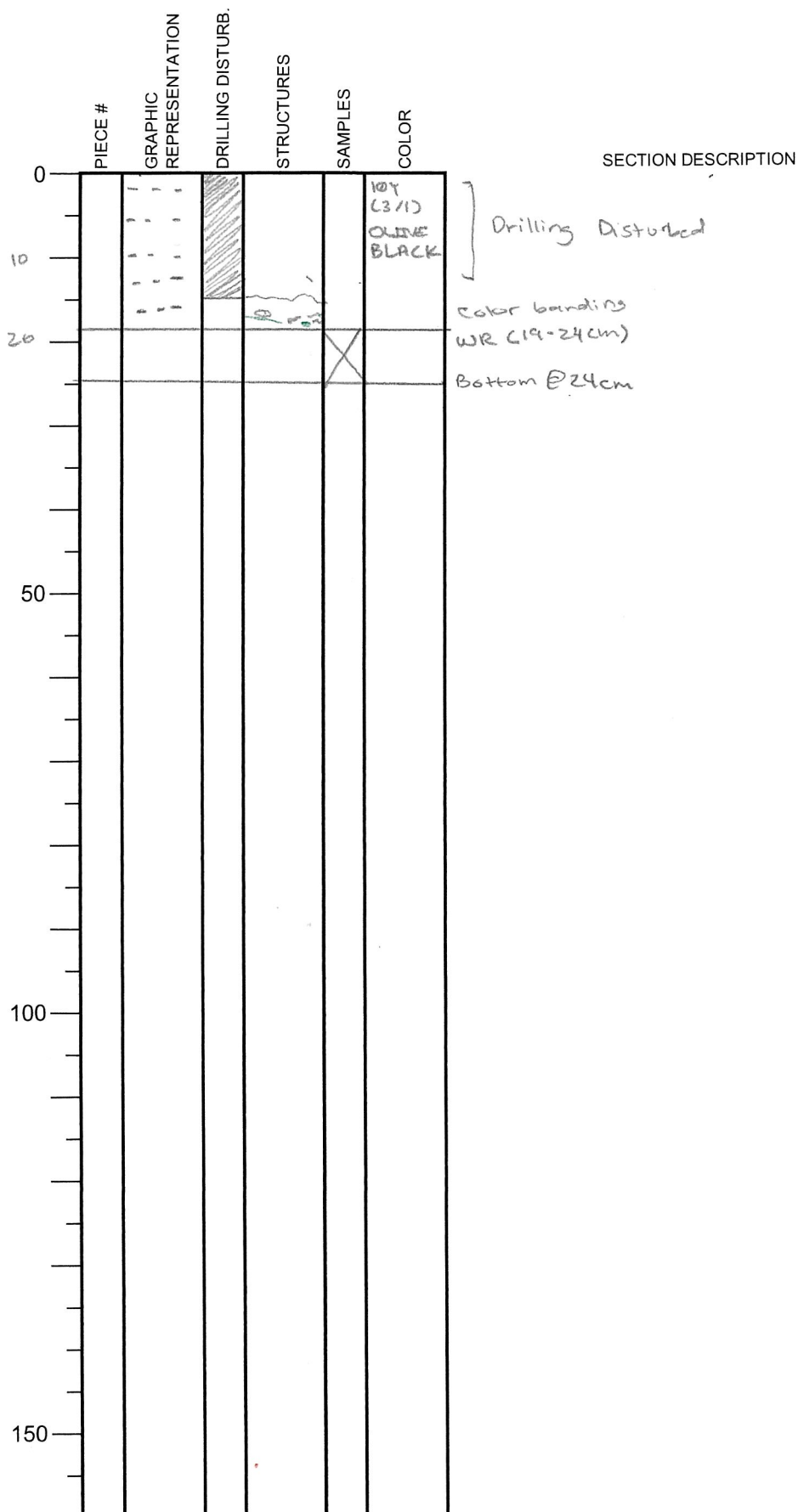


International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 15/2/20
 EXP.: 405
 SITE/HOLE: 60019J
 CORE: 26k
 SECTION: CC
 TOP DEPTH (m CSF):

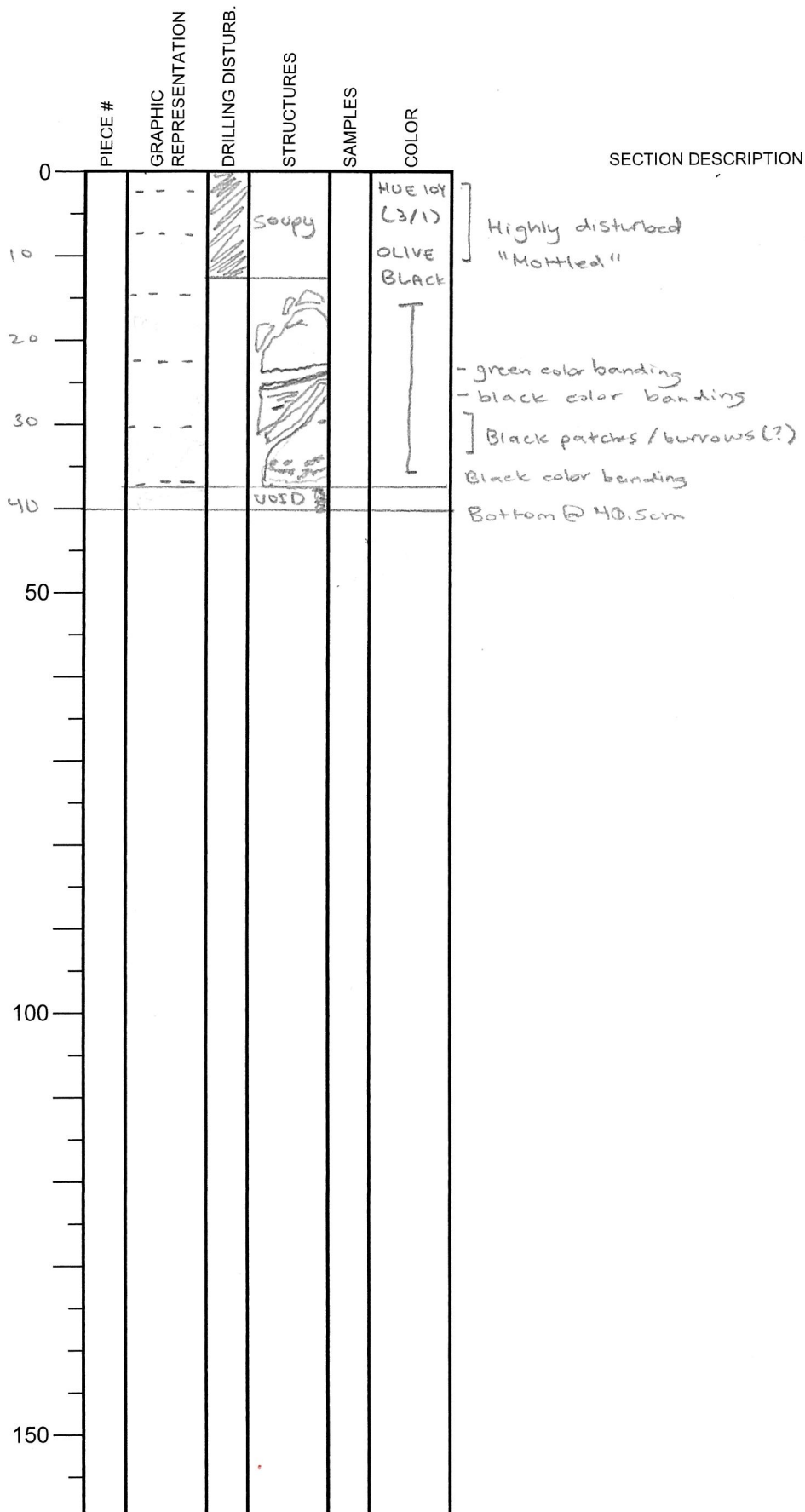
OBSERVER: René Castillo



International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 15/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: Z71K
 SECTION: 1
 TOP DEPTH (m CSF):



OBSERVER: René Castillo

* Soupy mud with green-black color banding & black patches

International Ocean Discovery Program

Visual Core Description

NO. 2

DATE: 15/10/2024

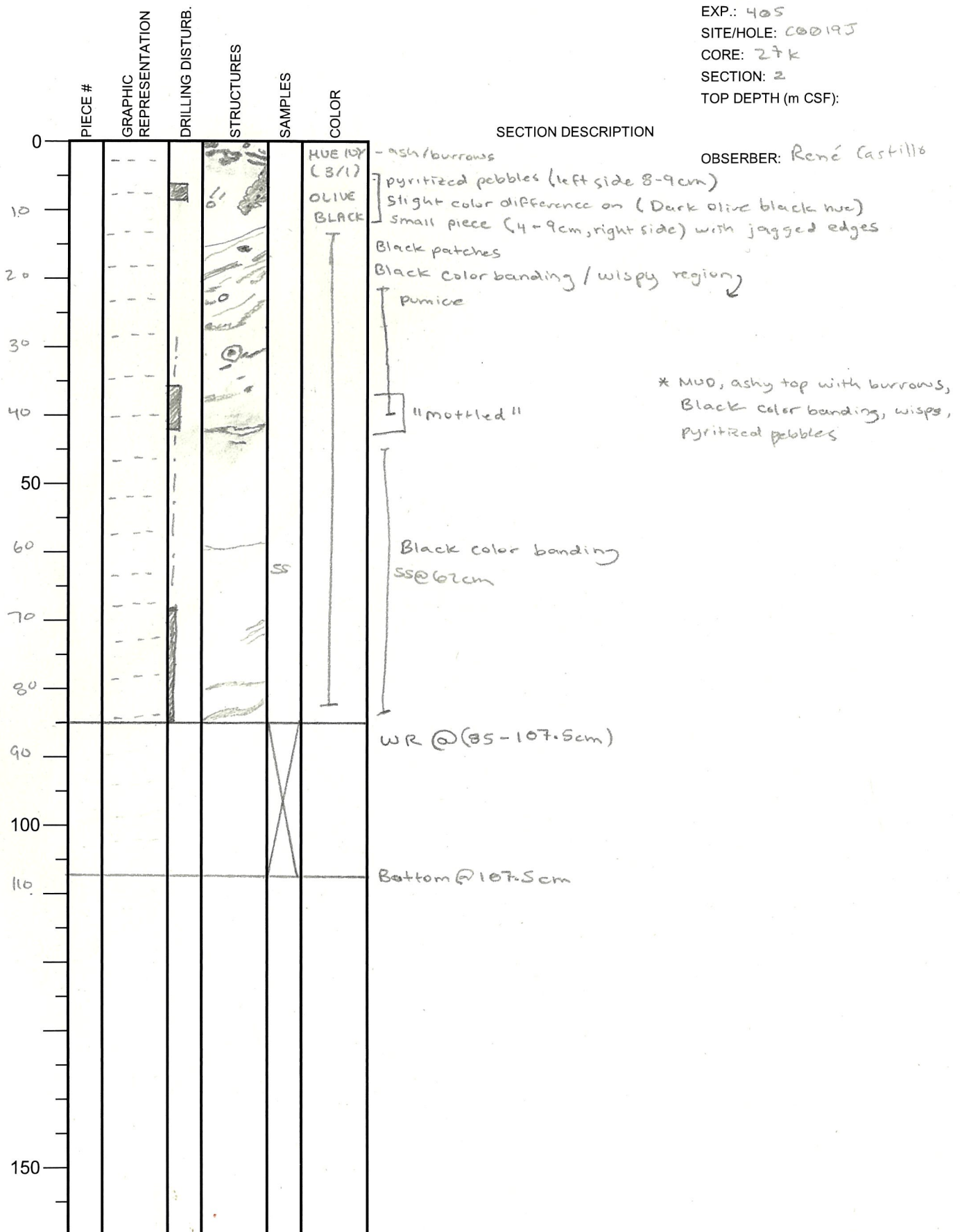
EXP.: 405

SITE/HOLE: C0019J

CORE: 27K

SECTION: 2

TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

NO. 3

DATE: 15/10/2024

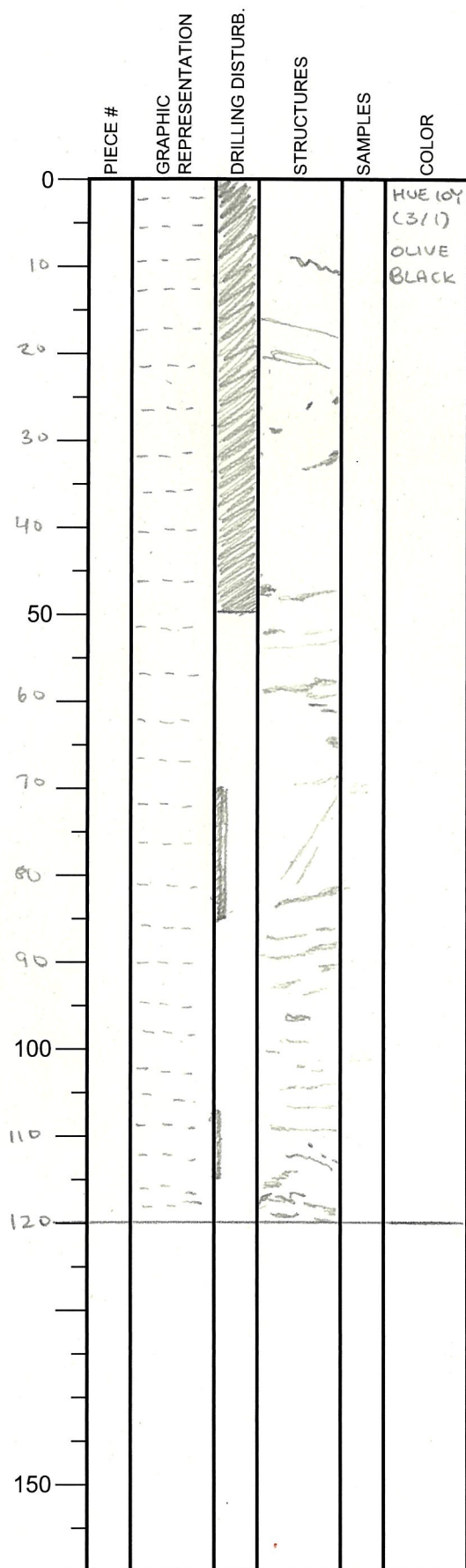
EXP.: 405

SITE/HOLE: C0019J

CORE: 27K

SECTION: 3

TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: René Castillo

*MUD, mostly "mottled", disturbed @ top, wisps + black banding, pyrite clast @ bottom

"Mottled"

"Mottled"

"Mottled"

ss @ 70cm
wisps + black colored banding

pyritized clast

ss @ 100cm

Burrows(?)

↓ Bottom @ 120cm

International Ocean Discovery Program

Visual Core Description

NO. 4

DATE: 15/10/2024

EXP.: 405

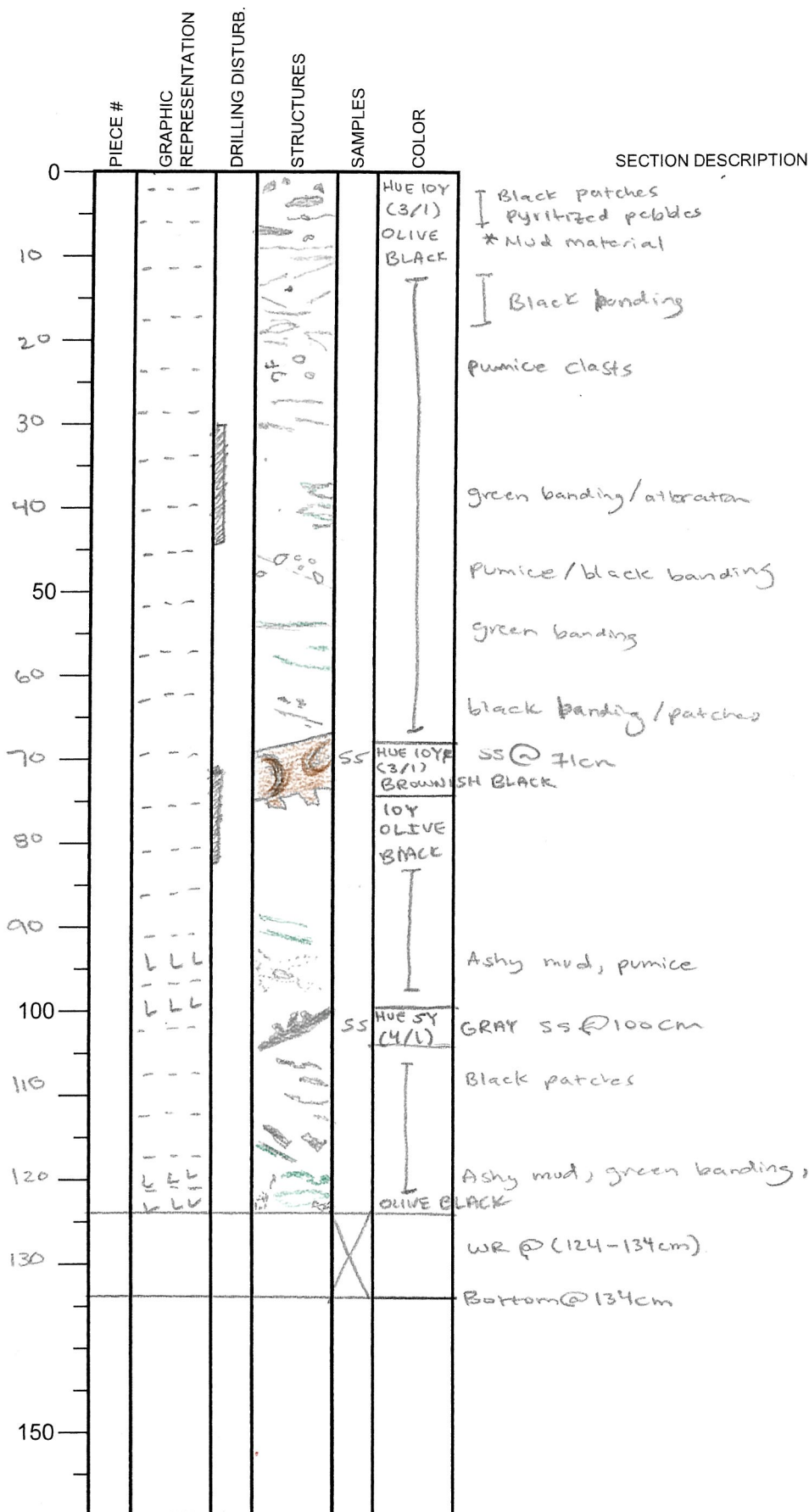
SITE/HOLE: C0019J

CORE: 271K

SECTION: 4

TOP DEPTH (m CSF):

OBSERVER: René Castillo



MUD, ashy patches with pumice clasts, ~~black~~ black patches, green/black banding, pyritized pebbles

NO. 5
DATE: 14/10/20
EXP.: 405
SITE/HOLE: CDD19J
CORE: 27K
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
					0~9 9 slightly
					↑ 26.3 cm
50					
100					
150					

1. faint make way? or link? structure.
 color banding (yellowish & greenish & grayish
 & brownish)

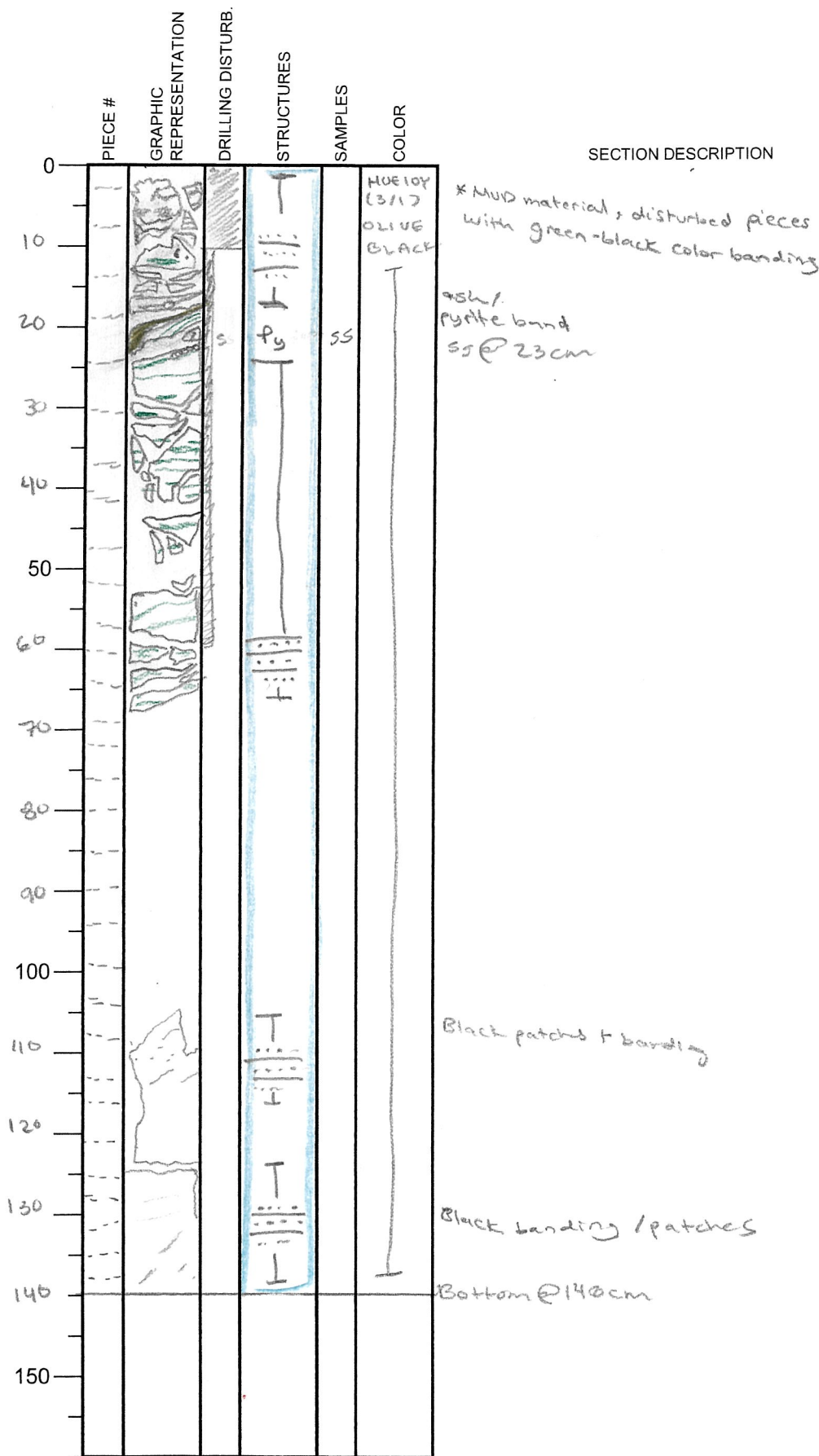
Some variations have!

- grayish.
dark olive gray 2.5GY +/-
- black & greenish.
2.5GY 2.5GY 3/1
2/1
- yellowish
Hue 10Y 3/2 olive black.
- mixing brownish color
Hue 10Y 3/1 olive black

International Ocean Discovery Program
Visual Core Description

NO. 1
DATE: 15/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 28K
SECTION: 1
TOP DEPTH (m CSF):

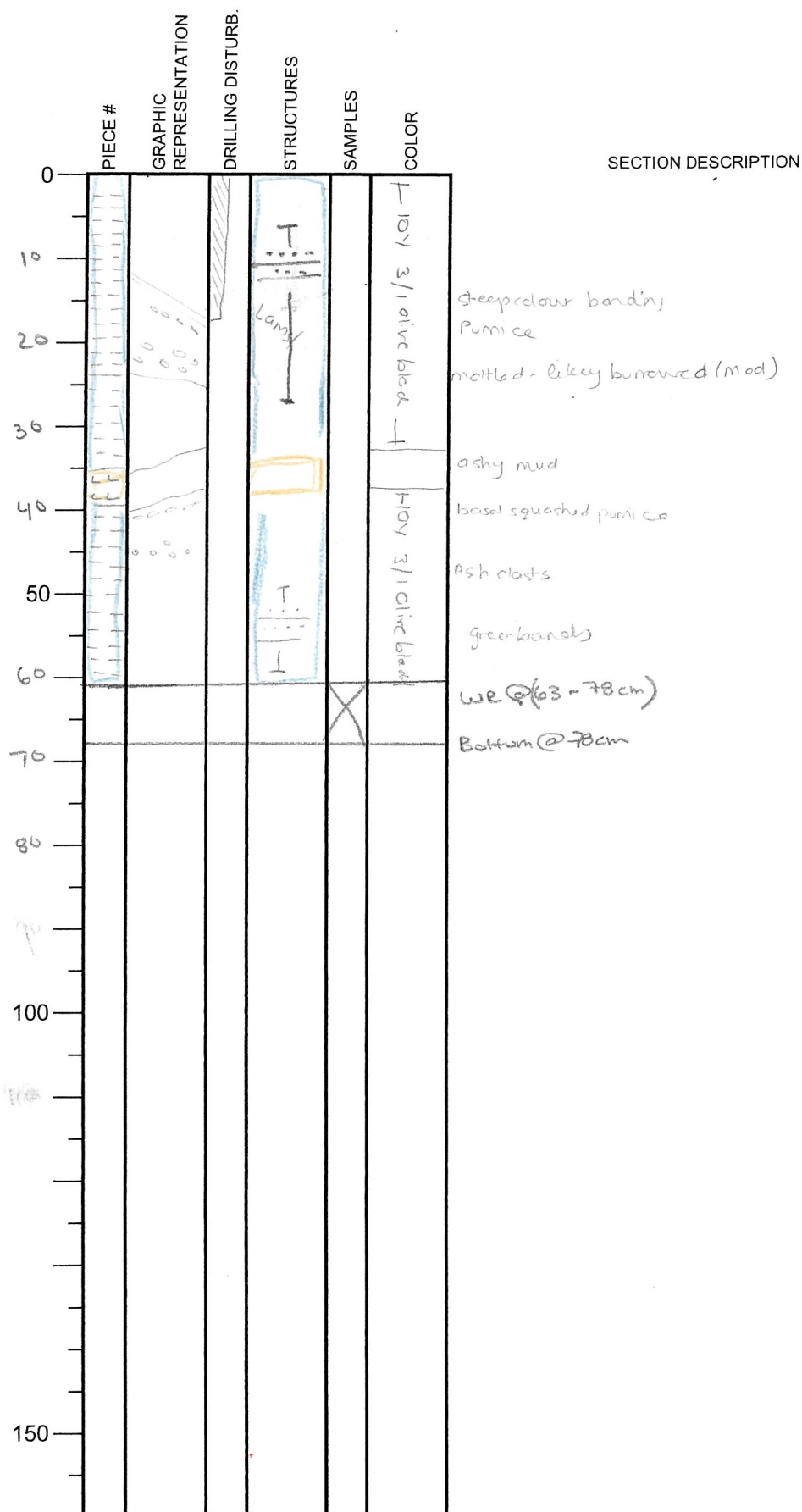
OBSERBER: René Castillo



International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 15/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 28K
SECTION: 2
TOP DEPTH (m CSF):

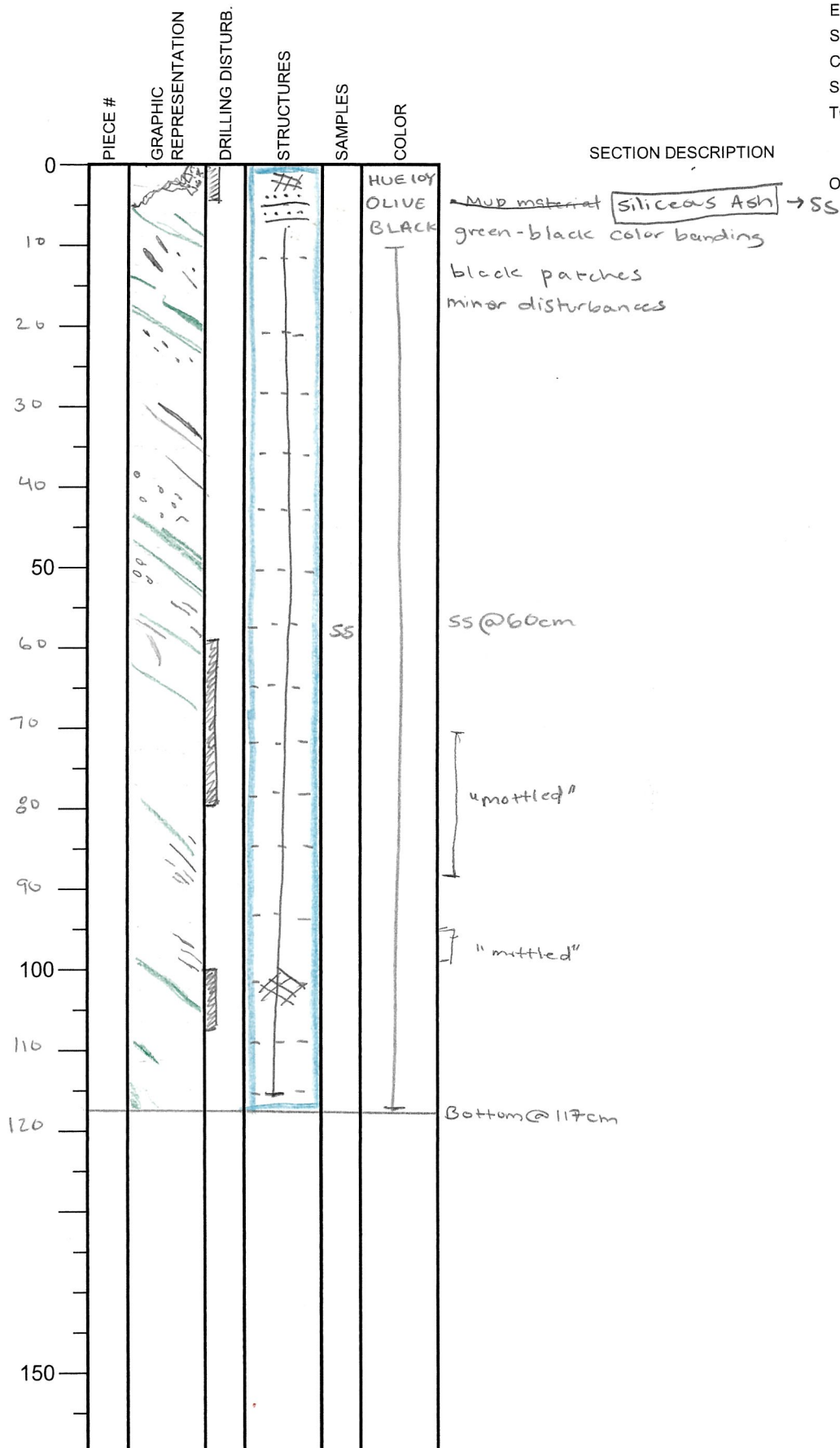
OBSERVER: René Castillo &
Amy J



International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 14/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 281K
 SECTION: 3
 TOP DEPTH (m CSF):

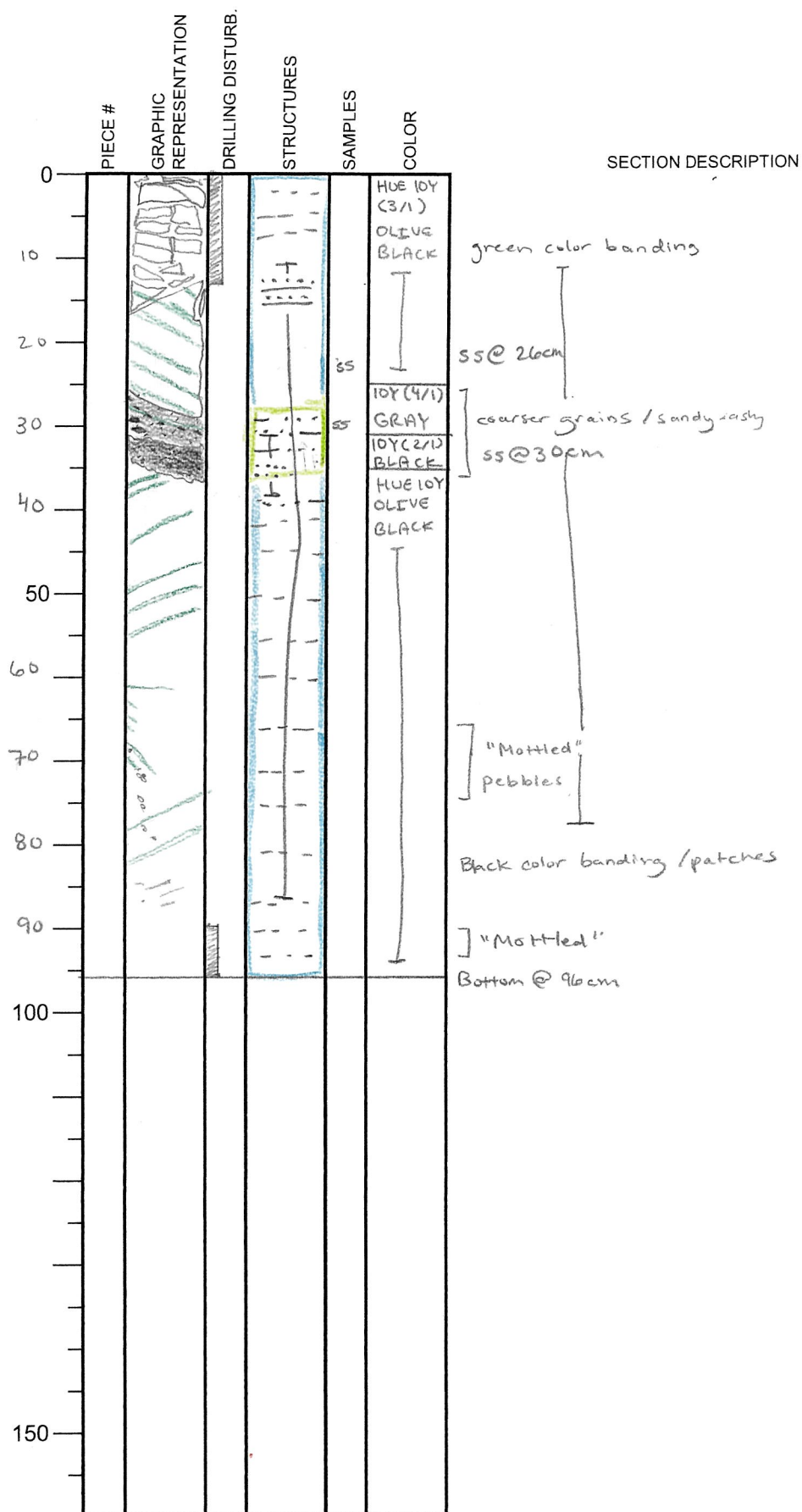


OBSERVER: René Castillo

International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 15 / 10 / 20 24
 EXP.: 405
 SITE/HOLE: C00193
 CORE: 28 K
 SECTION: 4
 TOP DEPTH (m CSF):



OBSERVER: René Castillo

*MUD material, green color banding, sandy / ash layer, pebbles towards bottom + mottled texture

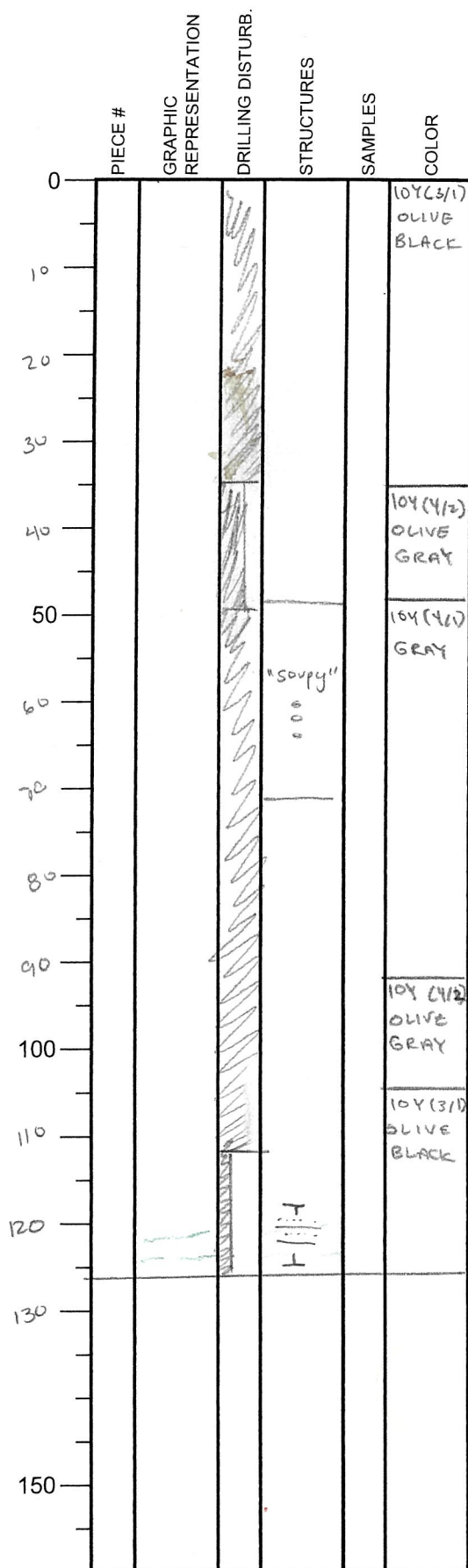
NO. 5
DATE: 15/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 28 K
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	
0					HUE (O) (3/1) OLIVE BLACK	SECTION DESCRIPTION
						* Highly disturbed.
50				X		WR @ (44.5 - 49.5) PAL Bottom @ 49.5cm
100						
150						

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 15/10/20 24
 EXP.: 405
 SITE/HOLE: 00019J
 CORE: 29K
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: René Castillo

* Highly disturbed, mottled, mud with distinct color changes / mottled

green color banding

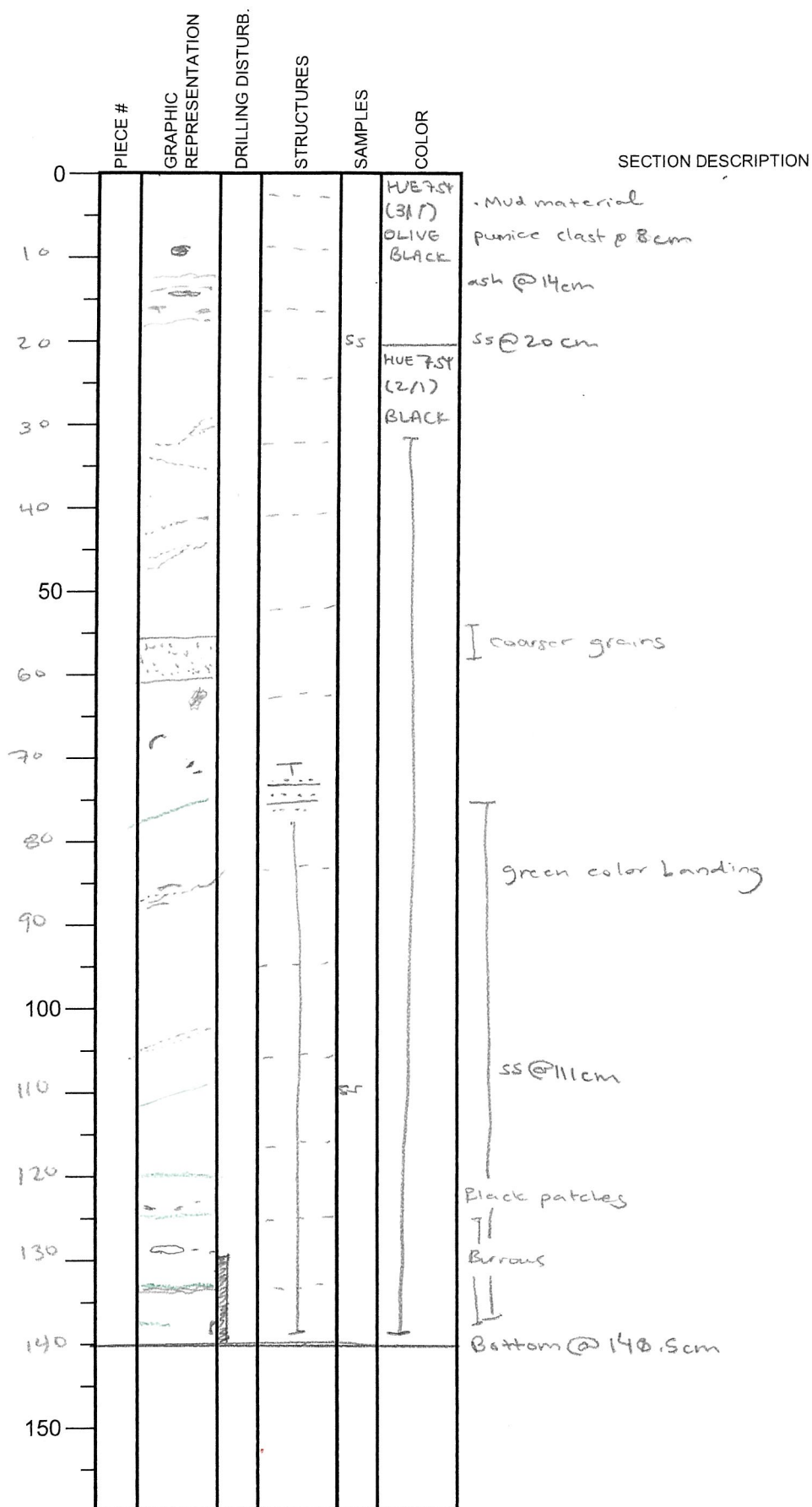
Bottom @ 126.5cm

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 15/20/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 29K
 SECTION: 2
 TOP DEPTH (m CSF):

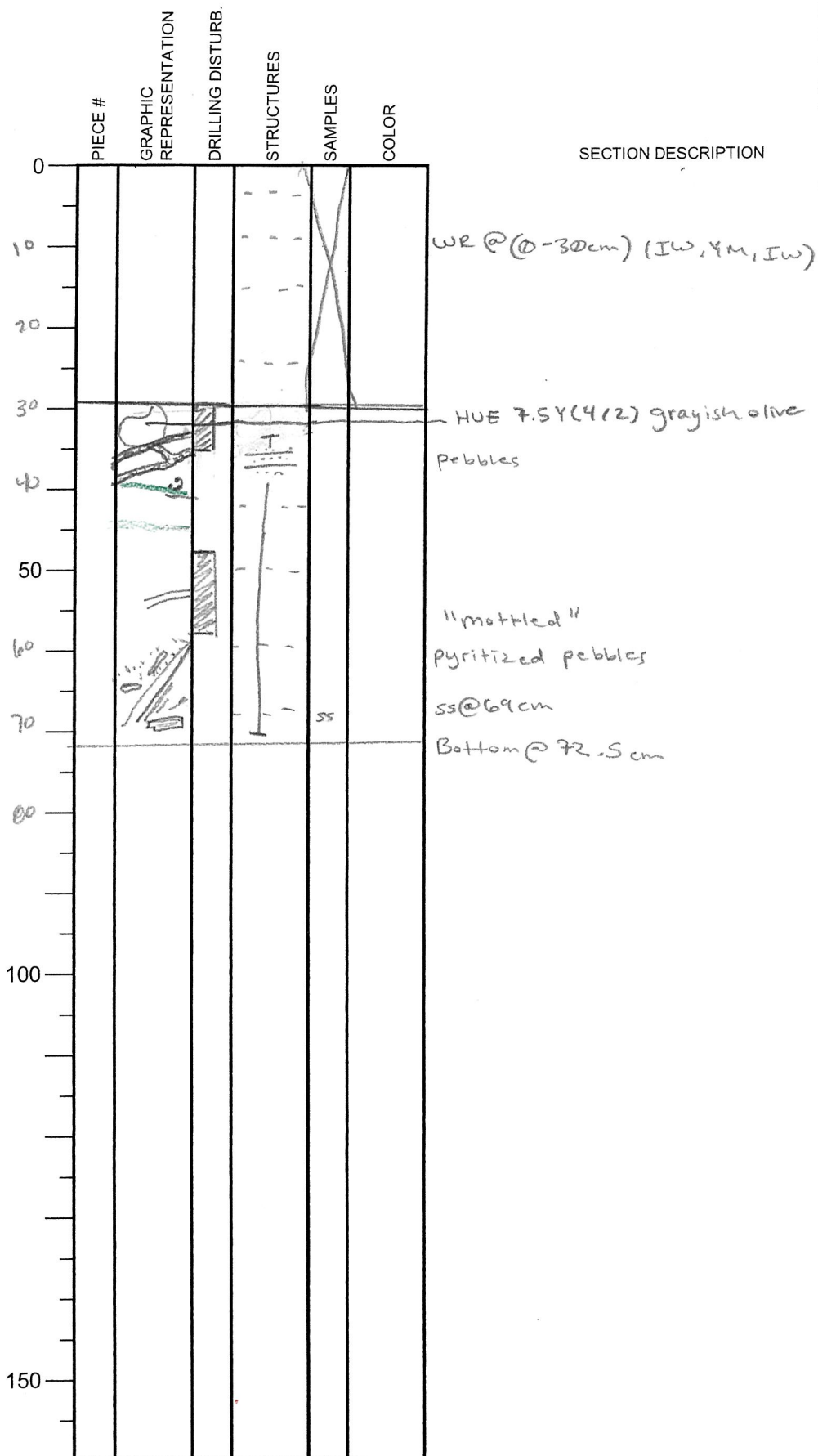
OBSERVER: René Castillo



International Ocean Discovery Program

Visual Core Description

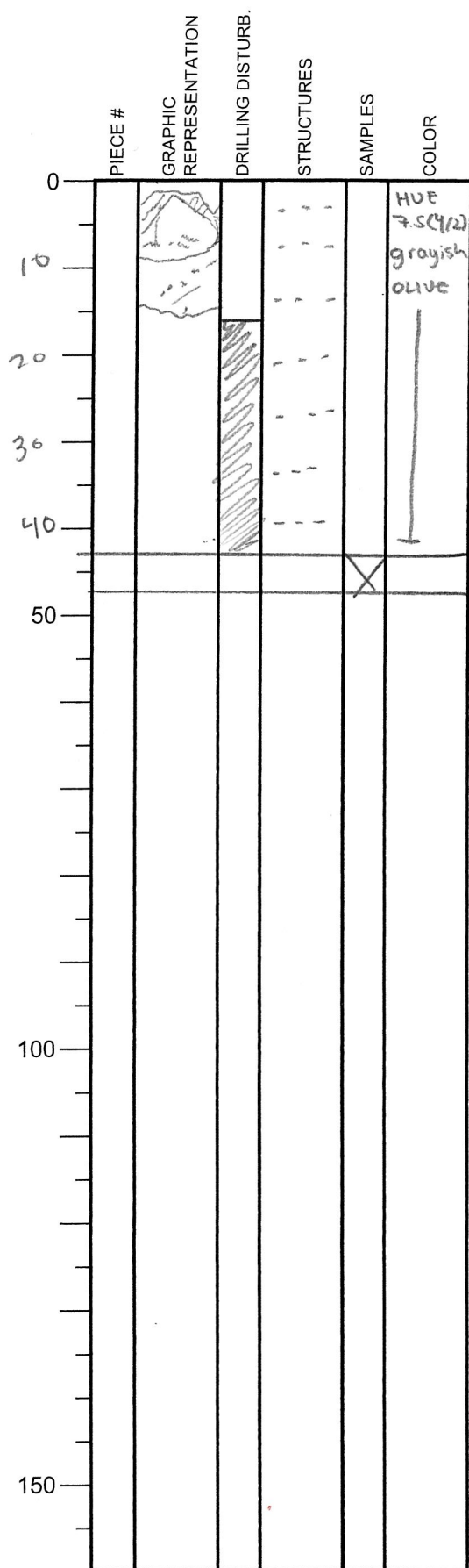
NO. 3
 DATE: 15/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 29K
 SECTION: 3
 TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 15/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 29K
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

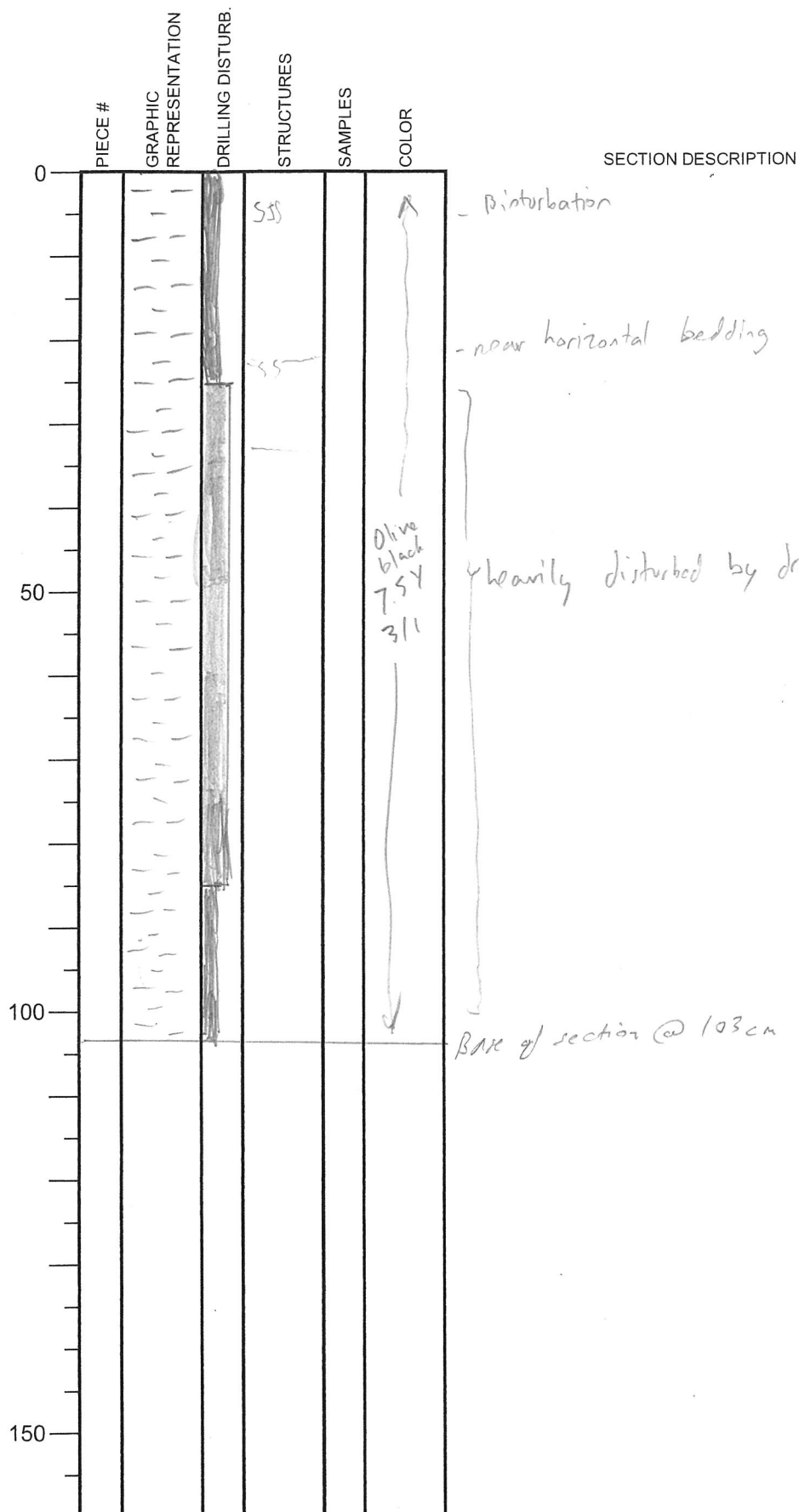
OBSERVER: René Castillo

* Highly disturbed mud, AOI @ 0-10cm
 I "mottled"

WR @ (42.5 - 47.5cm) PAL
 Bottom @ 48.5cm

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 16/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 30k
SECTION: 1
TOP DEPTH (m CSF):

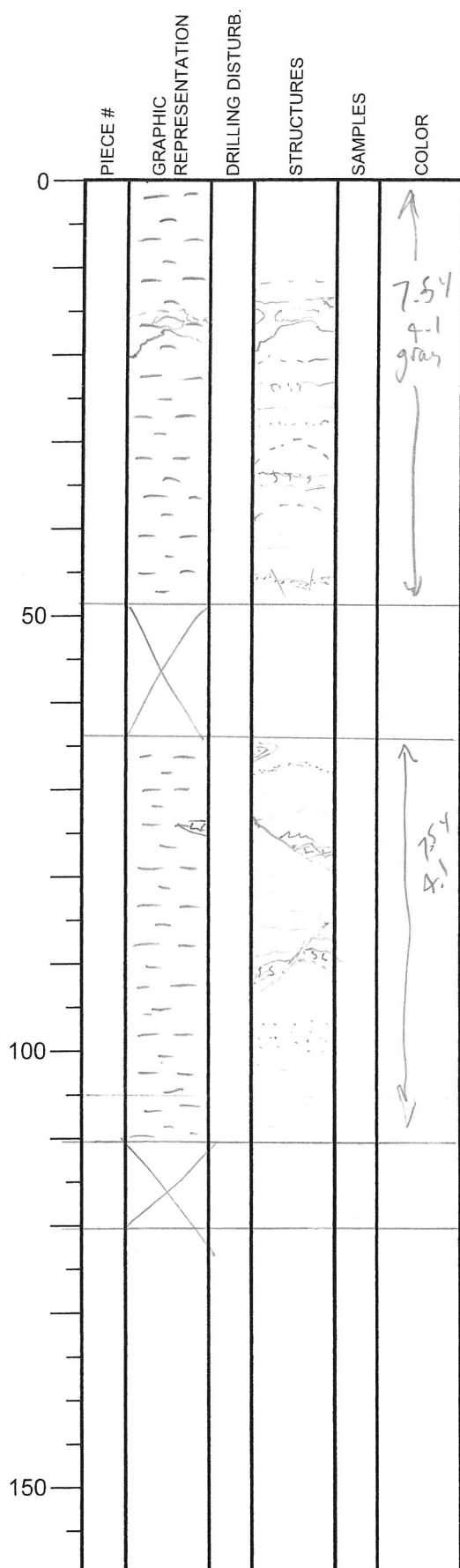


OBSERVER: Uidean Nicholson

Olive black
mudstone

NO. 2
DATE: 16/10/2024
EXP.: 105
SITE/HOLE: C0019J
CORE: 30k
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER: Uisdean Nicholson



SECTION DESCRIPTION

near horizontal lamination?

- angular top surface of med. stone with olive clay (altered from ash at top - discontinuous).

{ subtle lamination, gray-green + silt laminae

- convex-up surfaces - probable bioeroding
- bioturbated laminae

- silty laminae offset by small normal faults

WR

-silt land, convex-up

} laminae, discontinuous, partly bioturbated

ash bed 1 cm offset by normal fault. small convolute
laminae above indicate soft-sediment deformation?

↳ disturbed green-gray lamination offset by normal fault

7. subtle green-gray-brown laminations showing mild bioturbation.

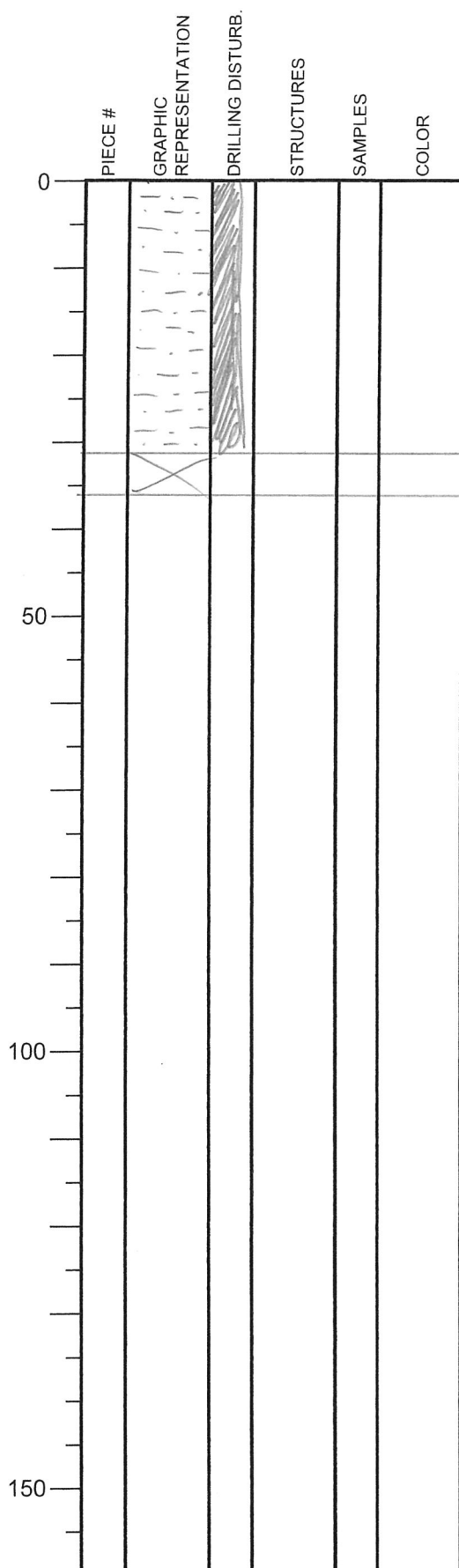
WR

WR
Base of section @ 120 cm

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 16/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 30k
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

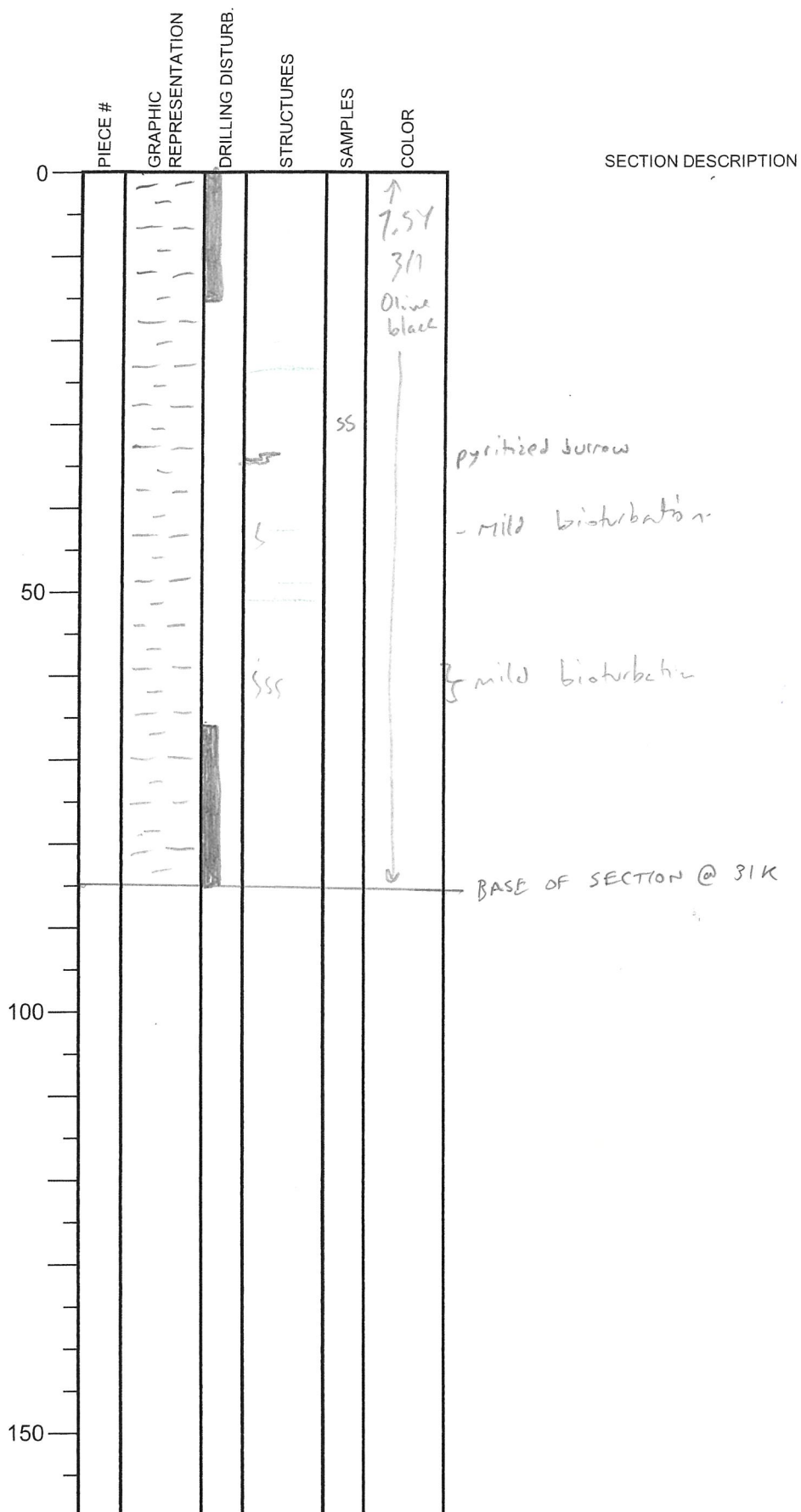
OBSERVER: Uisdean Nicholson

Offine gray siltstone almost
 completely disrupted by drilling

Base of core @ 36cm

International Ocean Discovery Program Visual Core Description

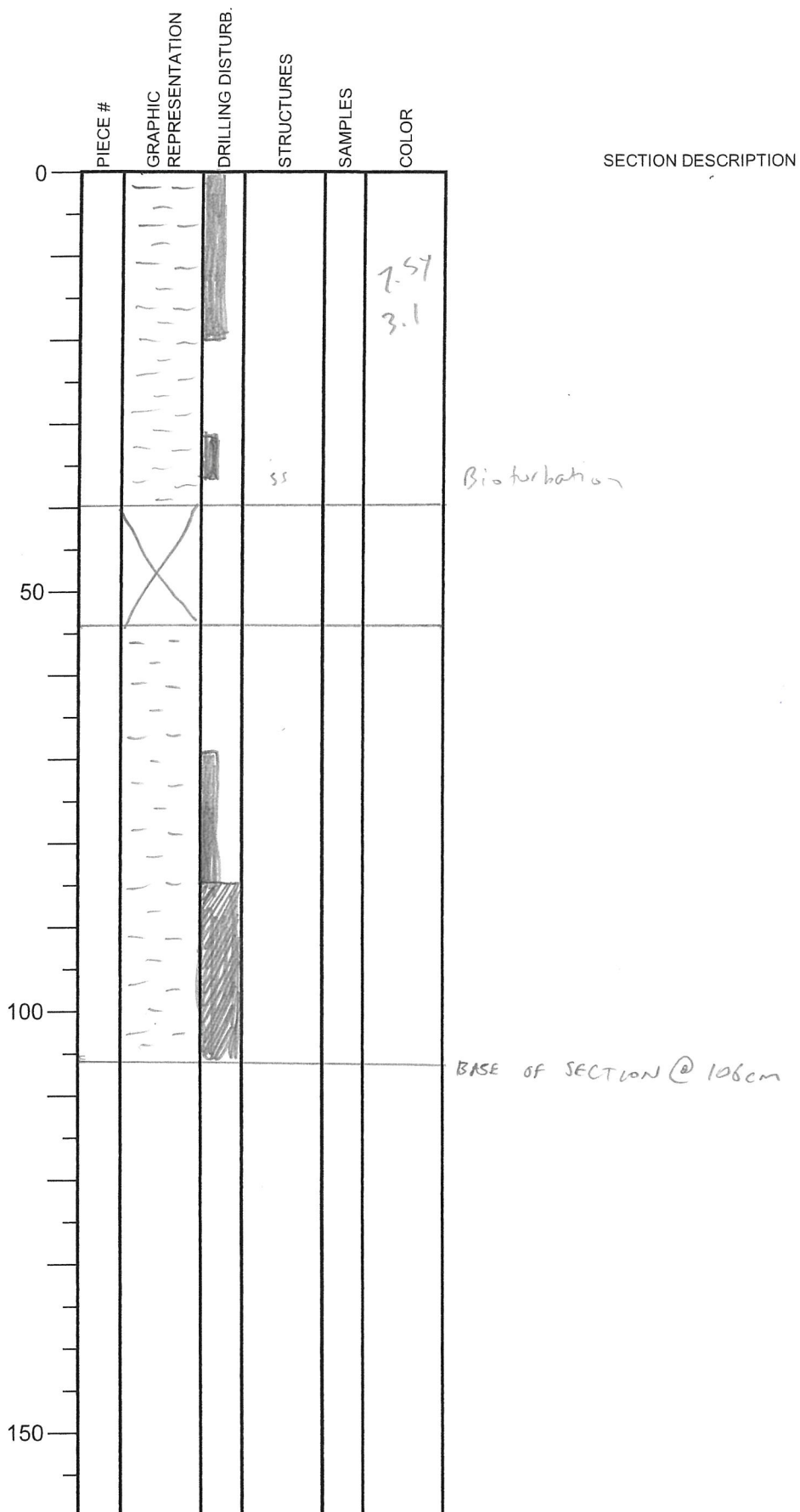
NO. 1
DATE: 16/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 31K
SECTION: 1
TOP DEPTH (m CSF):



OBSERVER: Uisdean Nicholson

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 16/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 31k
SECTION: 2
TOP DEPTH (m CSF):



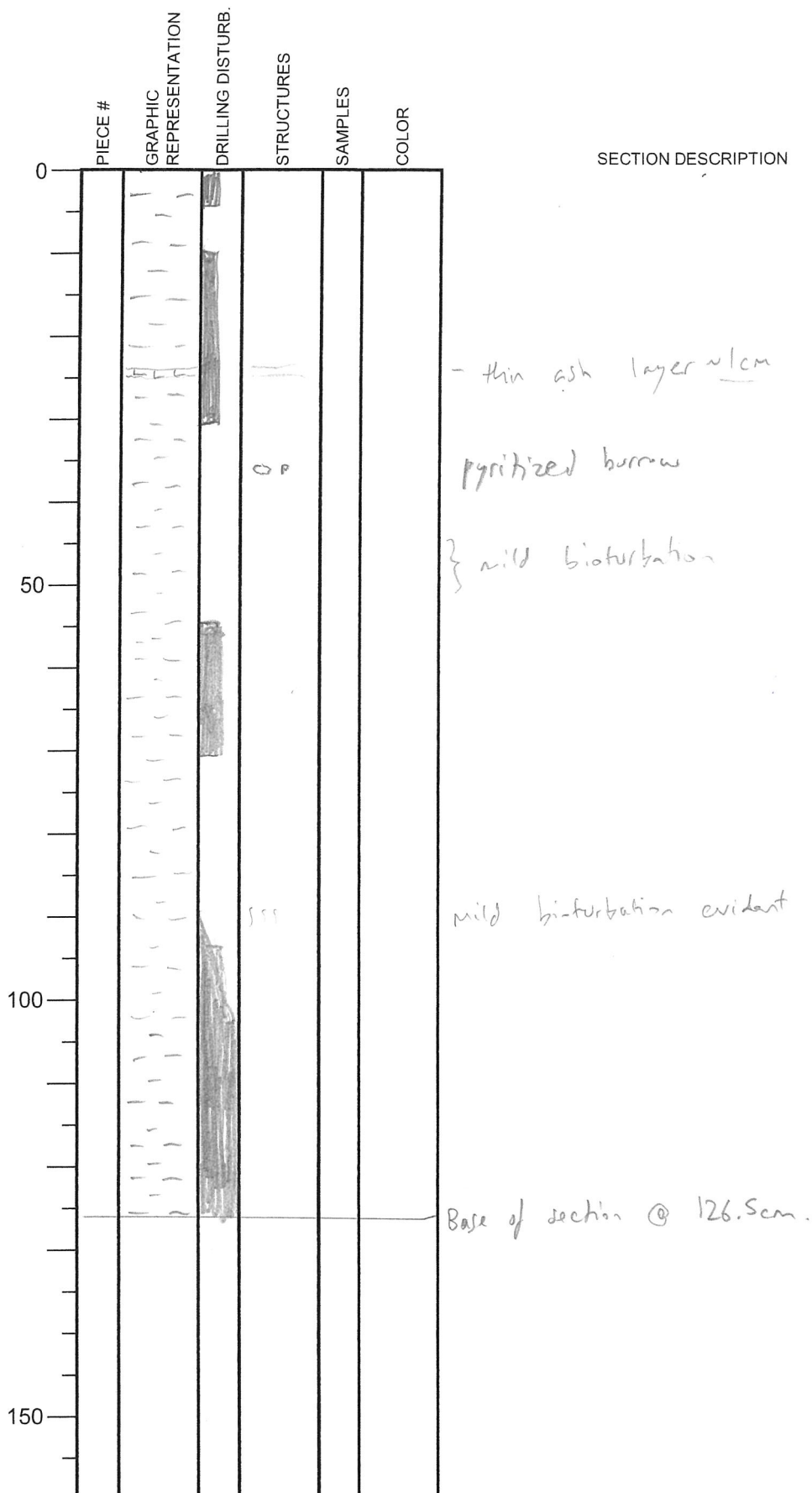
OBSERVER: Wister Nicholson

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 16/01/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 31K
 SECTION: 3
 TOP DEPTH (m CSF):

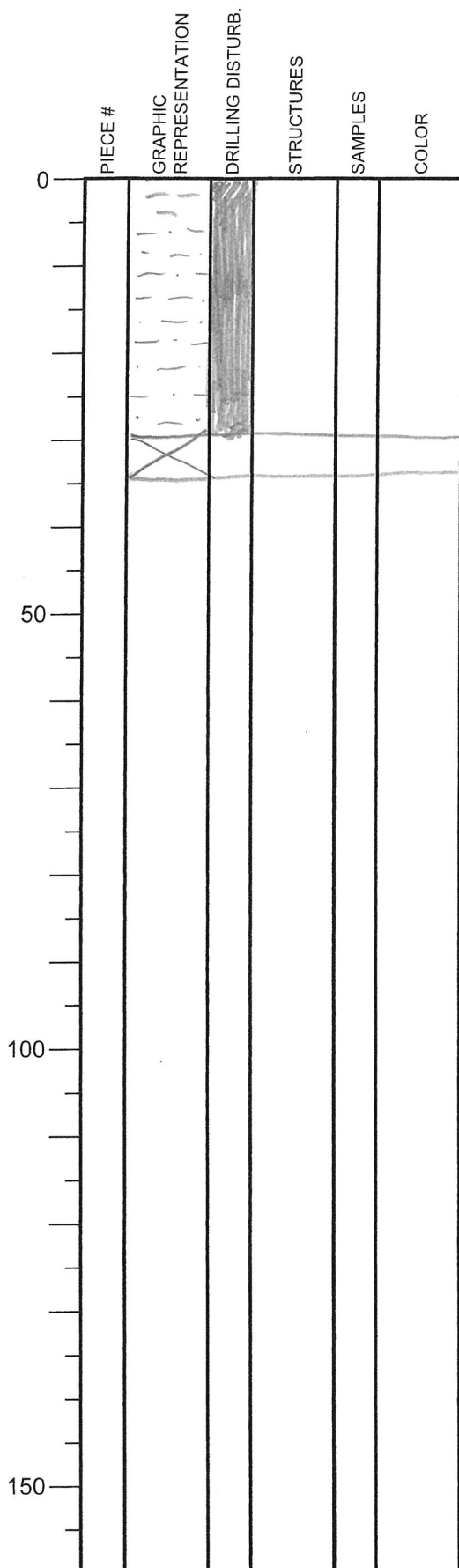
OBSERVER: Usdean Nicholson



International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 16 / 10 / 2024
 EXP.: 405
 SITE/HOLE: C00193
 CORE: 31K
 SECTION: CC
 TOP DEPTH (m CSF):



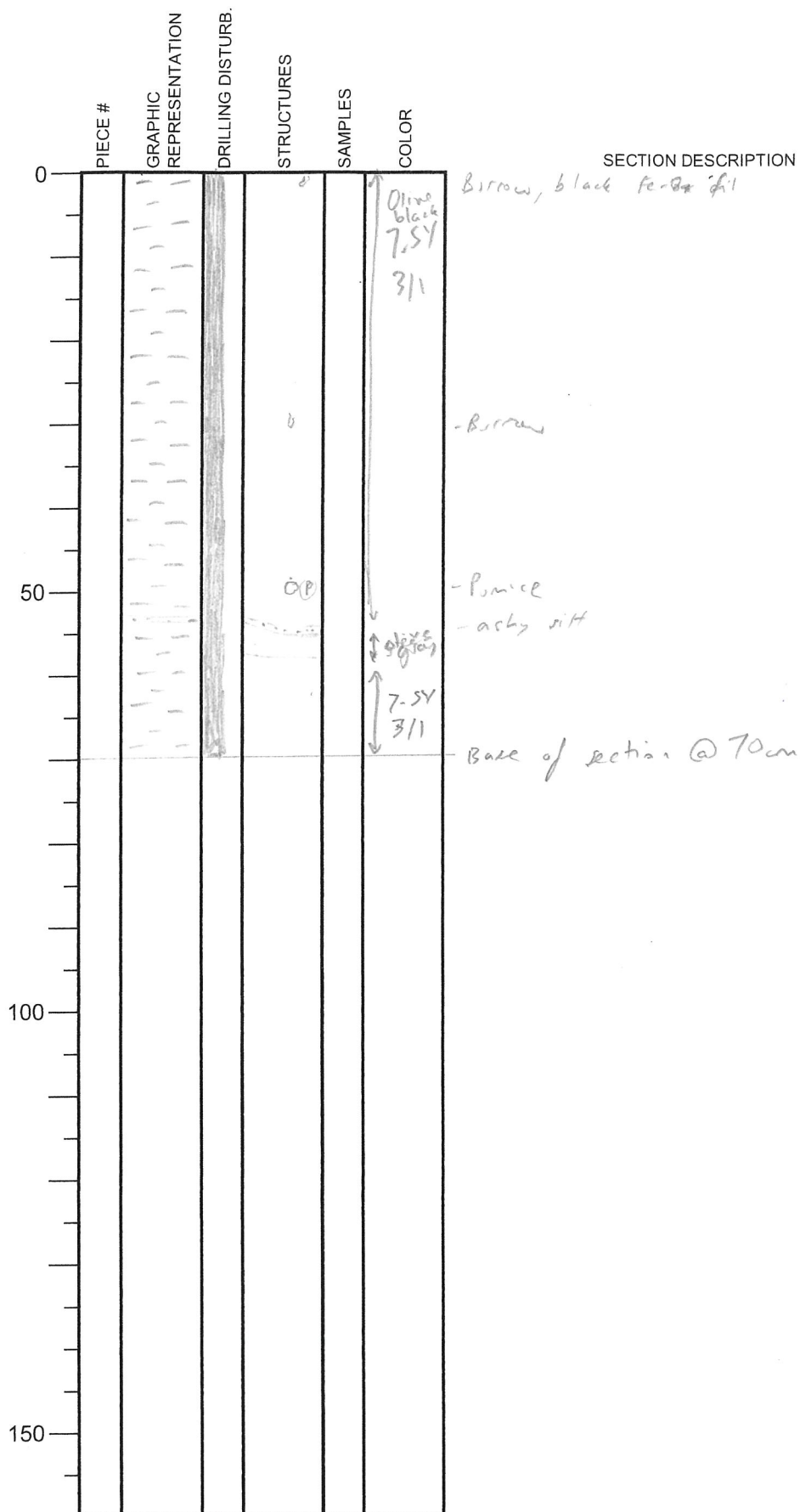
SECTION DESCRIPTION

OBSERVER: Virdean Nicholson

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 16/01/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 32K
 SECTION: 1
 TOP DEPTH (m CSF):

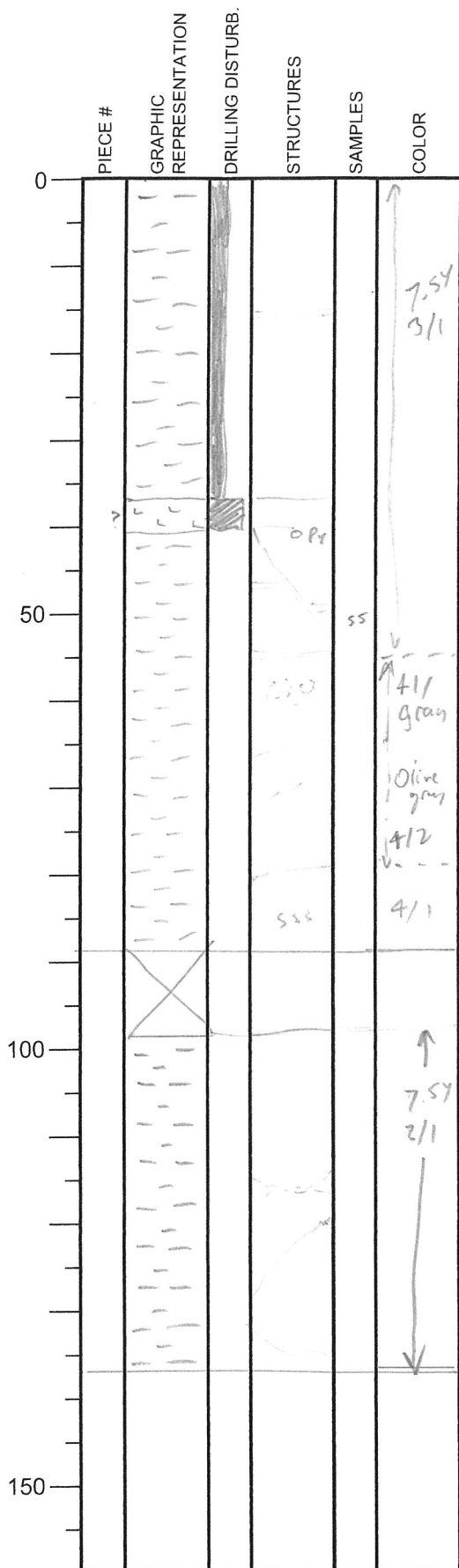


OBSERVER: Jordan Nicholson

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 16/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 32K
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

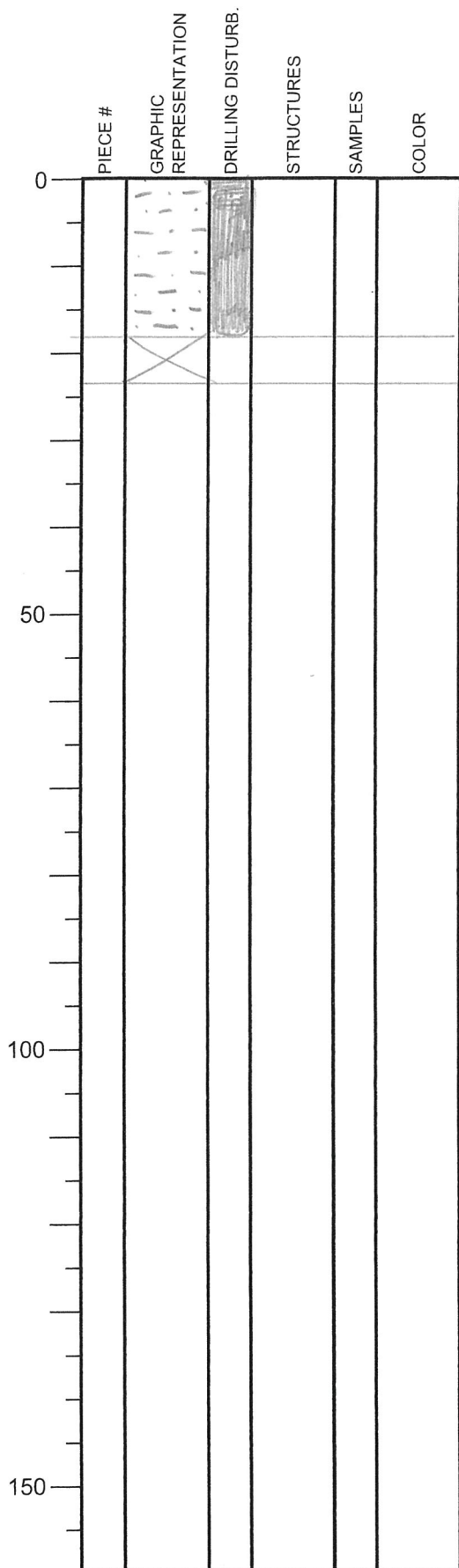
OBSERVER: Virdean Niddson

NO.
DATE: 6/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 32h
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: Uirdea Nidelson

Silty mud, completely brecciated
by drilling

WR
- Base of core @ 23.5cm.



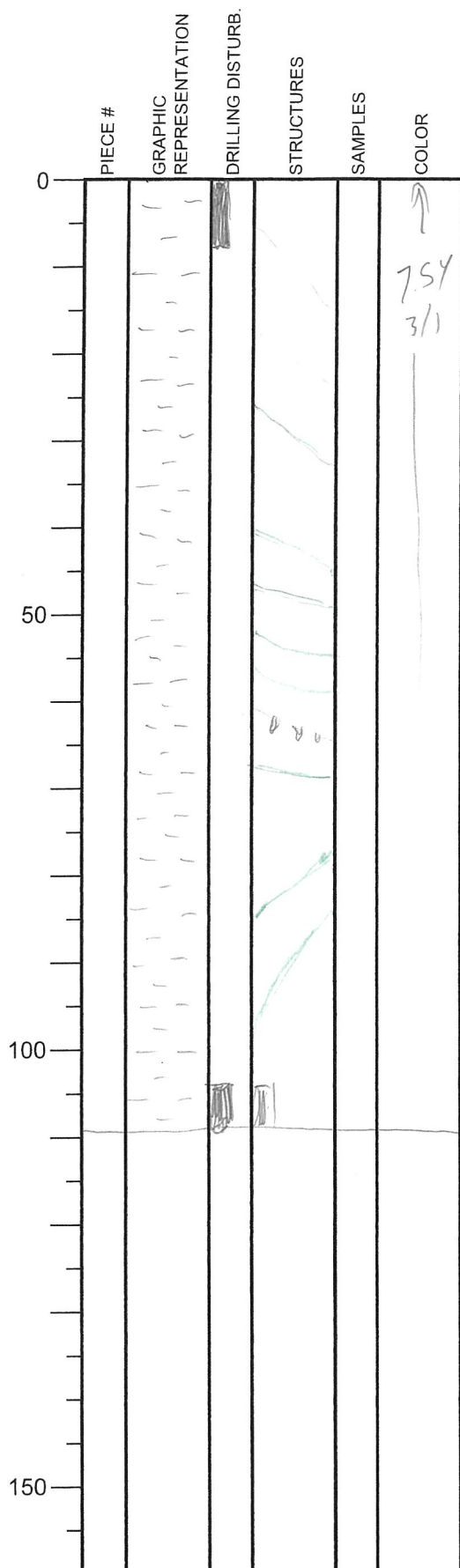
NO. 1
DATE: 16/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 33K
SECTION: 1
TOP DEPTH (m CSF):

VCD sheet 160629

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 16/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 33k
 SECTION: 2
 TOP DEPTH (m CSF):



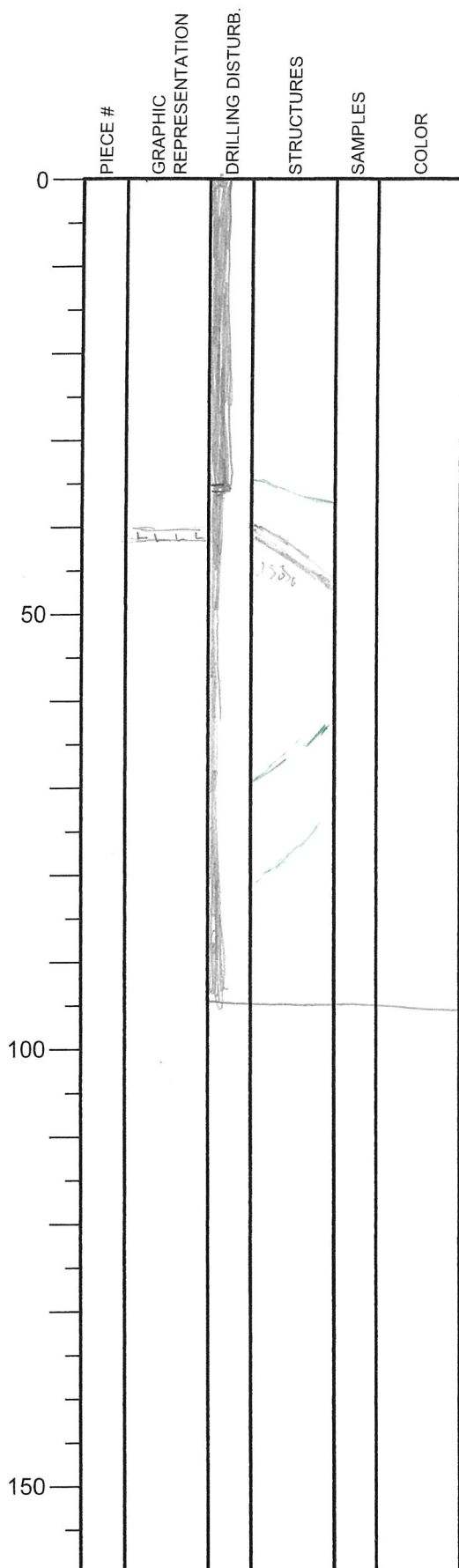
SECTION DESCRIPTION

OBSERVER:

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 16/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 33k
 SECTION: 3
 TOP DEPTH (m CSF):



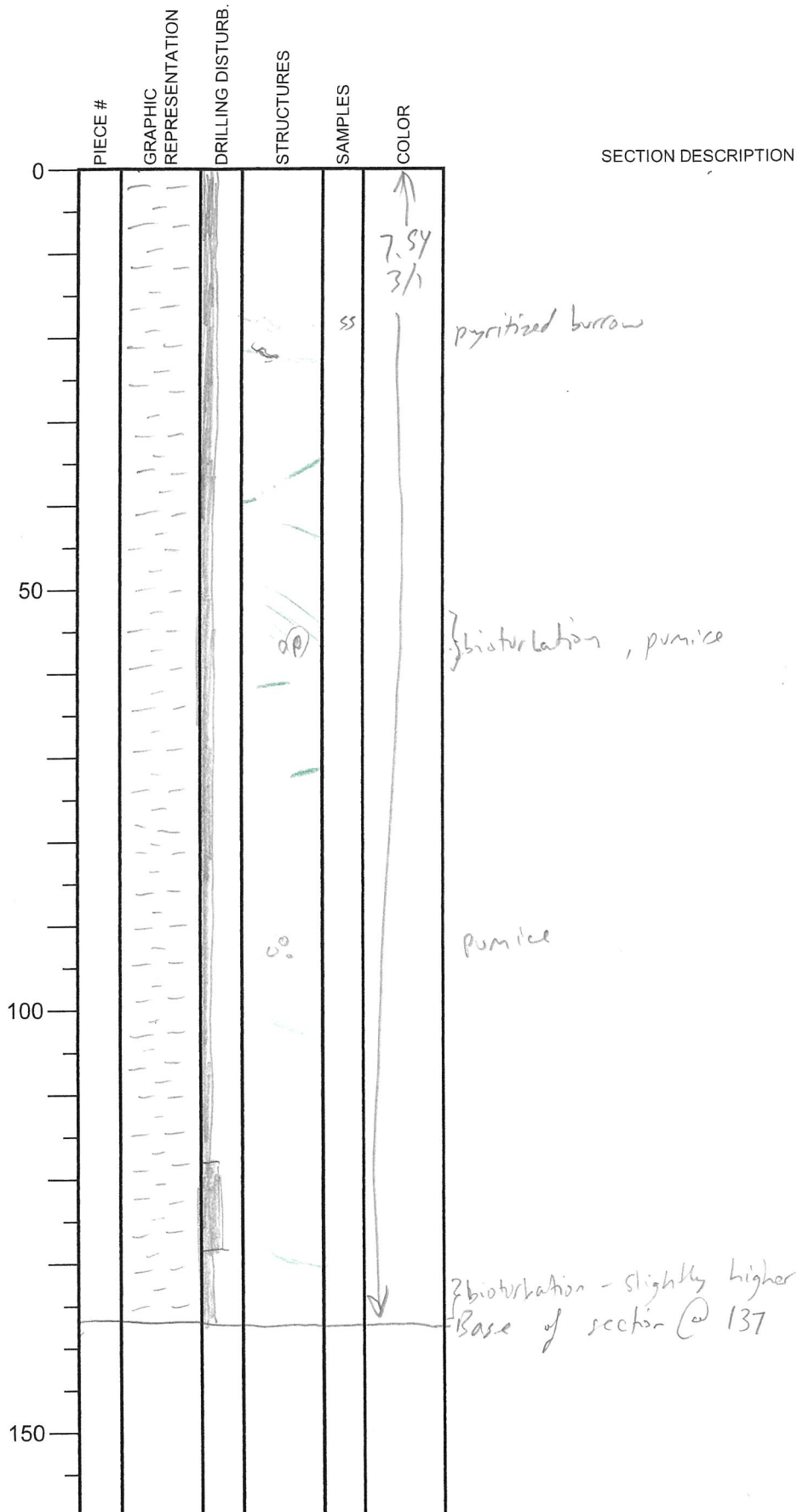
SECTION DESCRIPTION

OBSERVER:

International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 16/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 33K
 SECTION: 4
 TOP DEPTH (m CSF):



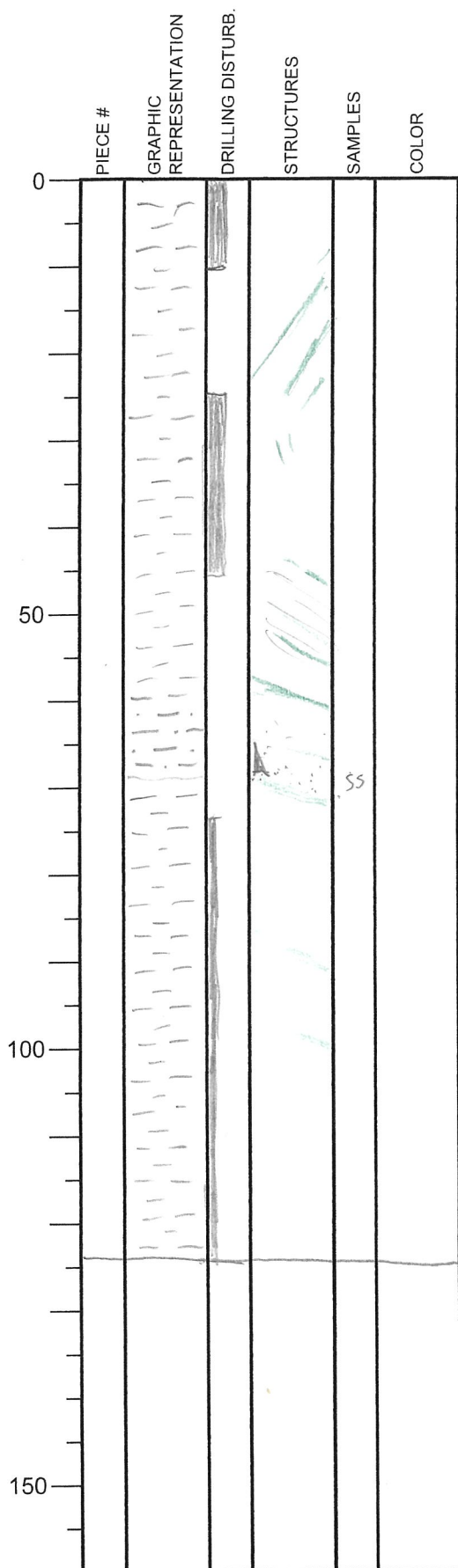
OBSERVER:

Note: change in dip direction may be due to drilling

International Ocean Discovery Program

Visual Core Description

NO. 5
 DATE: 16/01/2025
 EXP: 405
 SITE/HOLE:
 CORE: 33K
 SECTION: 5
 TOP DEPTH (m CSF):

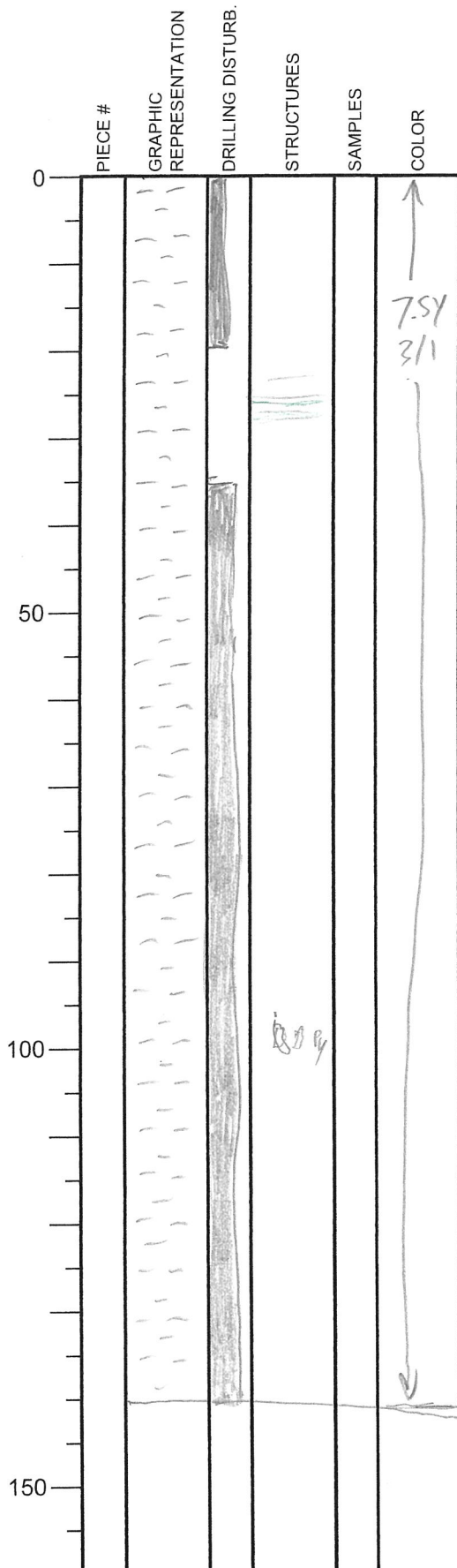


SECTION DESCRIPTION

OBSERVER:

International Ocean Discovery Program Visual Core Description

NO. 6
DATE: 16/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 3SK
SECTION: 6
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

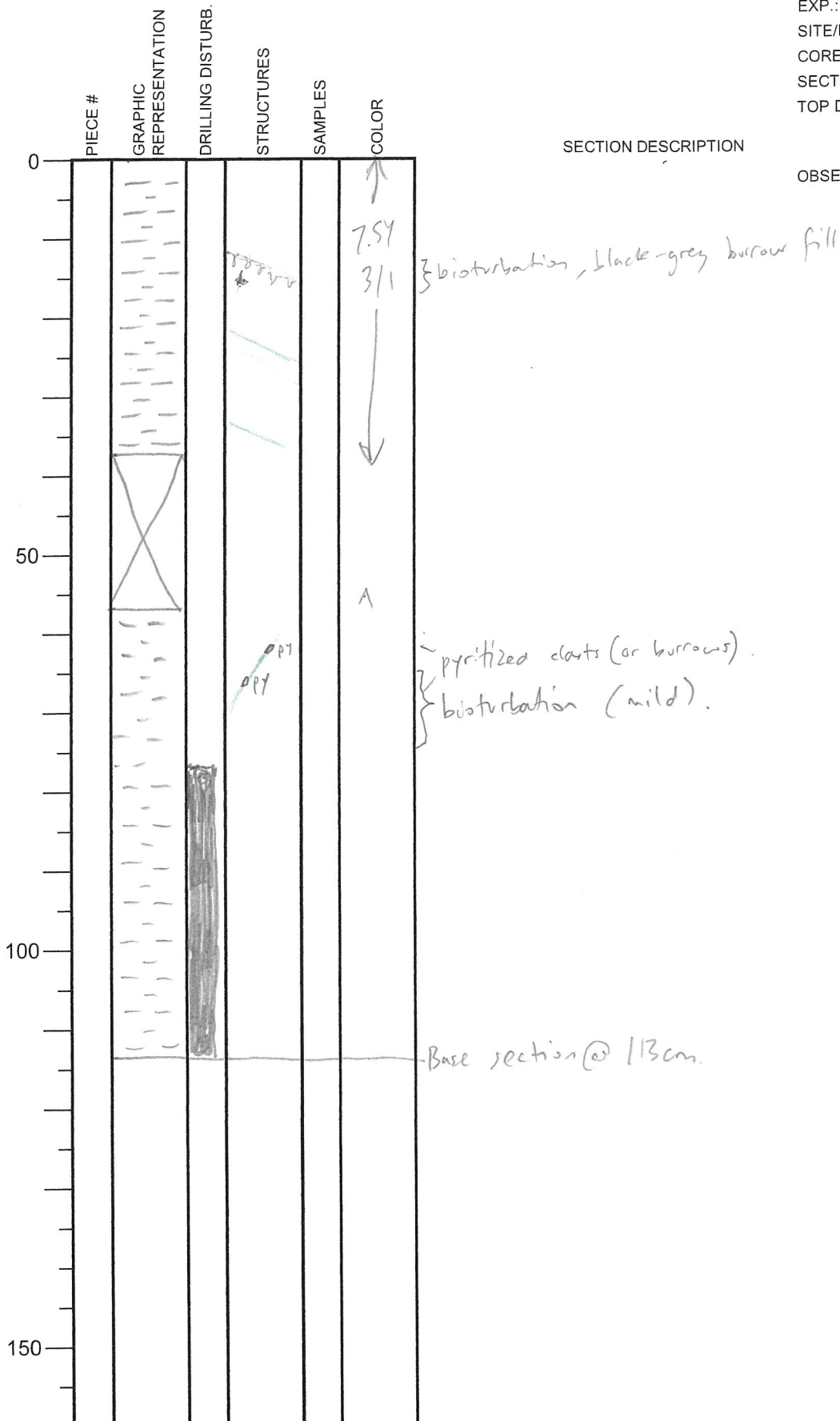
Gray-green Banded, olive black mudstone
heavily brecciated by drilling

- pyritized burrow

Base of section @ 140cm.

International Ocean Discovery Program Visual Core Description

NO. 7
DATE: 16/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 33K
SECTION: 7
TOP DEPTH (m CSF):

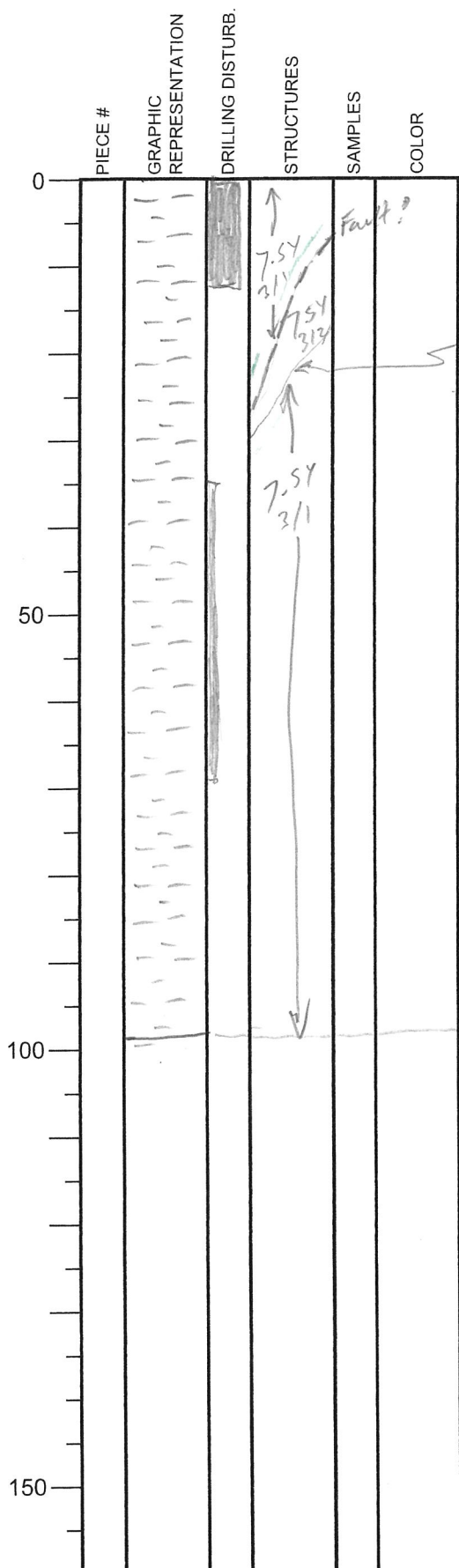


SECTION DESCRIPTION

OBSERVER:

International Ocean Discovery Program Visual Core Description

NO. 8
DATE: 16/10/20
EXP.: 405
SITE/HOLE: C0019J
CORE: 33K
SECTION: 8
TOP DEPTH (m CSF):

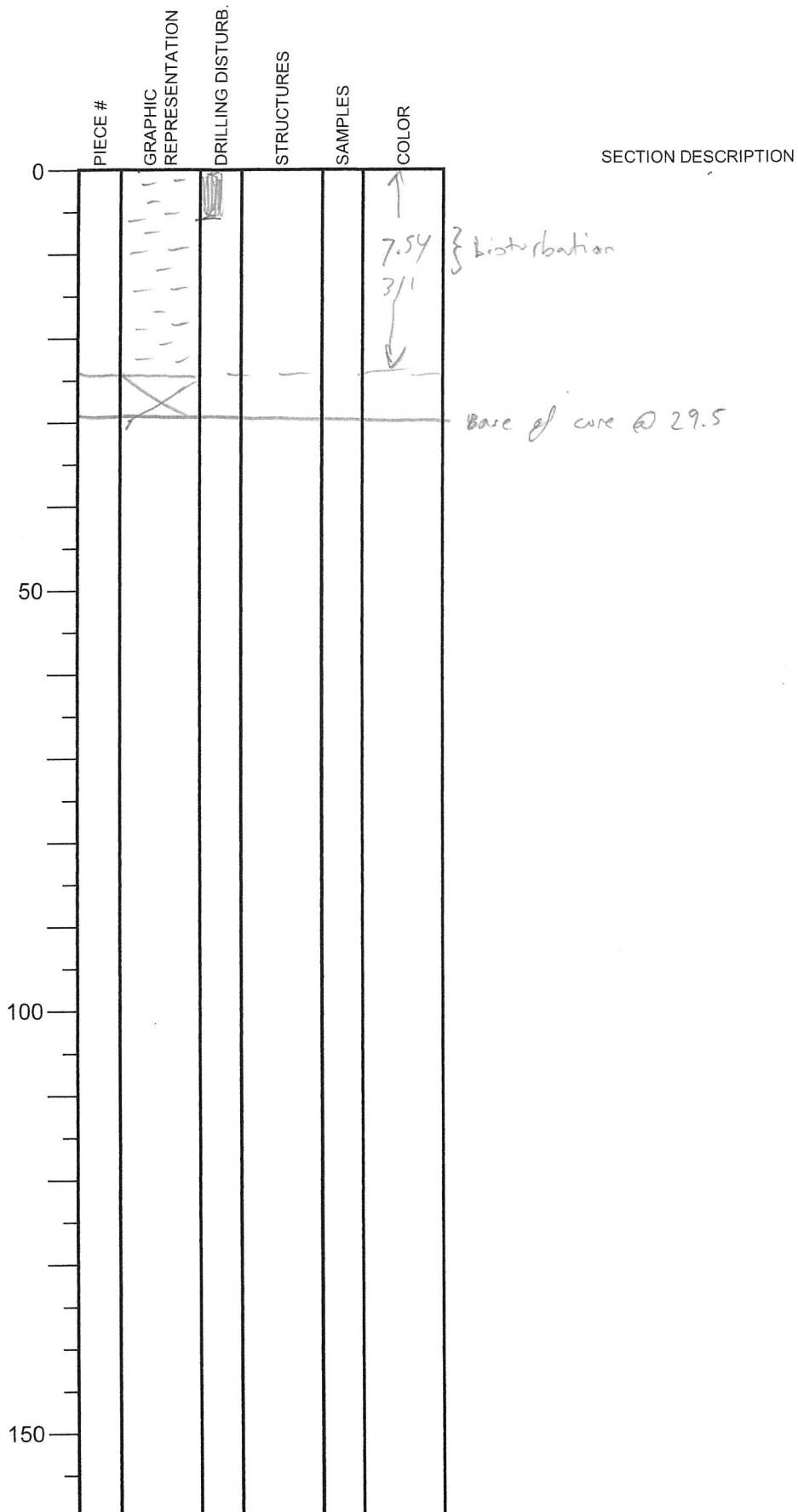


SECTION DESCRIPTION

OBSERVER:

International Ocean Discovery Program Visual Core Description

NO. 9
DATE 16/11/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 333K
SECTION: CC
TOP DEPTH (m CSF):



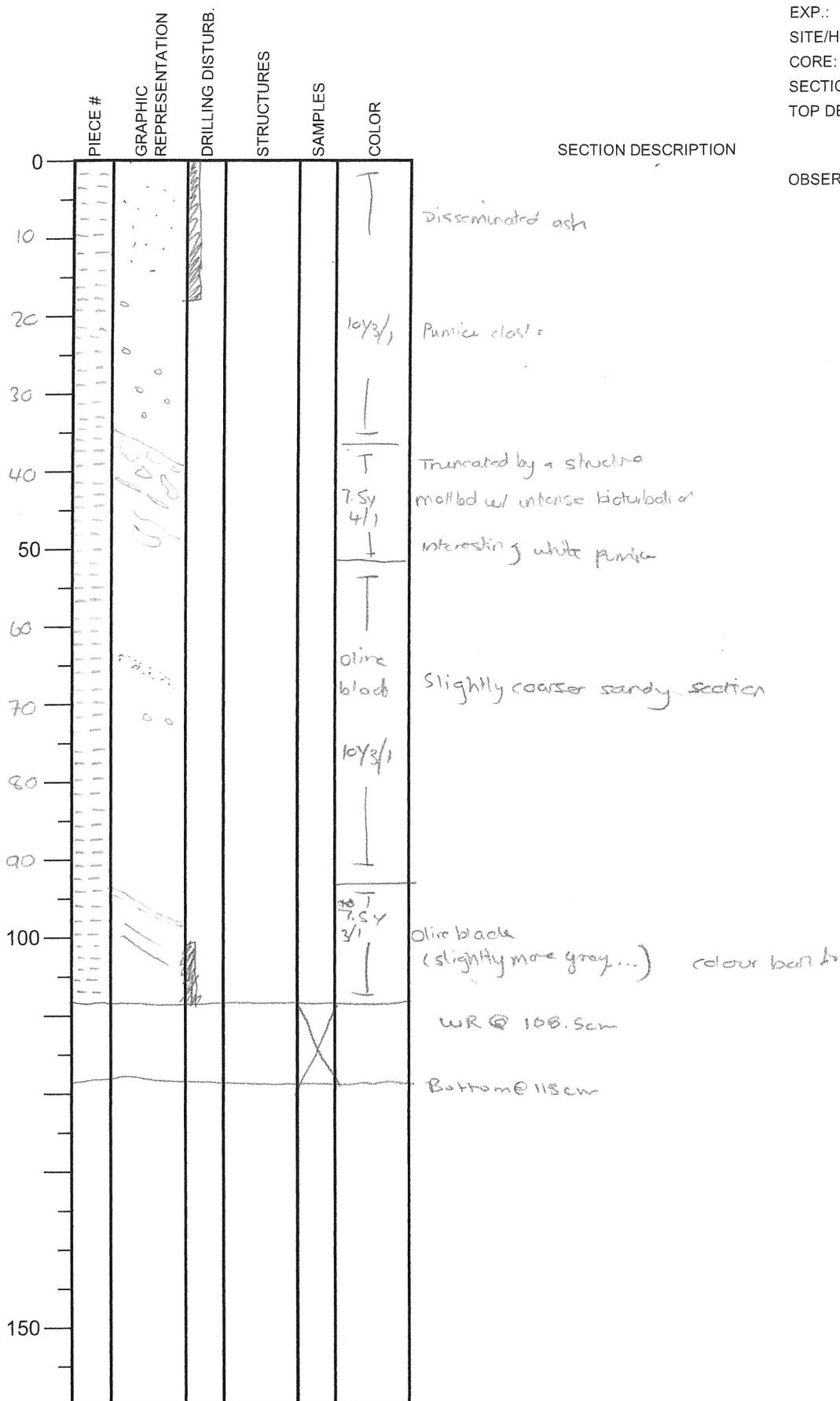
OBSERVER: U N

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 9/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 34K
 SECTION: 1
 TOP DEPTH (m CSF):

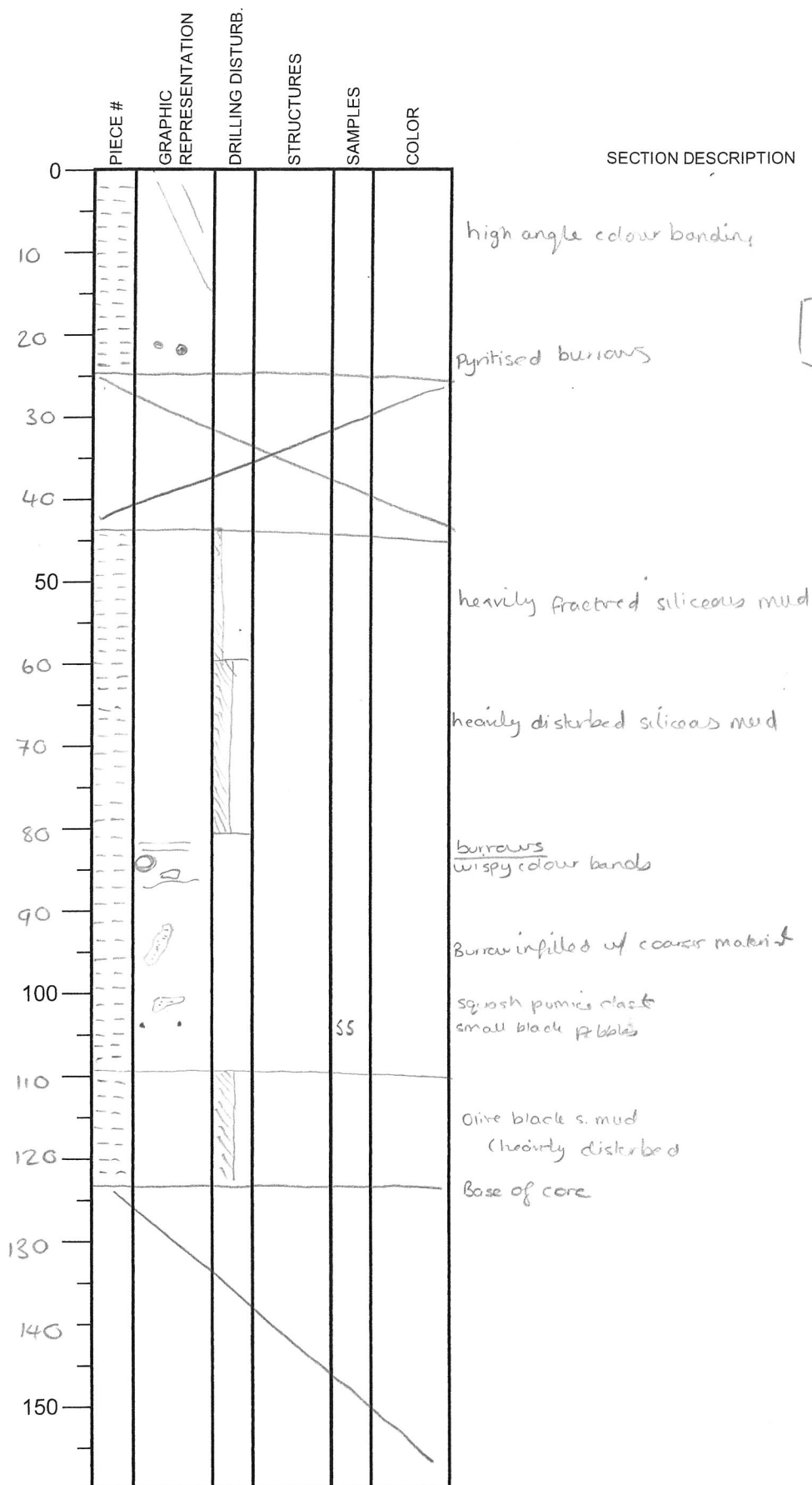
OBSERVER: René C



International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 17 / 10 / 20 24
 EXP.: 40 S
 SITE/HOLE: C0019J
 CORE: 34K
 SECTION: 2
 TOP DEPTH (m CSF):



OBSERVER: Amy G

olive black siliceous mud

International Ocean Discovery Program

Visual Core Description

NO. 3

DATE: 17/10/2024

EXP.: 405

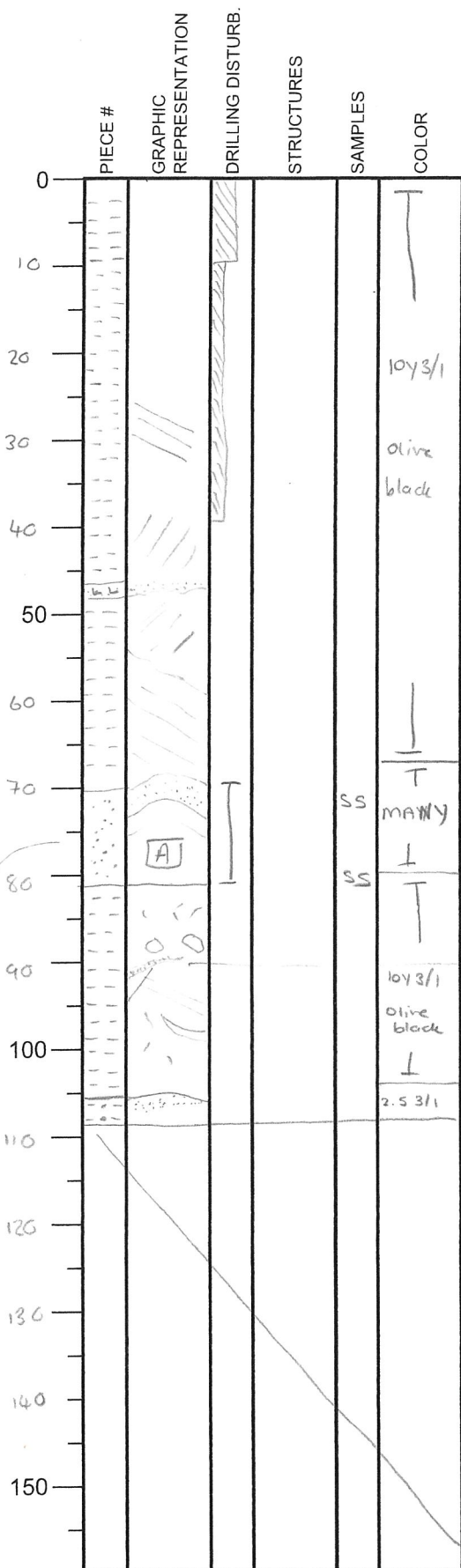
SITE/HOLE: C0019 J

CORE: 34k

SECTION: 3

TOP DEPTH (m CSF): —

OBSERVER: Amy



SECTION DESCRIPTION

Soupy

Really excellent

olive black mud with a very cool slump feature

colour bands

high angle colour band

coarser ashy layer

colour banding changes direction

colour banding → faulted (see structure)

slightly darker grey fine grained sand

highly micaceous fine grained sand

Pumice (almost scoria) clasts

squashed pumice

Full of wispy dark seams.

Lens (? clast) siltstone

brown

sediment deformation

squashed pumice

mud w/ disseminated sand throughout

encapsulated in mud

squashed pumice @ top

highly micaceous fine grained sand

mud w/ disseminated black clasts

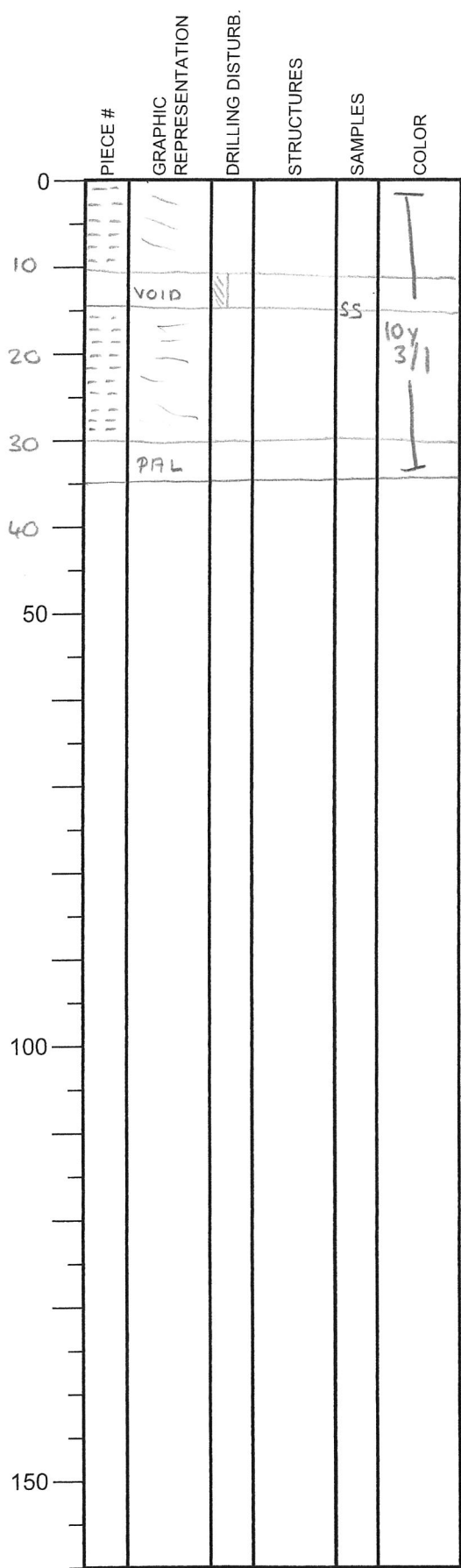
mud

34k 3

81.5 cm

International Ocean Discovery Program
Visual Core Description

NO. 4
DATE: 17/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 342
SECTION: CC
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Amy

Still slumped
w/ lots of
displaced dark
seams
olive black siliceous mud
BASE OF SECTION

NO. 1
DATE: 17/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 35K
SECTION: 1
TOP DEPTH (m CSF):

OBSERVER: René Castello &
Amy Sensei

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					10Y (3/1)
50					
100					
150					

SECTION DESCRIPTION

Heavy disturbance $\rightarrow$ likely angular disintegrates

disseminated black rock

Color banding green-black

Intermixed ash squashed pumice clasts

dark flecks throughout

Lots of squashed clasts

hard to tell locatn of spill

Heavy disturbance $\rightarrow$ chunky, angular disaggregates
Runice in disaggregates

WR 6 (96-110cm)

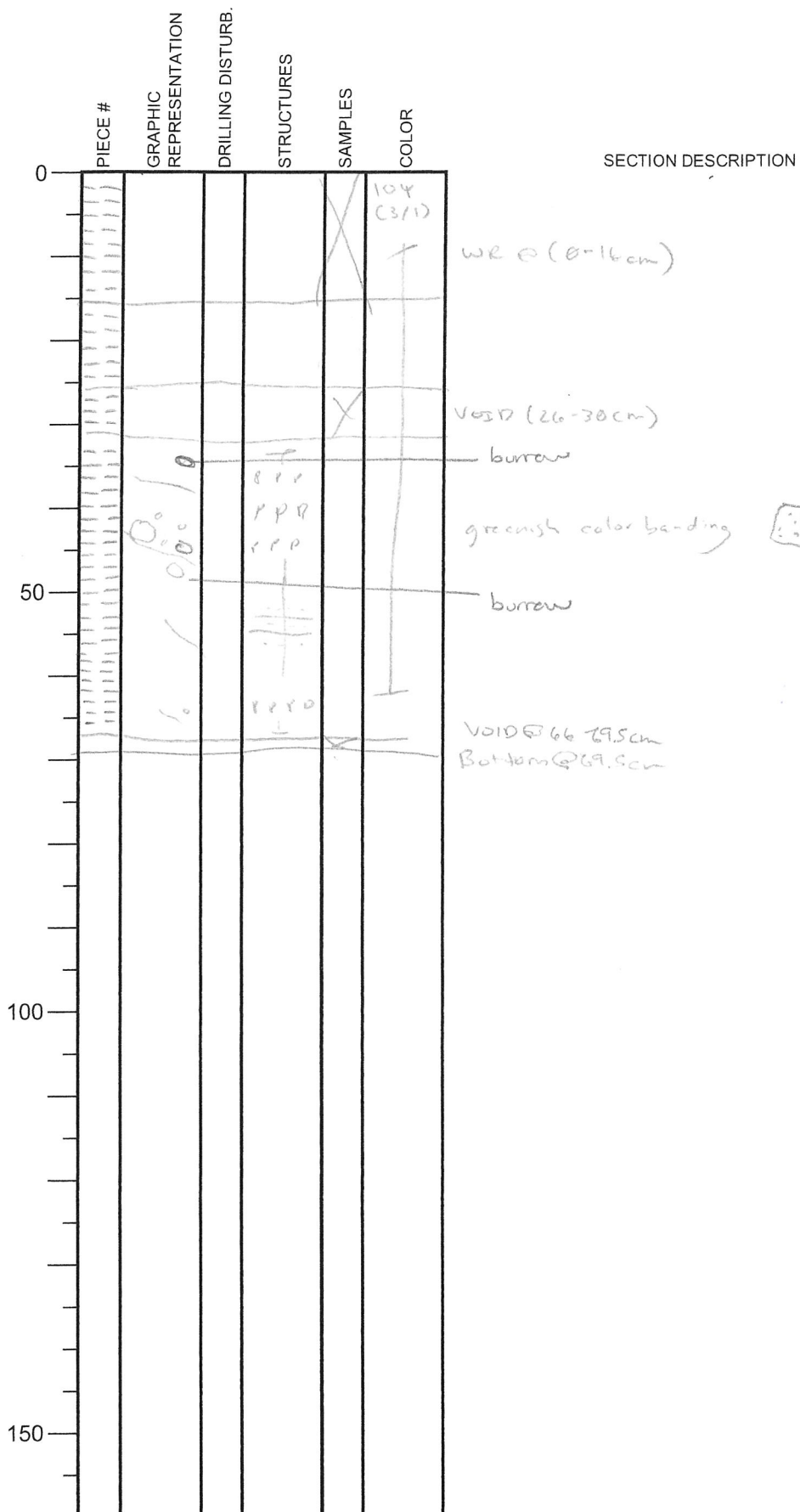
Bottom @ 118cm

olive black siliceous mud

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 7/10/2024
 EXP.: 405
 SITE/HOLE: C00119
 CORE: 405 35k
 SECTION: 2
 TOP DEPTH (m CSF):



OBSERVER: Rene Castillo & Amy ☺

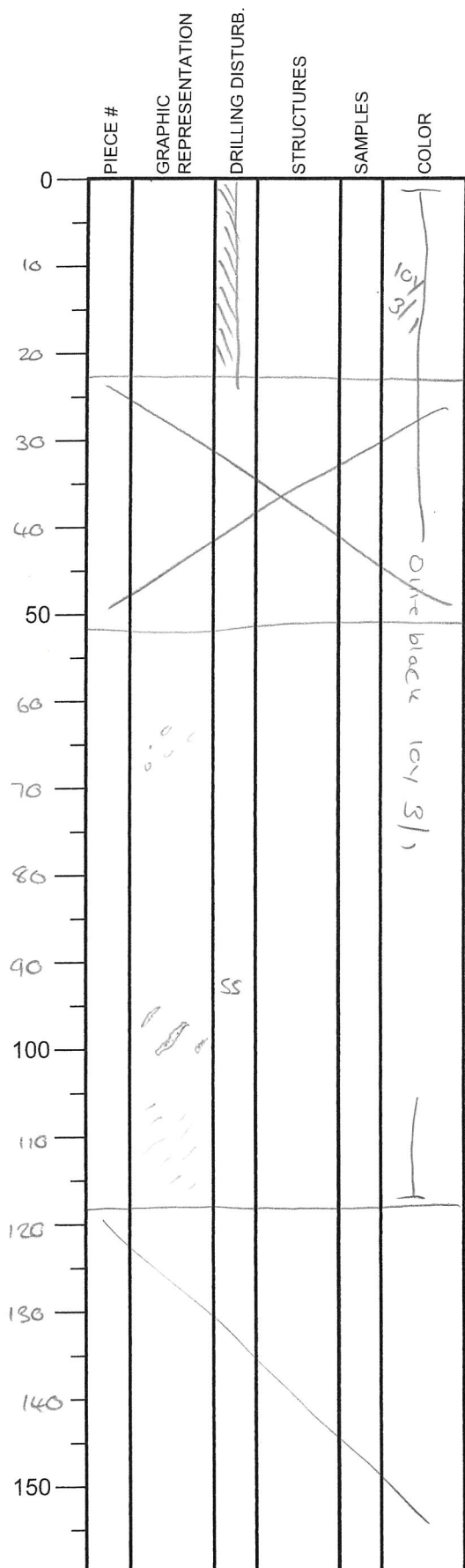
 very rectangular pumice

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 17 / 10 / 2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 3516
SECTION: 3
TOP DEPTH (m CSF): —

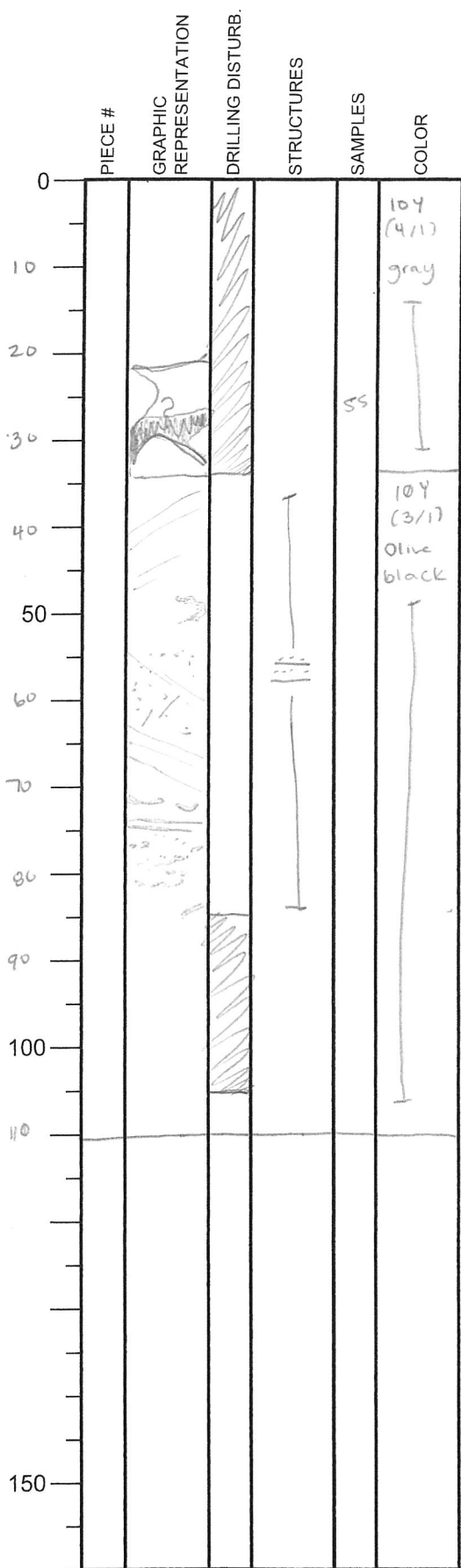
SECTION DESCRIPTION

OBSERVER: Amy Gough



International Ocean Discovery Program
Visual Core Description

NO. 4
DATE: 17/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 35K
SECTION: 4
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: René Castillo

* Muddy/ashy material, highly disturbed, 21-31 cm
Multicolored, green-black colorbanding, ashy base

ashy mud
SS @ 25cm

color banding

ash intermixed

11 @ 15cm

International Ocean Discovery Program
Visual Core Description

NO. 5
DATE: 7/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 35K
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					10Y (3/1)
10					Olive Black
20					
30					
40					
50					
100					
150					

SECTION DESCRIPTION

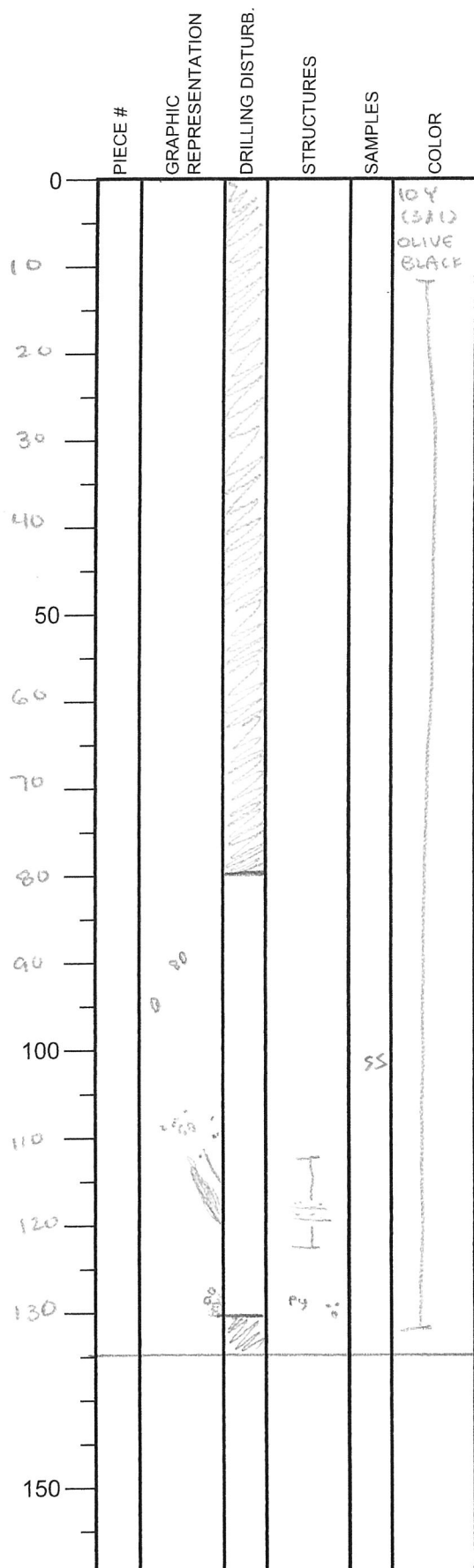
OBSERBER: René Castillo

*Olive black highly disturbed mud

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 7/10/2024
 EXP.: 405
 SITE/HOLE: C00193
 CORE: 36K
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: René Castillo

OLIVE BLACK mud with mottled texture, moderately drilling disturbance and pyritized pebbles. Color banding (green/high angle) @ base.

pyritized pebbles (87-94cm)

black patches

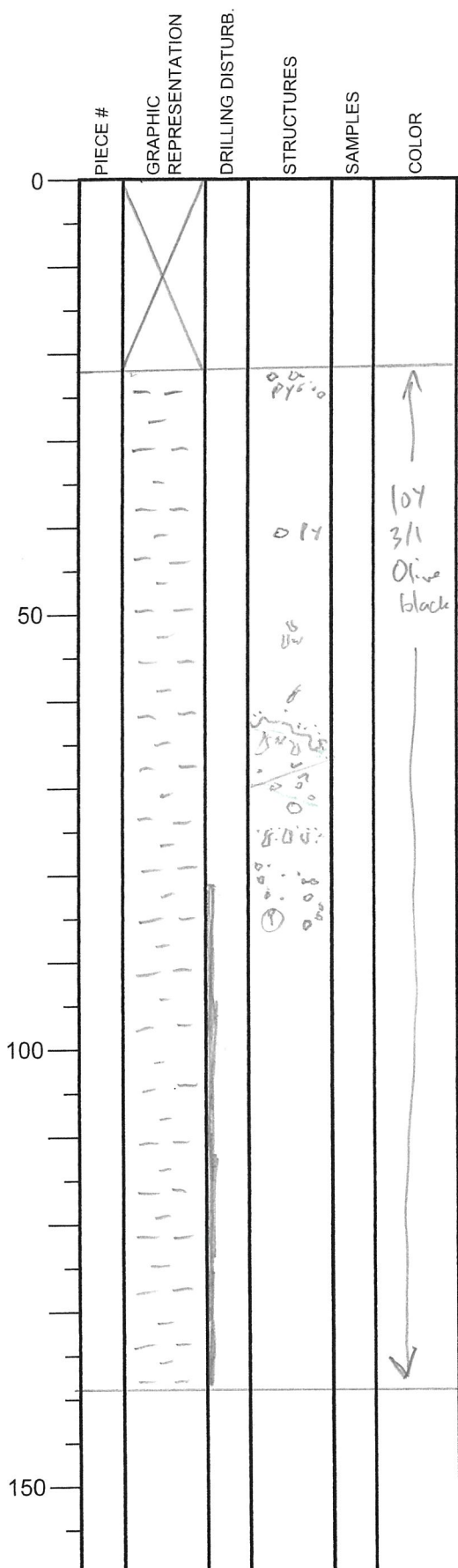
High angle green banding (113-120cm)

pyritized pebbles (127-130cm)
 ash

Base @ 135 cm

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 17/11/2024
EXP.: 405
SITE/HOLE: C0099J
CORE: 36K
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Viduan Nicholson

↑ pyritized clasts(?)

pyritized pumice, probably burrow

burrow

burrowed layer, slightly siltier, abundant black grains in burrows.

abundant pumice granules.

burrowed layer, as above

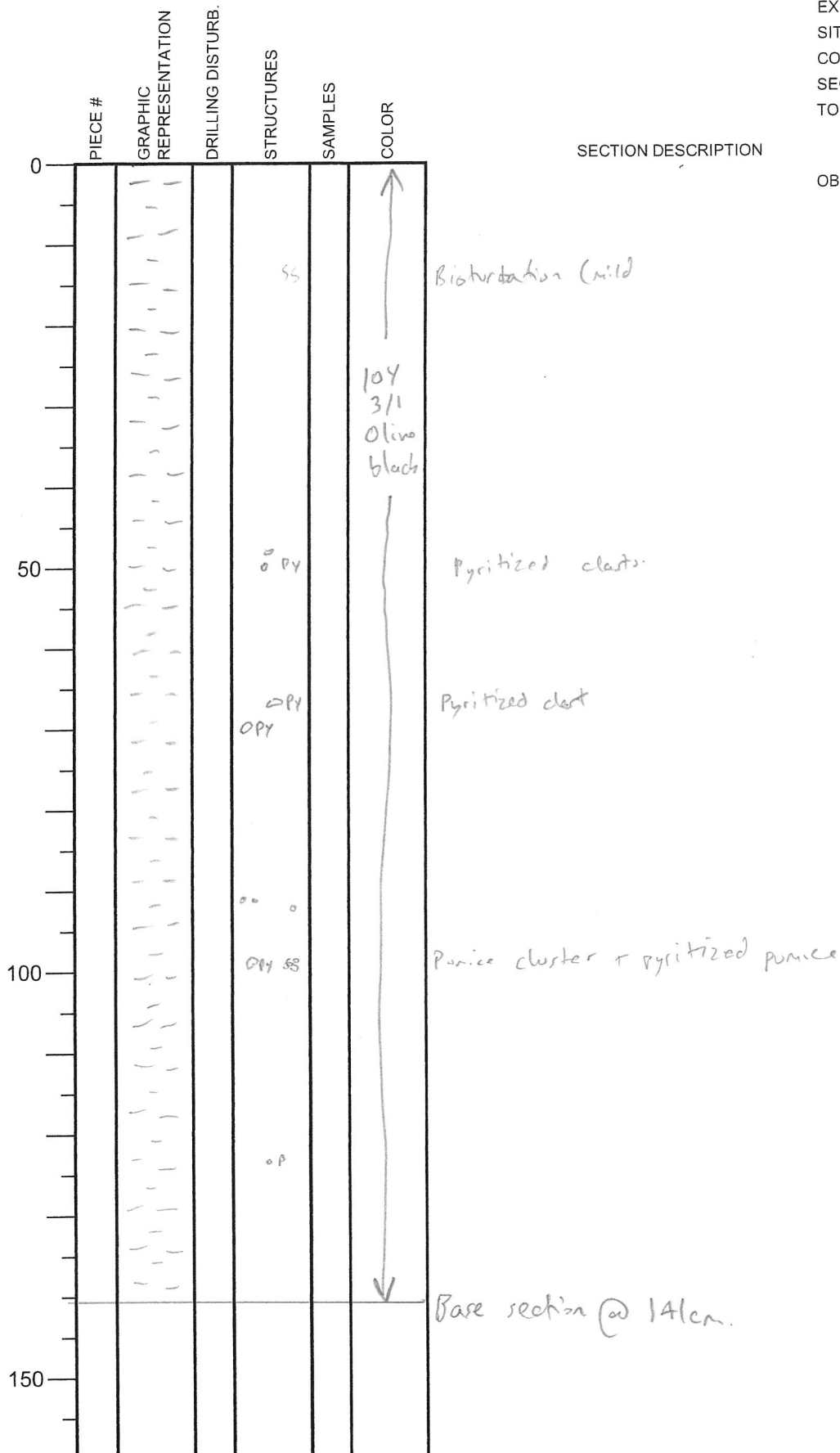
abundant pumice clasts.

moderately fractured. Few obvious red structures.

base of section @ 138 cm

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 17/10/2021
EXP.: 405
SITE/HOLE: C0019J
CORE: 36K
SECTION: 3
TOP DEPTH (m CSF):



OBSERVER: Kidean Nicholson

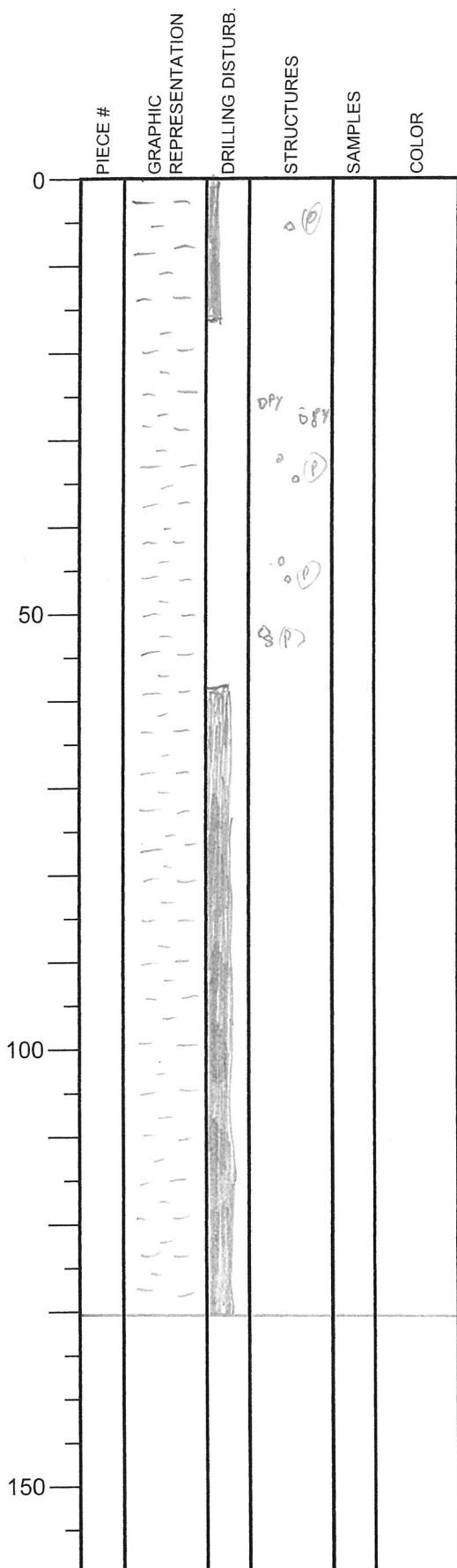
Olive black mudstone
with variable amount of
pumice
clasts

International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 17/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 36K
 SECTION: 4
 TOP DEPTH (m CSF):

OBSERVER: Ulfarur Nicholson



SECTION DESCRIPTION

pumice clasts (some pyritized)

pumice clasts

heavily brecciated by drilling. No obvious sed structures.

Base of section @ 130.5cm.

NO. 5
DATE: 12/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 36K
SECTION: 5
TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURBANCE	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0							
50							
100							
150							

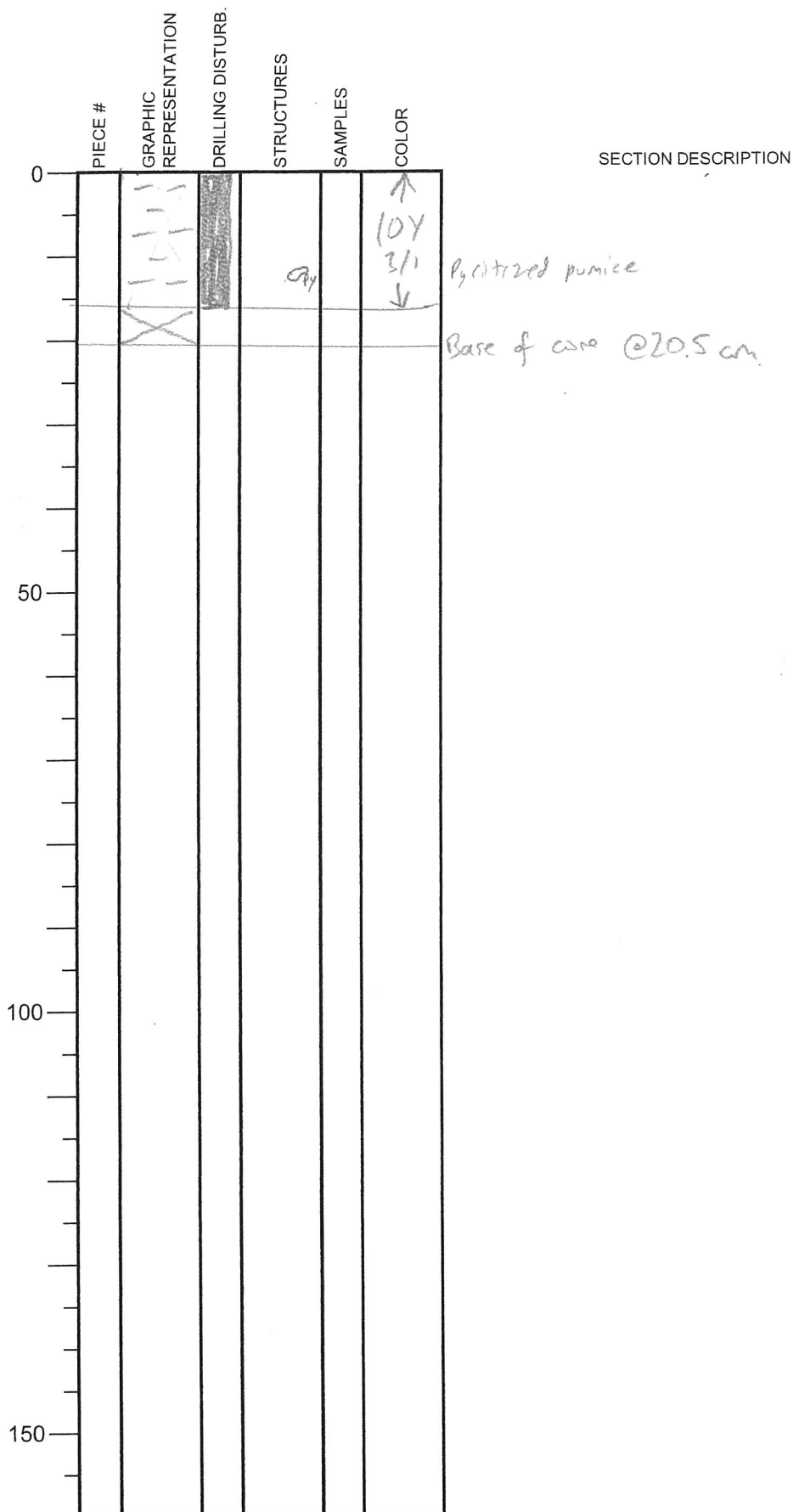
Handwritten notes:

- Bioturbation 48-52 cm
- Pyritized pumice clasts
- Pumice
- Base of section @ 147.5 cm.

International Ocean Discovery Program

Visual Core Description

NO. ~~6~~
 DATE: 17/10/2024
 EXP.: 405
 SITE/HOLE: 200195
 CORE: 36K
 SECTION: CC
 TOP DEPTH (m CSF):

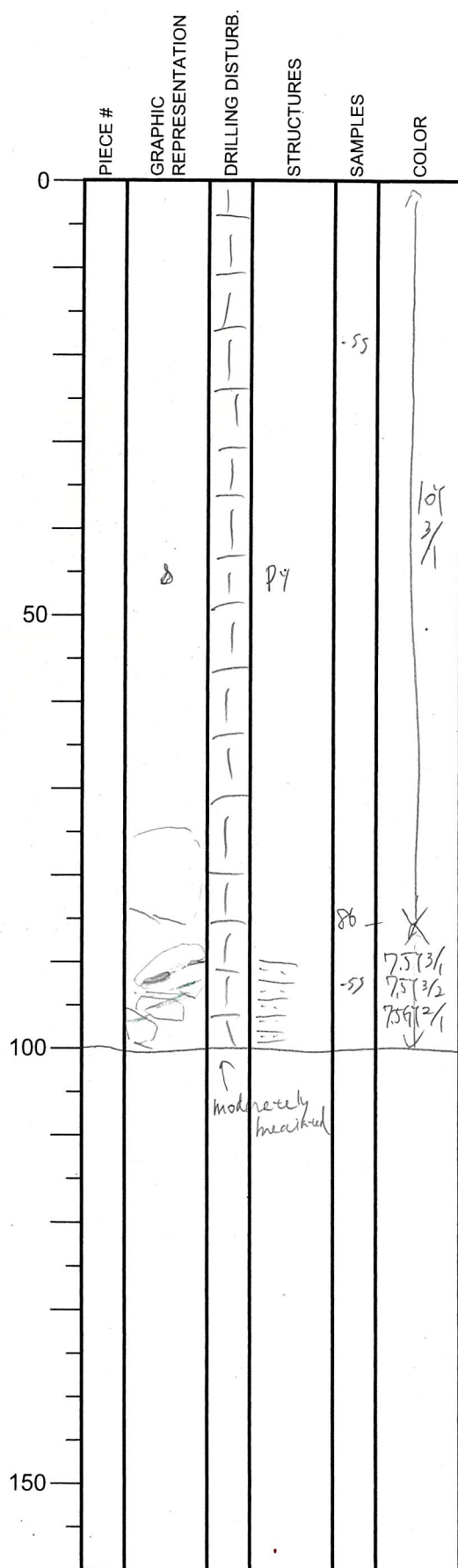


OBSERVER: Uisdean Nicholson

International Ocean Discovery Program Visual Core Description

NO.
DATE: 17/11/2024
EXP.: 405
SITE/HOLE: C0019 J
CORE: 37K
SECTION: 1
TOP DEPTH (m CSF):

J



SECTION DESCRIPTION

OBSERVER: Asuka

Lithology
0-86 cm: silty claystone (10 3/1 olive black)
86-100 cm: clayey siltstone (7.5 3/1 olive black)
90-98 cm: color banding

Sed. struct.
90-98 cm: color banding of 7.5 3/1 olive black, 7.5 2/1 (black, silt to v.f. s), 7.5 3/2 olive black, 7.5 2/1 greenish black layers.

44.5-45.5 cm: pyrite clast.

Samples:
ss from 17 cm (representative)
93 cm (silty part)

100 cm: section end.

* AT would like to use "silty claystone" rather than "silty clay", because
1. Brittle fractures develop throughout the core.
2. Technicians used a band saw to split the core. In Hole C0019M they only used wires.

丁

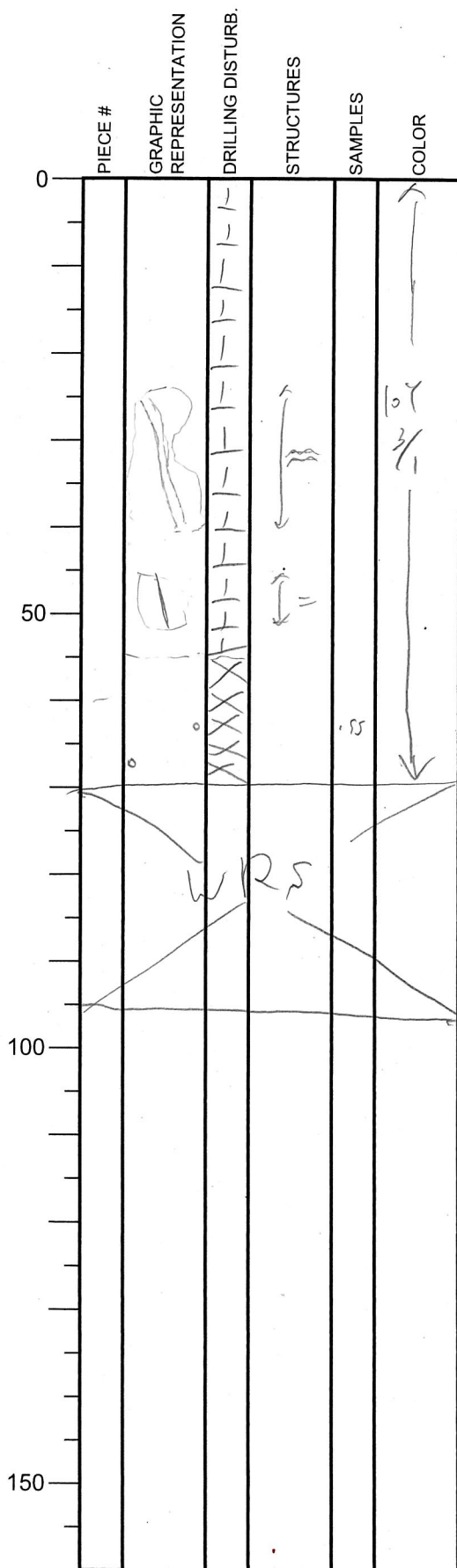
OBSERVER: Asuka

VCD_sheet 160629

International Ocean Discovery Program Visual Core Description

NO.
DATE: 17/11/2024
EXP.: 405
SITE/HOLE: Coo19J
CORE: 31K
SECTION: 3
TOP DEPTH (m CSF):

J



SECTION DESCRIPTION

OBSERVER: Asuka

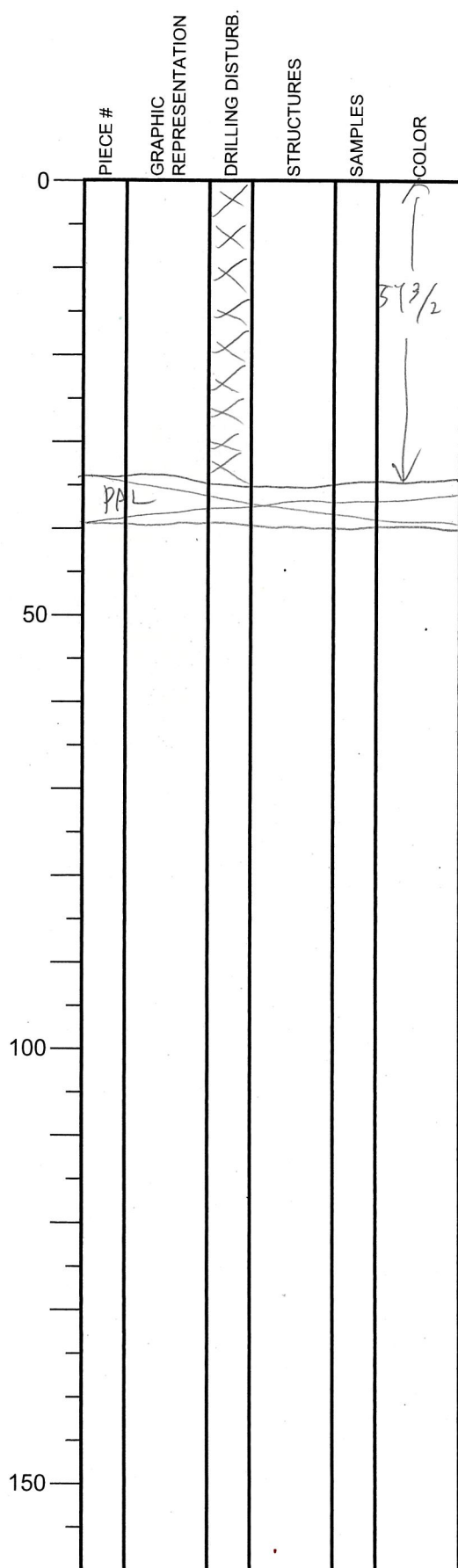
- * Drilling disturbance
Moderate (0-55 cm)
Drilling breccia (55-70 cm) but low-angle planar structures can be observed in CT image.
Could be originally dismembered
- * Lithology:
Silty claystone (10Y 3/1 olive black) 0-70 cm.
- * Sed. struct.
Wavy bedding @ 24-39 cm, steep
Planar bedding @ 46-52 cm, steep.
Bed ends
- * ss from 63 cm: mineral vein?
requested by Structure team.
- 95 cm: section end

International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 17/11/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 37K
SECTION: CC
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Asuka

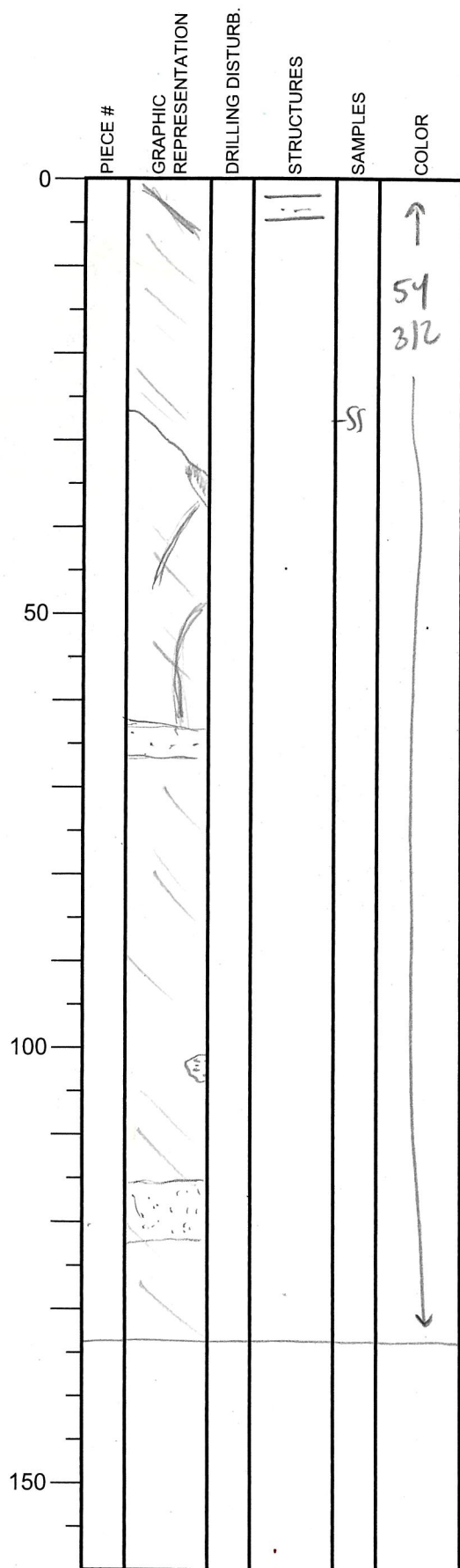
- * Drilling disturbance: Drilling breccia (0-34cm)
 - * Lithology: Silty clay (5Y3/2, olive black)
 - * No Sed. structure
- Stone

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 7/11/2024
EXP.: 405
SITE/HOLE: C0019 J
CORE: 33k
SECTION: 1
TOP DEPTH (m CSF):

J



SECTION DESCRIPTION

OBSERVER: Morgan

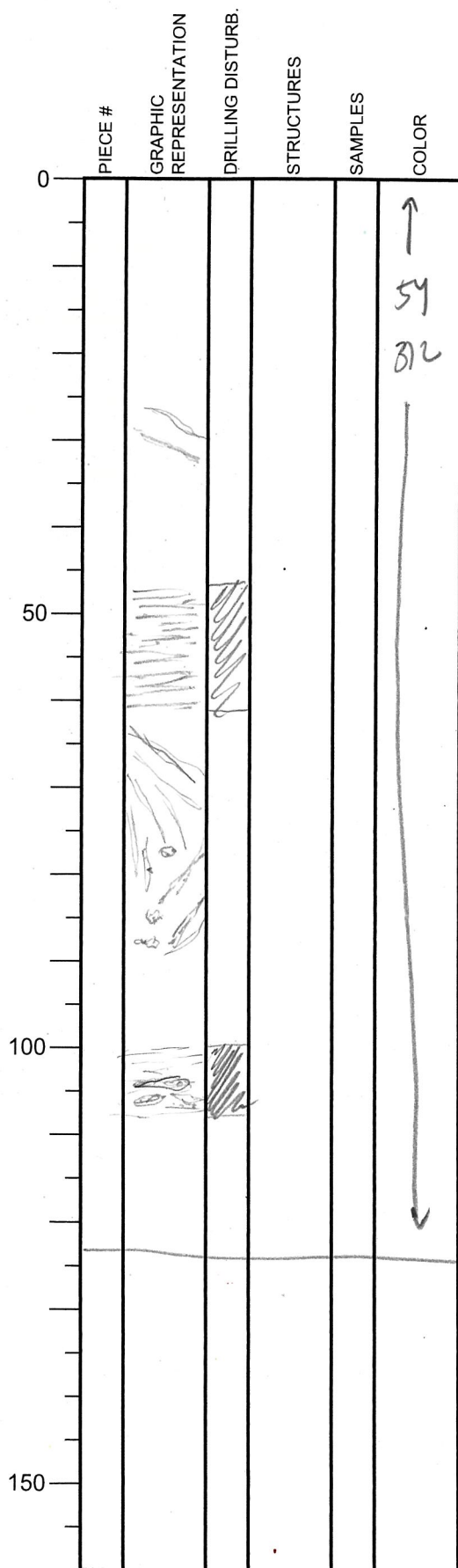
- ✓ Olive black, silty clay (54 3/2)
 - ✗ Ash layer, whitish (silty)
 - └ [64-66 cm]
 - ✗ Highly/disrupted by drilling disturbance fractured
 - ✗ VF sandy interval, dark
 - └ [115-122 cm]
 - └ [102-103 cm]
 - ✗ Color banding, subvertical
 - └ [62-50]
 - └ [47-38]
 - └ [6-3]
 - ✗ SS (30 cm)
 - Summary
 - ↳ ✗ Olive black silty-daystone
 - ✗ with color banding steeply dipping
 - ✗ highly fractured & interbedded ash layer
- 134.5 m: end of section

International Ocean Discovery Program Visual Core Description

J 8

NO.
DATE: 17/11/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 38k
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER: Morgan



SECTION DESCRIPTION

- x Olive black (59 312) silty clay.
- x Ash layer/patches, highly deformed, whitish
 - ↳ (66-95)
 - ↳ (98-110)
- x Two intervals highly fractured (co?)
 - ↳ (78-105)
 - ↳ (48-60)
- x Dark Silty deformed patches
 - ↳ (18-21)

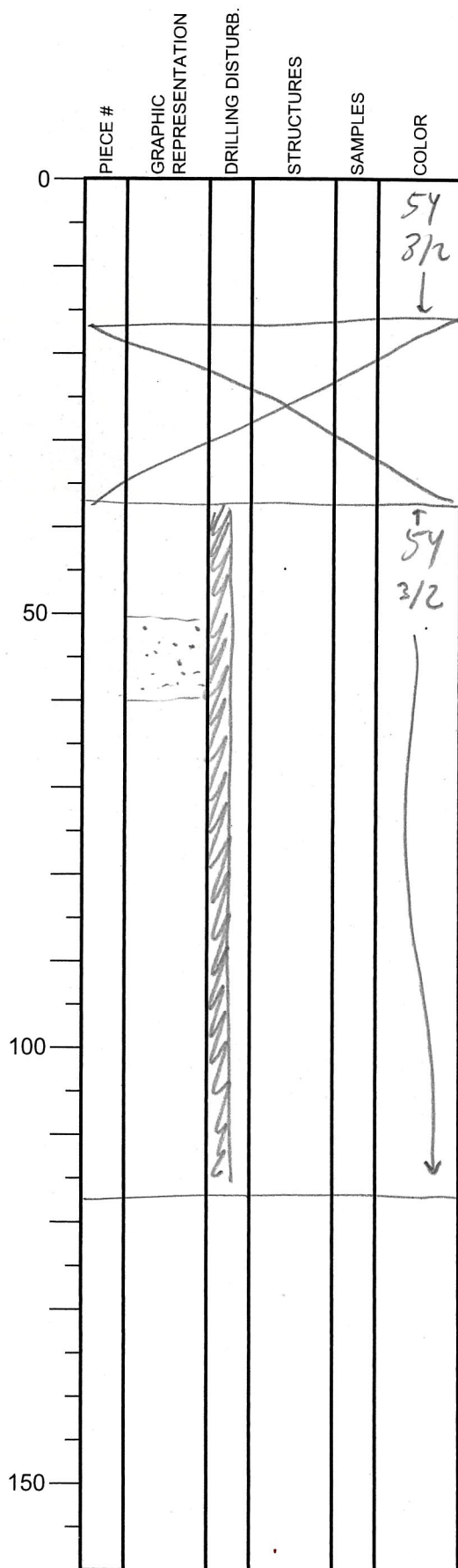
SUMMARY

- x Olive black silty-daystone
 - x Highly fractured and deformed
 - x with ash ^{whitish} patches deformed & dark silt patches
- 123.5 cm: end of section

International Ocean Discovery Program

Visual Core Description

NO.
 DATE: 17/11/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 384
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Morgan

< Olive black silty-day
 (54 3/2)
 < highly fractured (CD-induced?)
 (IN + WR.) (37-117)

+ Dark fine sand layer
 (52-60).

Summary

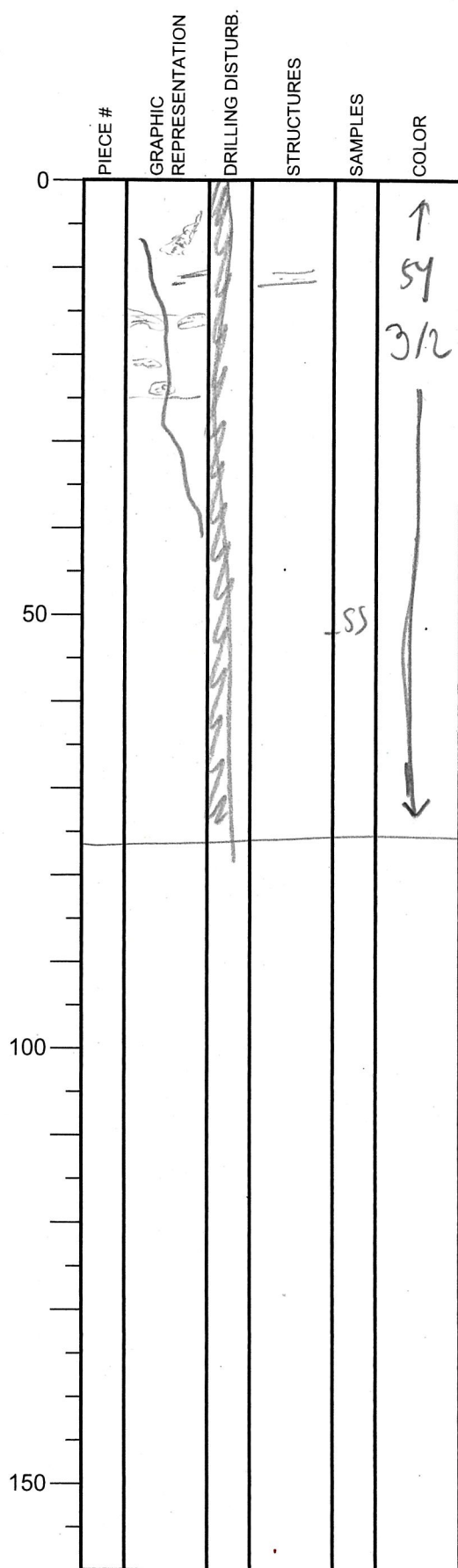
< Olive black silty. daystone
 < highly fractured
 < with fine sand layer

117.5cm: end of section

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 17/11/2024
EXP.: 405
SITE/HOLE: COO19J
CORE: 38K
SECTION: 9
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Morgane

× Olive black (54 8/2) silty claystone

× A82 layer/patches

↳ [7-12]

↳ [14-15]

↳ [19-24]

× Highly fractured → drilling disturbance mainly.

× SS (50)

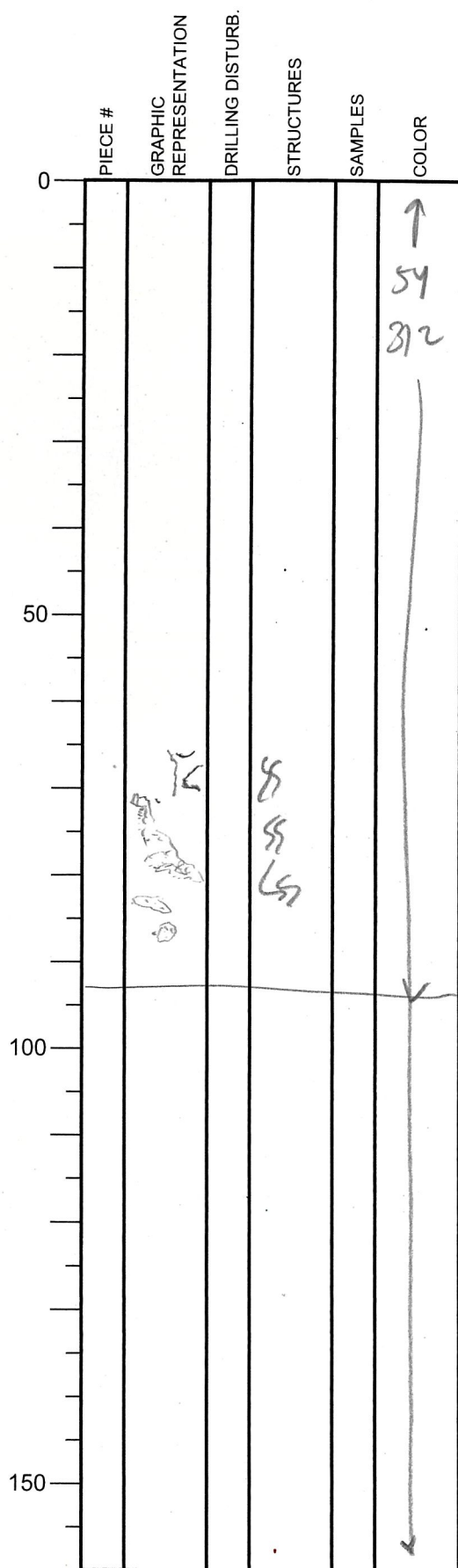
75.5 cm: end of section

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OBSERVER:

Yozane

SECTION DESCRIPTION



- × Olive black, silty-darstone
- × Ash layer/patches, highly deformed
silt L [70-86] / lenticled.
- × Sand-filled burrows → high-density (XT)
L [68-71]
- × Highly fractured : drilling disturbance
rarely.

93.5 cm: End of section

J

OBSERBER: *V. Organe*



Drilling breccia

Silty - daystone (54 212)

× PAL (20.5 - 25.5)
25.5cm : end of section

2. Silty claystone highly disrupted by DD.
No structure

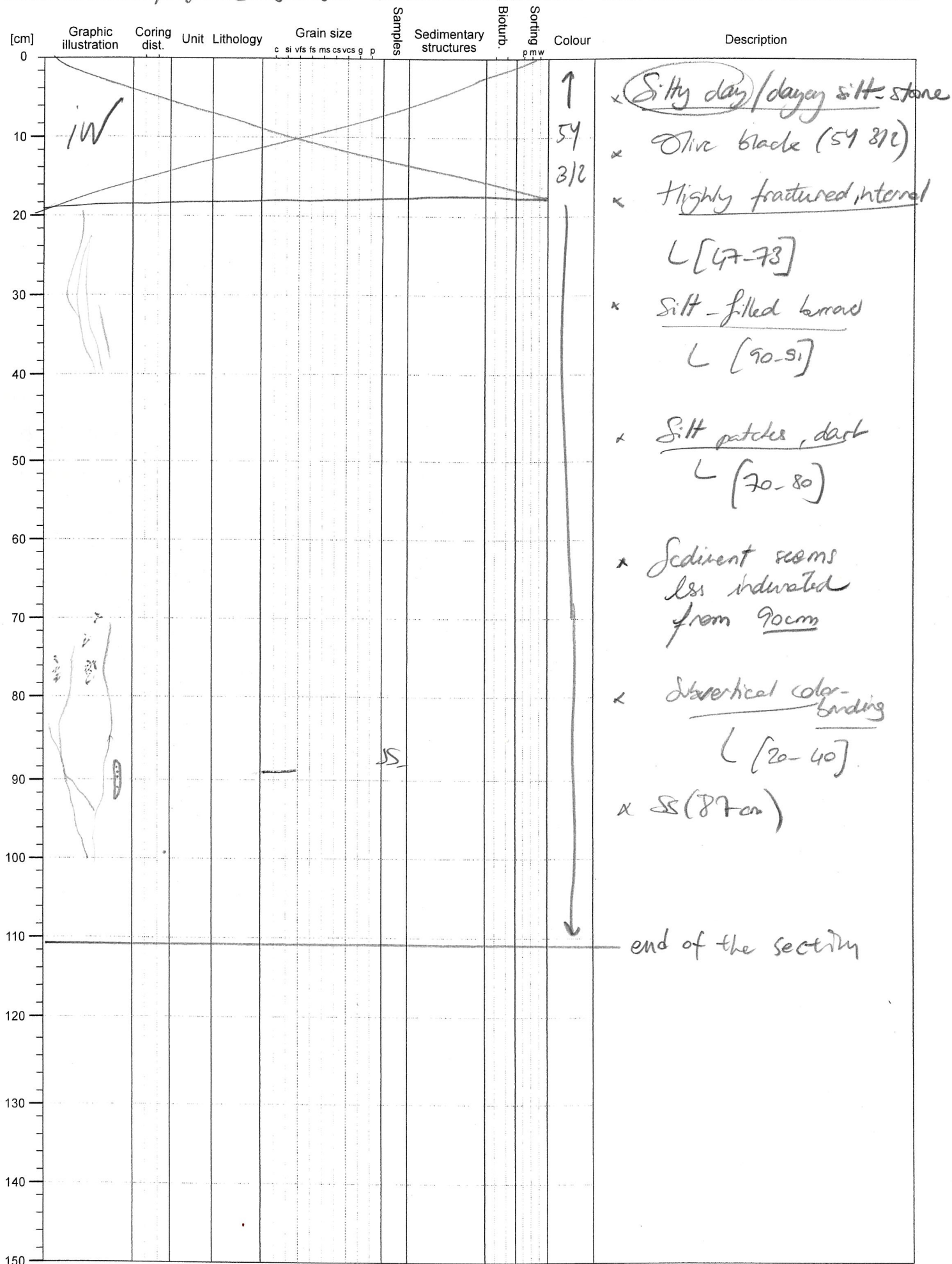
Exp. 405	Site C0019	Hole J	Core 39K	Section 1
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[illegible]

Date 18/11/2024 Observer Jorgane & Jimmy

VISUAL CORE DESCRIPTIONS

Exp. 405 Site 00019 Hole J Core 39K Section 2



5

OBSERVER: Asuka

* Drilling disturbance: Slightly (0-94 cm)
* Bottomation: Slight (0-94 cm)
* Lithology: Silty claystone (0-99 cm)
olive black (7.543/1) to greenish black
(7.547²/1)
* Sed. struct & accessories:
• Color banding: 0-36 & 37-59 & 61-89 cm
very steep to vertical.
• Fining upward: 49-53 & 55-58 cm
top direction: left of AH surface
• Pyrite: 22.5-23.5 & 84-85 cm
• Pumice: 77.5-78.5 cm
• Burrow: 30.5-31.5 cm
94 cm:
section bottom

VCD sheet 160629

International Ocean Discovery Program

Visual Core Description

NO. 81112024
 DATE: 8/11/2024
 EXP.: 405
 SITE/HOLE: Coo195
 CORE: 40K
 SECTION: 2
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
20					
28	WR				
47					
50	WR				
63					
75				7.57 3/1	
75				+	
75				7.57 4/1	
75				+	
75				567 2/1	
100					
130					
150					

SECTION DESCRIPTION

OBSERVER: Asuka

* Drilling disturbance: slightly (0-30cm)

* Bioturbation:
 Moderate (0-20, 43-47, 72-130)
 Heavy (28-45, 63-72, 120-127)

* Lithology:
 Silty claystone (olive black, 7.57 (3/1))
 + gray 7.57 (4/1) 0-130cm
 Silt stone: 63-70cm + olive black 567 (4/1)

* Sed. Struct. & Accessories.

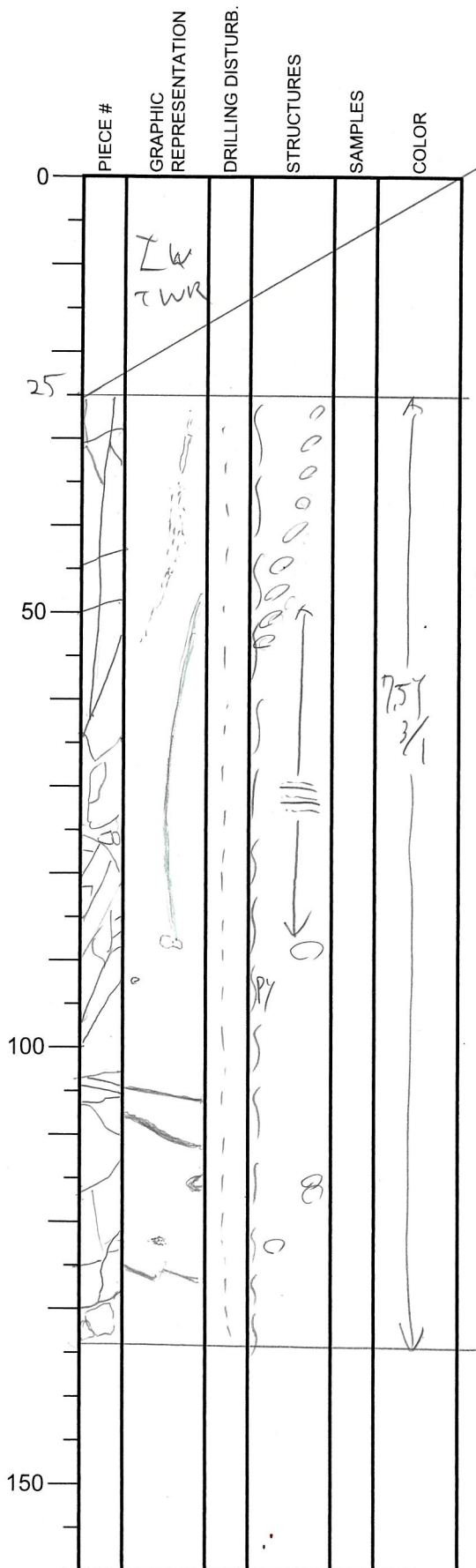
- Color banding: 7-20 & 63-92 & 100-128cm.
- Burrows: 67-72 & 118-127cm
- (Silt & burrow relationships suggest that top direction is the left side)

130cm:
 section bottom

International Ocean Discovery Program

Visual Core Description

NO.
 DATE: 8/11/2024
 EXP.: 405
 SITE/HOLE: C0019
 CORE: 40K
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Aruka

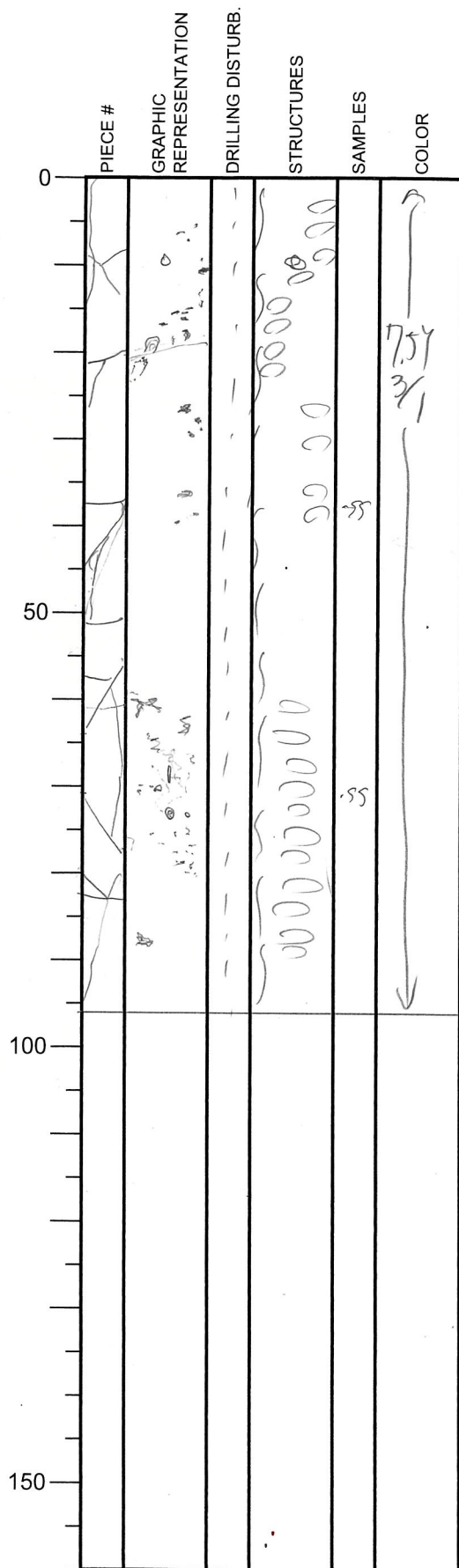
- * Drilling disturbance: Slight (25-134.5 cm)
- * Disturbance: Slight (25-134.5 cm)
- * Lithology:
 - Silty claystone (olive black, 7.5 3/1) 25-134.5 cm
- * Sed. Struct. & Accessories:
 - Patches of silt (Black, 7.5 3/1) at 0-55 cm, 115-117 cm, 122-123 cm.
 - Color banding (greenish black, 7.5 3/1) at 30-85 cm: very steep bedding.
 - Patches of ash (gray, 7.5 3/1) at 87-88 cm.
 - Pyrite at 92-93 cm.

34.5cm
 section bottom

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 18/11/2024
EXP: 405
SITE/HOLE: C009J
CORE: 40K
SECTION: 4
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Asuka

* Drilling disturbance: slight (0-96 cm)

* Disturbance: Slight (0-96 cm)

* Lithology: Silty claystone.

Olive black (7.5Y 2/1): 0-96 cm

Color slightly changed to brighter (7.5Y 3/2) partially because of the time duration between splitting (Oct. 30-31) and observation (Nov. 18).

* Sed. struct. & accessories

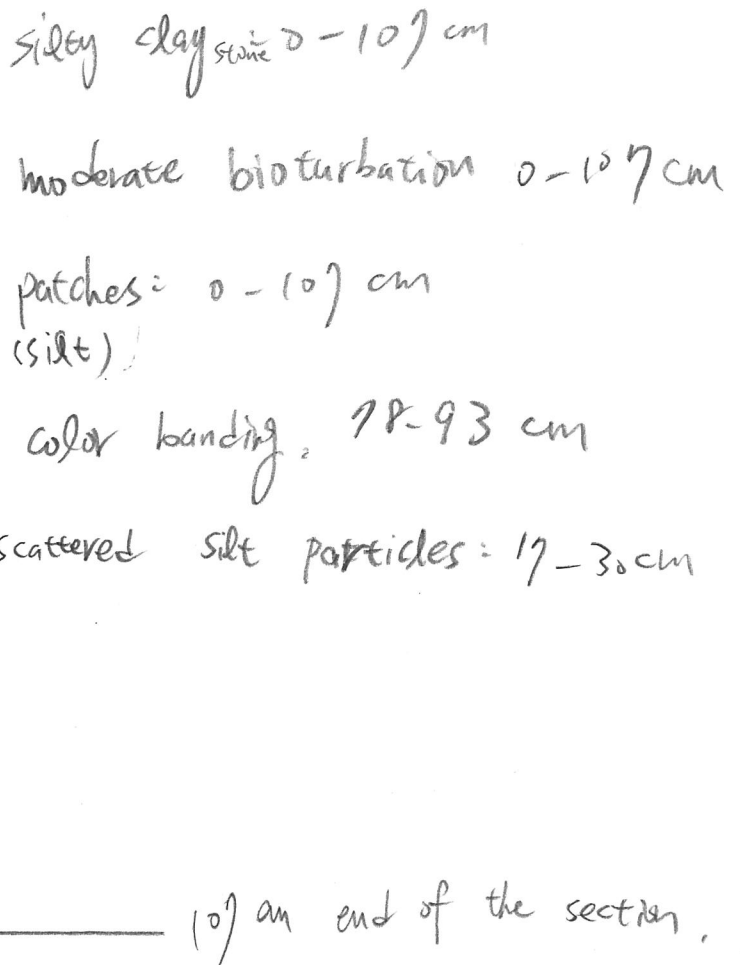
- Pumice at 9-10 cm.
- Patches of silt (Black 7.5Y 2/1) at 5-24, 27-40, 58-89 cm.
- Siliceous spicules at 69-73 cm.

96cm section bottom

ss. from 37cm (representative)
60cm (silt part)

OBSERVER: *Yu Chun*

OBSERVER: *Yu Chun*



丁

OBSERVER: *Yu Chen*

WR

crystallized pyrite patches = 88, 99

burrow : 104 - 105 cm

silty clay: ^{stone} 17-119 cm

Color banding = 25 - 55 cm

119 cm end of the section

J

International Ocean Discovery Program Visual Core Description

NO.
DATE: 18/11/20 24
EXP.: 405
SITE/HOLE: C0019J
CORE: 40K
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER: yu chun

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			SS		
			T _{bu}		
			SS	7.54	
			SS	3/1	
			T _{bu}		
			SS		
50			T _{bu}		
			SS		
			T _{bu}		
			SS		
			T _{bu}		
			SS		
100			T _{bu}		
			SS		
			T _{bu}		
			SS		
			T _{bu}		
			SS		
150					

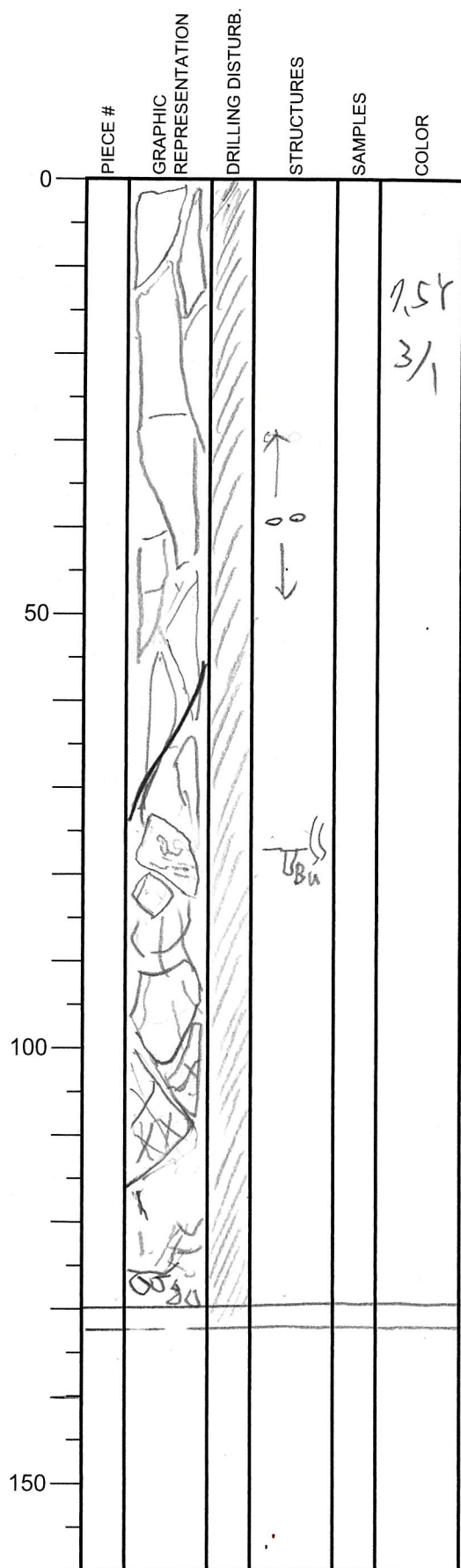
SECTION DESCRIPTION

Burrow: 0-133 cm
minor patches: 24-26, 37-39
moderately bioturbated: 0-133 cm
crystallized
pyrite: 37-38
patches
silty claystone 0-133 cm

118 end of the section

NO.
DATE: 10/11/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 40K
SECTION: 8K
TOP DEPTH (m CSF):

OBSERVER: Yuchun



SECTION DESCRIPTION

0-130 cm silty clay stone

ash patches 29-48 cm

black seam 61-72cm

Burnows - 78-80

Moderate bioturbated

U7D 133¹³⁰ cm end of the section

International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 18/11/20 24
EXP.: 405
SITE/HOLE: C0019J
CORE: 40K
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: Juchun

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000				7.5Y 3/1

SECTION DESCRIPTION

PAL 23 end of the core
0-18 cm
fragmented silty clay stone

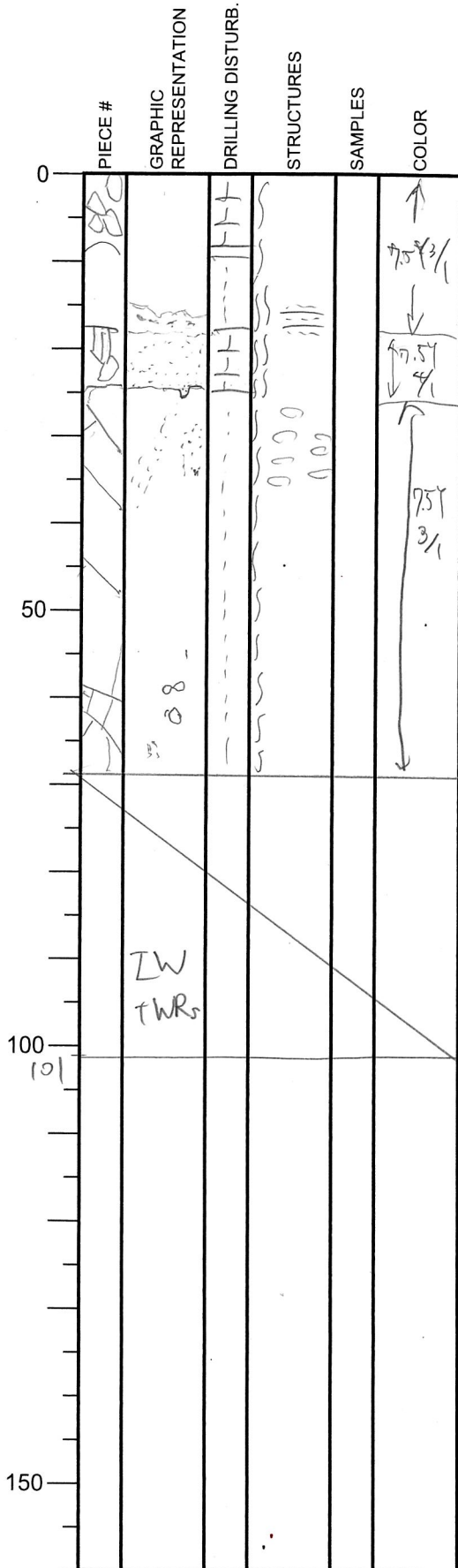
*Summary of Core 40K:
Olive black (7.5Y 3/1) bioturbated silty claystone with steeply dipping color bands, silt patches & burrows.

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 8/11/2024
EXP.: 405
SITE/HOLE: G-19J
CORE: 41K
SECTION: 1
TOP DEPTH (m CSF):

J



SECTION DESCRIPTION

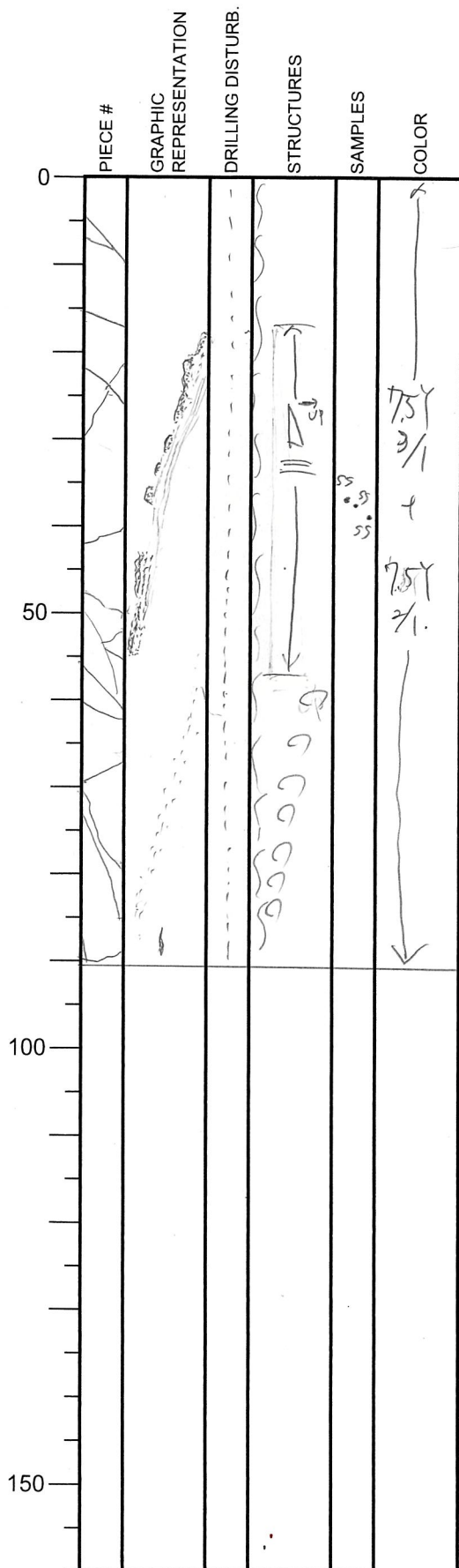
OBSERVER: Asuka

International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 18/11/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 41K
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Asuka

- * Drilling disturbance: Slight (0-90.5 cm)
- * Disturbance: Slight (0-90.5 cm)
- * Lithology: Silty claystone (Olive black 75Y 3/1) at 0-90.5 cm, with steeply dipping overturned v.f.s. - silt layer at 18-36 cm.
- * Sed. Struct & Accessory:
 - Planar bedding & Fining upward at 18-36 cm. silt to v.f.s. lamina, overturned. up direction corresponds to right side of the AH.
 - Patches of silt: 60-85 cm, similar orientation to overturned sand lamina.

90.5 cm
section bottom,

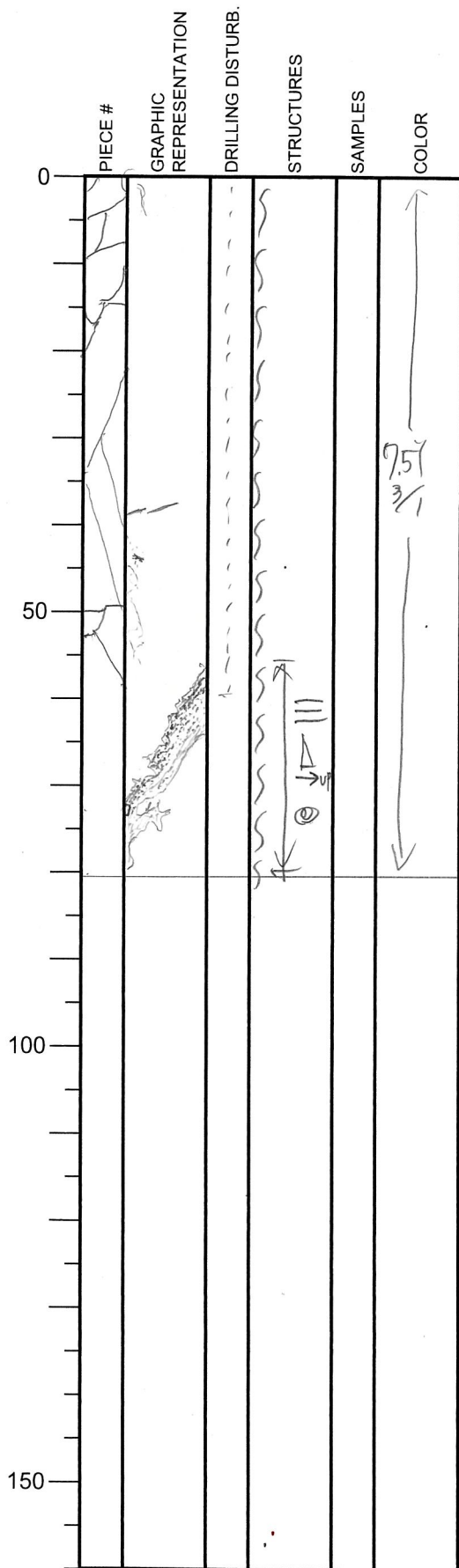
SS at 35.5, 36, 37 cm

↓
v.f.s. - silt layer contains a lot of pyrite.

J

International Ocean Discovery Program Visual Core Description

NO.
DATE: 18/11/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 415
SECTION: 3
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Asuka

* Drilling disturbance: slight (0-60 cm)
NONE (60-80.5 cm)

* Bioturbation: slight (0-80.5 cm)

* Lithology:

- Silty claystone (Olive black, 7.5 3/1) at 0-50 cm
- Clayey siltstone (Olive black, 7.5 3/1) at 50-80.5 cm
- Siltstone (Olive black, 7.5 3/1) at 80.5-78 cm

* Sed. structure & accessories

- Planar bedding & Fining upward at 55-78 cm overturned, right side of AH is the upward direction.

80.5 cm:
Section bottom

- Pumice at 72-73 cm

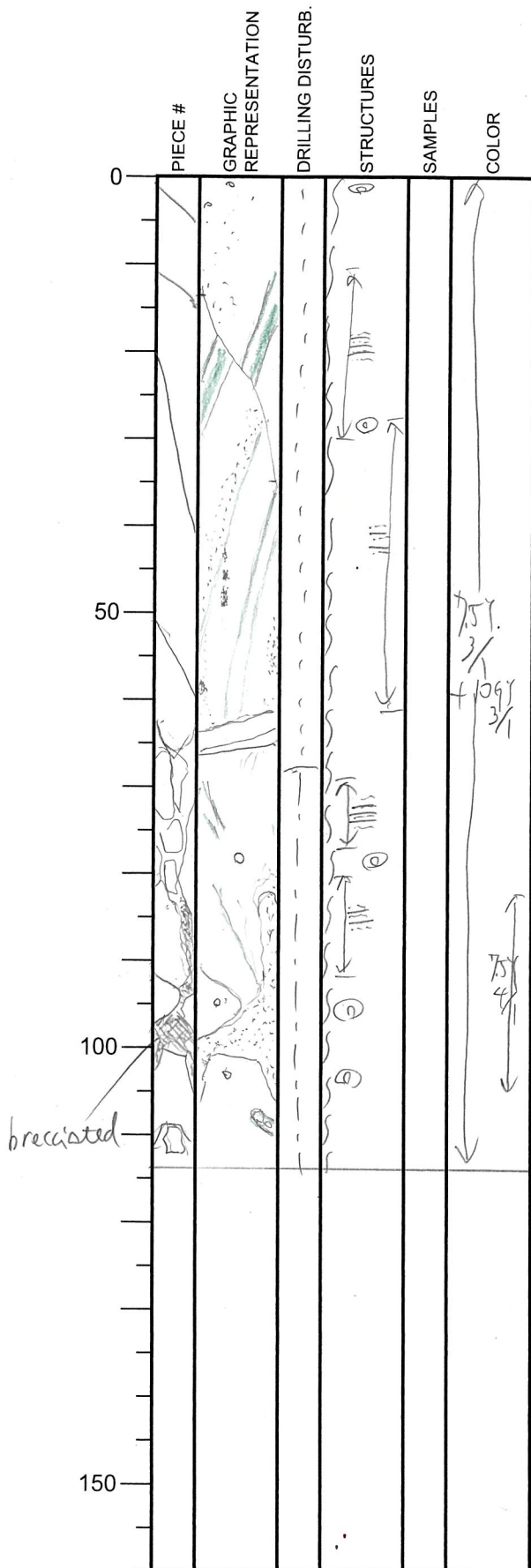
* Silt layer & Surrounding clayey silt layer shows wavy boundaries.

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 18/11/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 41K
SECTION: 4
TOP DEPTH (m CSF):

OBSERVER: Asaka



SECTION DESCRIPTION

- * Drilling disturbance:
 - Slight (0 - 68 cm)
 - Moderate (68 - 113.5 cm)
- * Disturbance: Slight (0 - 113.5 cm)
- * Lithology: Clayey siltstone (7.5Y 3/1, olive black) at 0 - 113.5 cm.
 Clayey silt (7.5Y 4/1, gray) at 82 - 104 cm (brecciated part)
- * Sed. struct. & Accessories:
 - Color banding (10.5Y 3/1, dark greenish gray) at 11-28, 26-63, 68-74, 82-91 cm.
 - Porosity at 0-1, 27-28, 78.5-79.5, 93-94, 101.5-125 cm.
- * Steeply dipping greenish layers are displaced by a normal fault & dark seams.

113.5 cm
Section bottom

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OBSERVER: *Asuka*

Drilling breccia
throughout the section.

36.50
section bottom

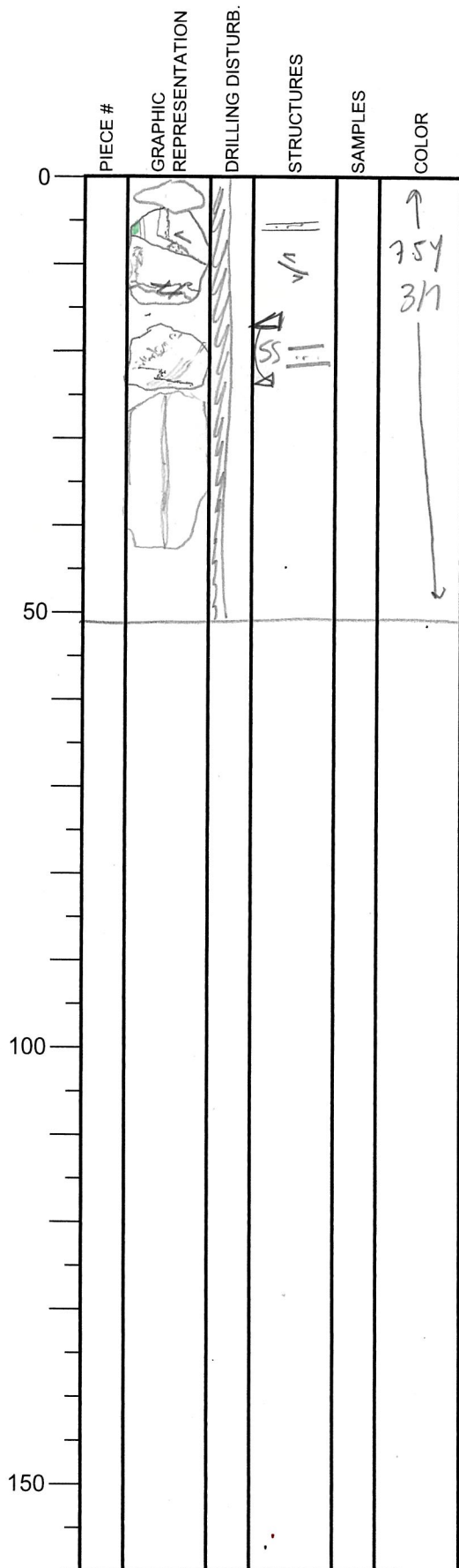
VCD sheet 160629

International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 19/11/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 42K
SECTION: 1
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Maryane

* Drilling disturbances
L moderate [0-51]

* Bioturbation
L moderate [7-15]
L heavy [19-21]

* Lithology
L 1) silty claystone, olive black (7.54 31)

51 cm - end of section

L 2) Ash/tephra (tuff?) layer
L gray (7.54 41)
L highly deformed / vertical (sheared and faulted)
L ? Ash (whitish) AND tuff (gray)

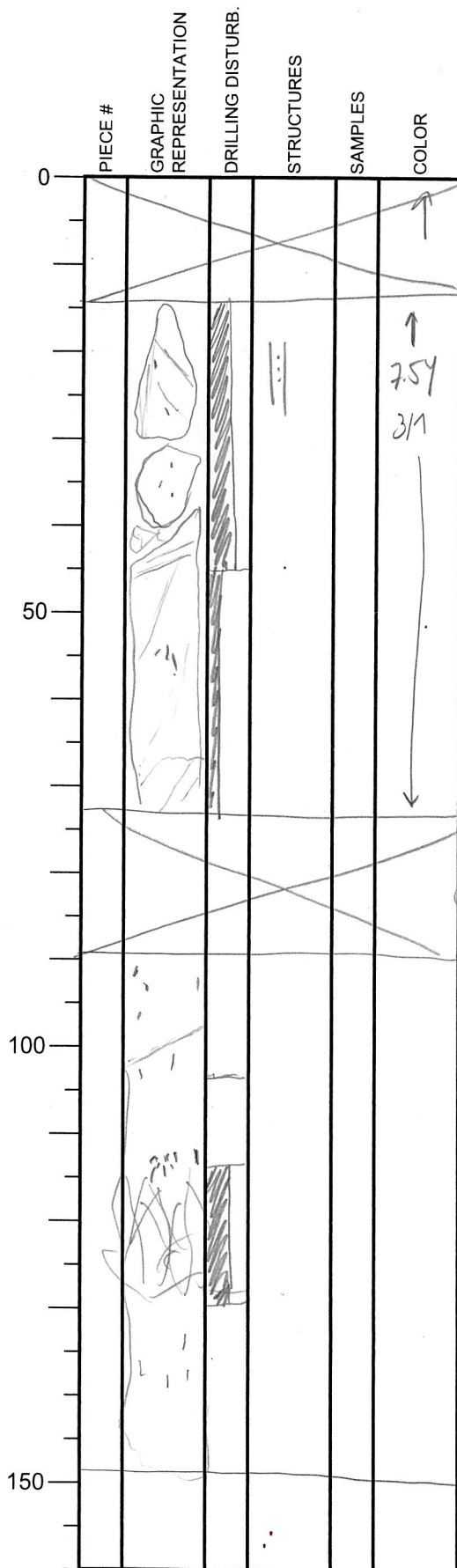
L 3) dark silty layer
L [11-13.5] L [19-21]
L deformed L highly bioturbated
tilting upward
but completely tilted and sheared

International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 9/11/20 24
EXP.: 405
SITE/HOLE: C0019 J
CORE: 424
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Jorgane

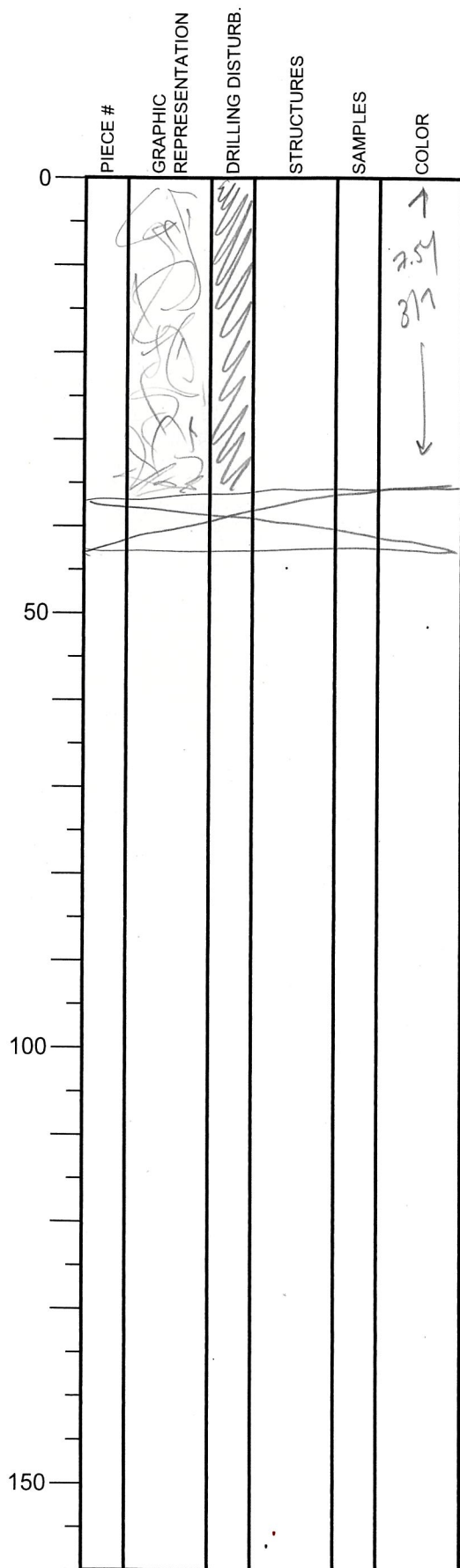
- * Lithology
 - L silty - claystone, olive black (7.54 3/1)
- * Drilling disturbance
 - L moderate [0-20]; [113-130]
 - L slight [89-113]; [130-147.5]
- * Dark/deformation structures (seams)
 - subvertical
 - L [16-29]; [66-71]
 - L [42-43]; [98-102]
 - L [43-49]; [112-117]
- * Teeny tiny (mm scale) silty patches
 - dark
 - L [27-28]; [54-55]; [101]
 - [127] [133-136]
 - [125-128] (

International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 19/11/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 42k
SECTION: CC
TOP DEPTH (m CSF):



丁

OBSERVER: *V. J. J. J.*

SECTION DESCRIPTION

- ↳ olive black silty claystone
- ↳ yellowish/grayish ash/tuff (terrace)
 - ↳ [17-30] + [79-88]
 - ↳ highly deformed = vertical bedding

- ↳ dark seams (11-15)
- ↳ deformed patches (top-bottom)
 elongated
 subvertical
- ↳ Color-banding (greenish), subvertical

silly - dense + tuffa + two

↓

all pitted
deformed.

International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 19/11/20 24
EXP.: 405
SITE/HOLE: C0019 J
CORE: 434
SECTION: 2
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					↑
					7.54
					311
					↓
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: Morgan

- Lithology
- * Olive black silty claystone
 - * Fine sand patch [10-11 cm] + [12-13] → edges: real or co?
 - * Structures
 - * Silt layer, vertical [20-31] → bioturbated [2-16]
 - * Vertical color-banding, greenish (top-bottom)
 - * Highly deformed silty-sand patches, subvertical brownish
- 47.5 cm - end of section

Still part of MD

Summary

Complex section of MD

- ↳ Vertical bedding, color-banding
 - silt layer
 - Fine sand patch
 -

↳ deformed patches of SC

NOTHING ON XCT

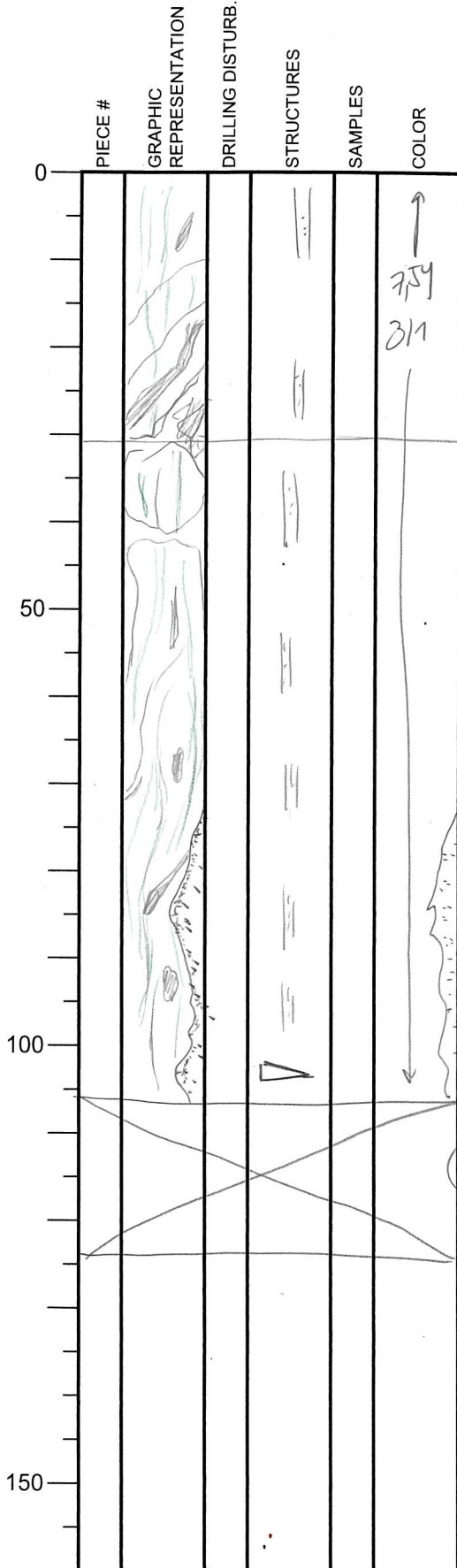
International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 19/11/20 24
EXP.: 405
SITE/HOLE: COA9J
CORE: 434
SECTION: 3
TOP DEPTH (m CSF):

OBSERVER: Morgane



SECTION DESCRIPTION

Lithology

- * Olive black silty-daystone
- * Dark silty to yls layer [74-105]
 - L subvertical
 - L highly deformed
 - L erosive surface (heavy mineral at the base)
 - L firing upward →

Structures

- * Vertical bedding
- * Vertical color-banding (greenish) - top to bottom
- * Deformed
- * Vertical dark seams. [30-105]
- * Deformed SC patches (top-bottom)
 - (silty clay) brownish

WR

124 cm - end of section

⇒ D MTD.

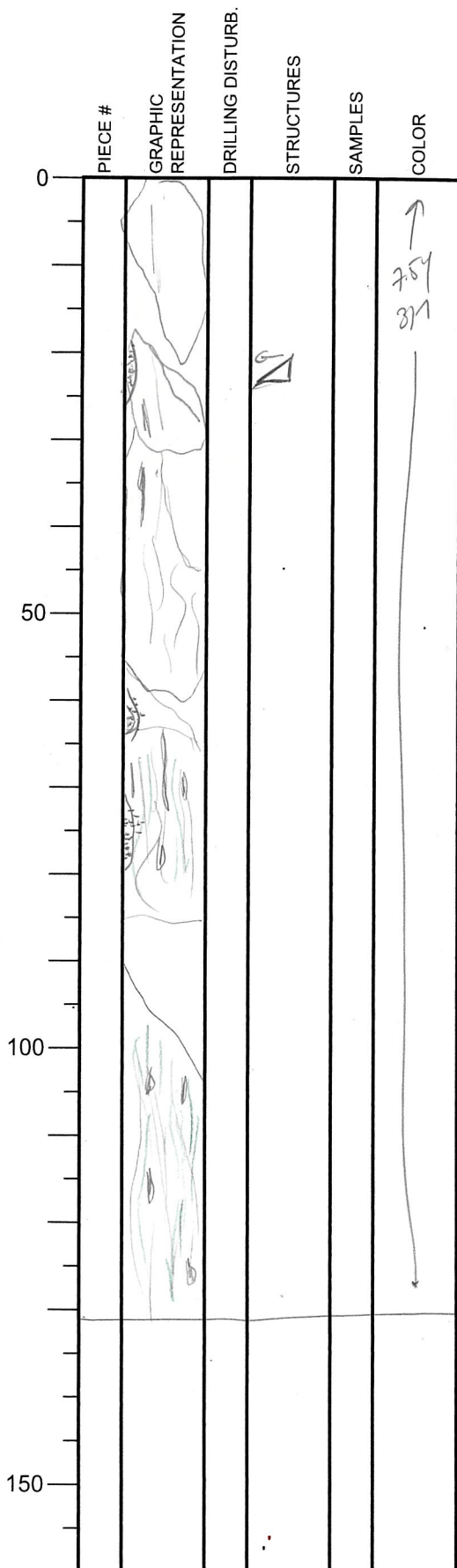
International Ocean Discovery Program

Visual Core Description

J

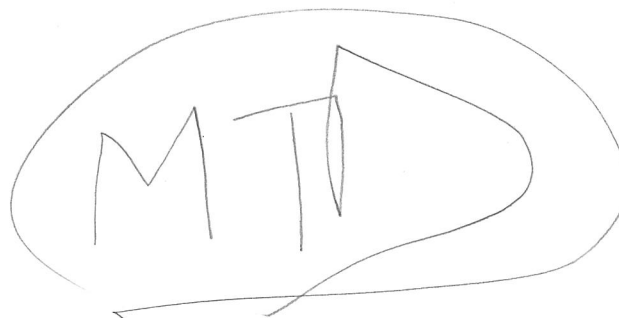
NO.
DATE: 9/11/2024
EXP.: 605
SITE/HOLE: C0019J
CORE: 434
SECTION: 4
TOP DEPTH (m CSF):

OBSERVER: N. J. J.



SECTION DESCRIPTION

Lithology
x One block, silty claystone



x Silty to vls, dark - [18-25 cm] $\swarrow$
- [64 cm]
Lateral - [69-77 cm]
L highly deformed
L potential fining upward gr
L on edges: real or CD?

Structure

x Vertical bedding
x Vertical color banding (greenish) (top to bottom)
deformed
wavy
vertical dark seams
deformed
wavy
x Elongated patches, sc (top to bottom)
deformed
brownish

132 cm - end of section.

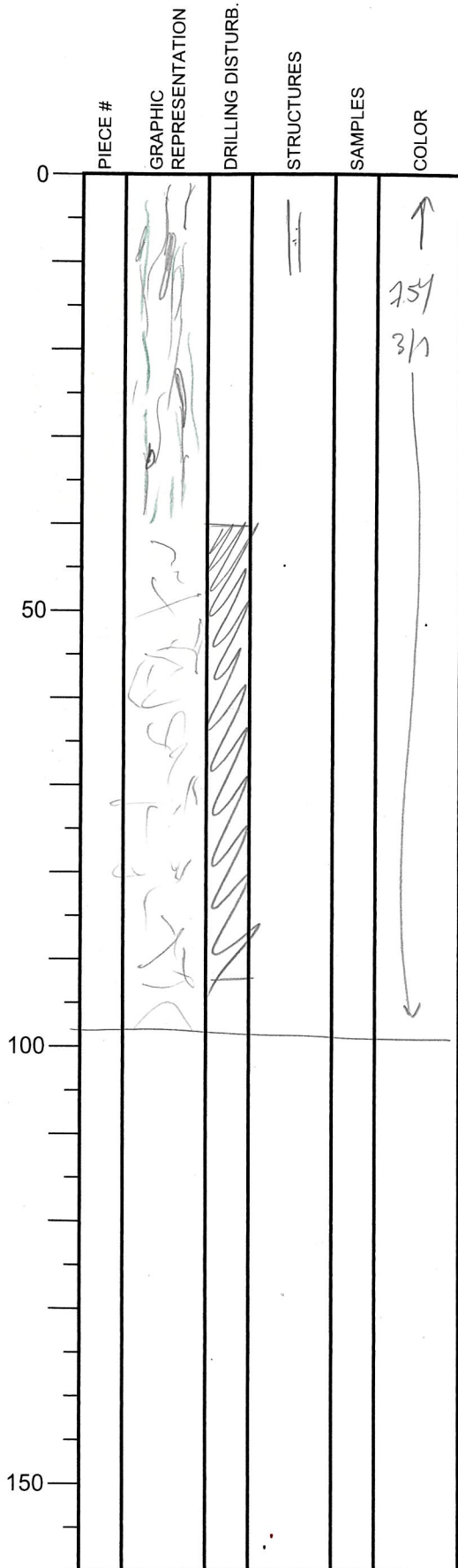
$\rightarrow$ MTD

International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 19/11/2024
EXP.: 405
SITE/HOLE: C00135
CORE: 43K
SECTION: 5
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Morgane

✓ Drilling disturbance

↳ (40-85 cm)
↳ highly fractured

Lithology

× Olive black, silty-claystone

× Dark silty to vls into fractures
↳ as? or real?

Structures

× Vertical bedding

× Vertical color banding
wavy

× Vertical brownish patches
deformed elongation

⇒ MTD

97.5 cm - end of section

J

International Ocean Discovery Program Visual Core Description

NO.
DATE: 19/11/2024
EXP.: 405
SITE/HOLE: C0013J
CORE: 434
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: Torgane

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					↑
754					
					311
					↓
50					
100					
150					

SECTION DESCRIPTION

Drilling disturbance

L [0-30]

L material all destroyed. (silty claystone probably)

PAL SAMPLING

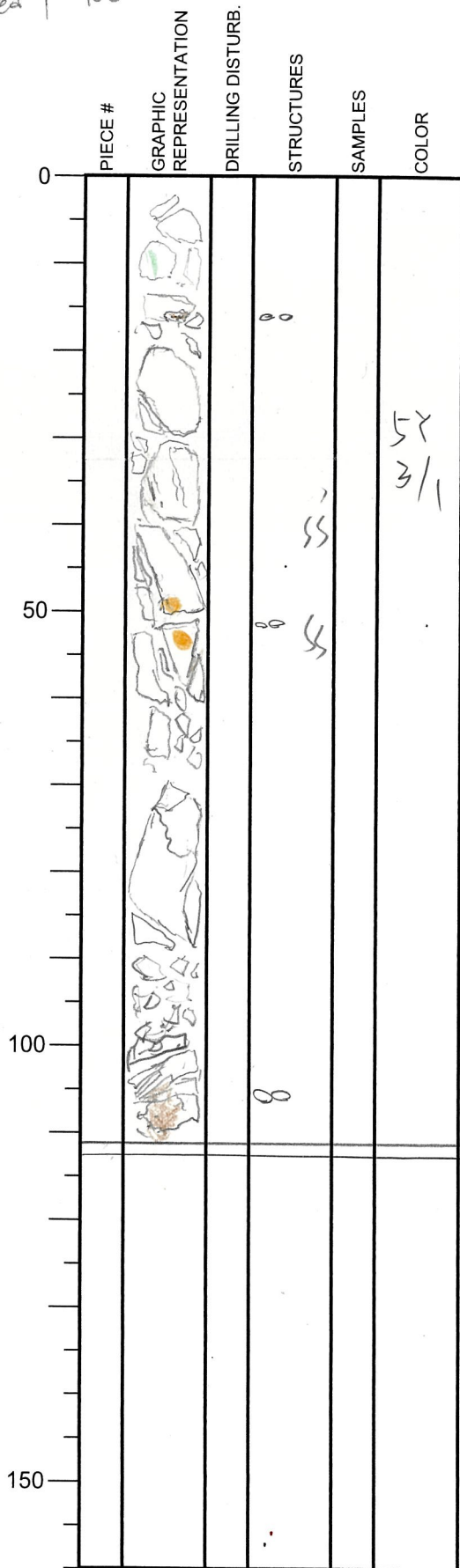
color
grain size
pumice?
deformed ss
altered pumice

J

International Ocean Discovery Program Visual Core Description

NO.
DATE: 19, 11, 2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 44K
SECTION: 1
TOP DEPTH (m CSF):

OBSERVER: Yu Chun



SECTION DESCRIPTION

crystallized pyrite: 10, 50, 53 cm

bioturbation: 47-60 cm

patches: 16-17

deformed ash (beds patches): 105-109 cm

silty clay stone: 0-111 cm

111
112.5 end of the section
↓
sponger.

Summary: fragmented silty clay
stone with deformed ash beds
patches

丁

OBSERVER: *Yu chun*



18 cm

deformed ash (patches)
beds: 51-73
silty

black searum $\begin{cases} 19-24 \text{ cm} \\ 26-29 \text{ cm} \end{cases}$

color banding = 30-60 cm

65 - 88 cm

113-120 cm

moderate
bioturbation: 44-90 cm

Silty clay stone : 0 - 140.5 cm

deformation zone? 75-90 cm

140.5 cm end of section

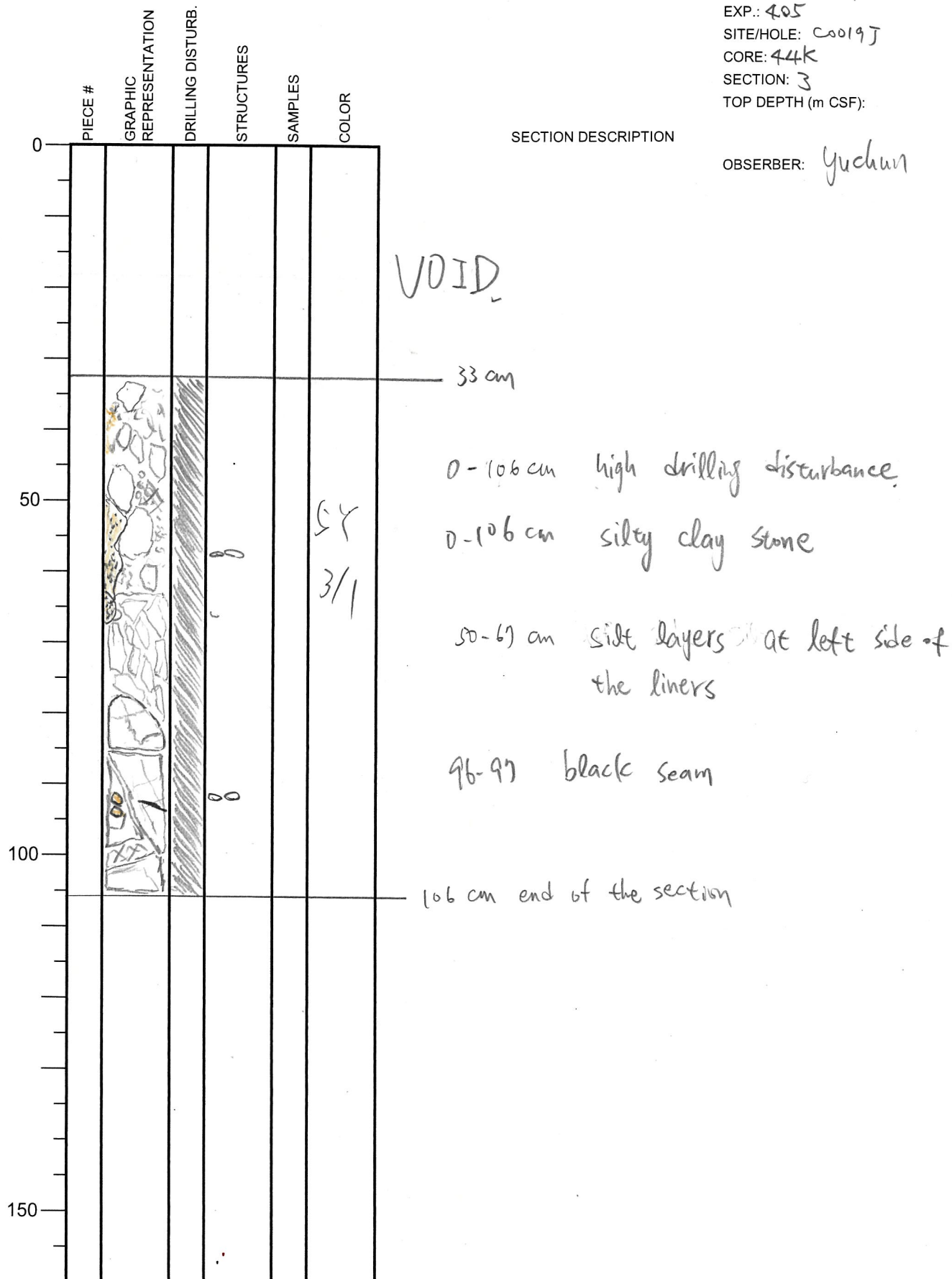
Summary = highly disturbed silty
clay stone with ash beds
(patches)
along the left liners.

J

International Ocean Discovery Program Visual Core Description

NO.
DATE: 19/11/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 44K
SECTION: 3
TOP DEPTH (m CSF):

OBSERVER: Yuchun



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OBSERVER: Yuchun

SECTION DESCRIPTION

PAL 18
23 cm end of the section

0-18 cm fragmented silty clay stone

丁

OBSERVER: *Yu Chun*

SECTION DESCRIPTION

Summary: Bioturbated silty clay stone
with scattered pumice.

International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 19/11/20 24
EXP.: 405
SITE/HOLE: C00197
CORE: 45k
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER: Yuchun

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
			SS P SS		54 41
50			SS P SS		
100					
150					

SECTION DESCRIPTION

scattered pumice clasts: 11, 29-30, 46-64, 72
altered

color banding: 0-30, 46-60

WR ash patch: 14-15

silty clay stone: 0-35, 45-79 cm

coarser silt extend along both sides of the liner

bioturbation: 0-35, 45-79 cm

79 cm end of the section

Summary: silty clay stone with
scattered altered pumice clasts
bedding is nearly vertical.

丁

OBSERVER: Yuchun

SECTION DESCRIPTION

color banding.

black seams: 44-52 cm

normal fault? 44-52

78-80_{cm} → andesite

deformed ash beds with ^{big} ash patches/clast = 52-77 cm

Silty clay stone. 0-52, 77-93 cm

93 cm end of the section

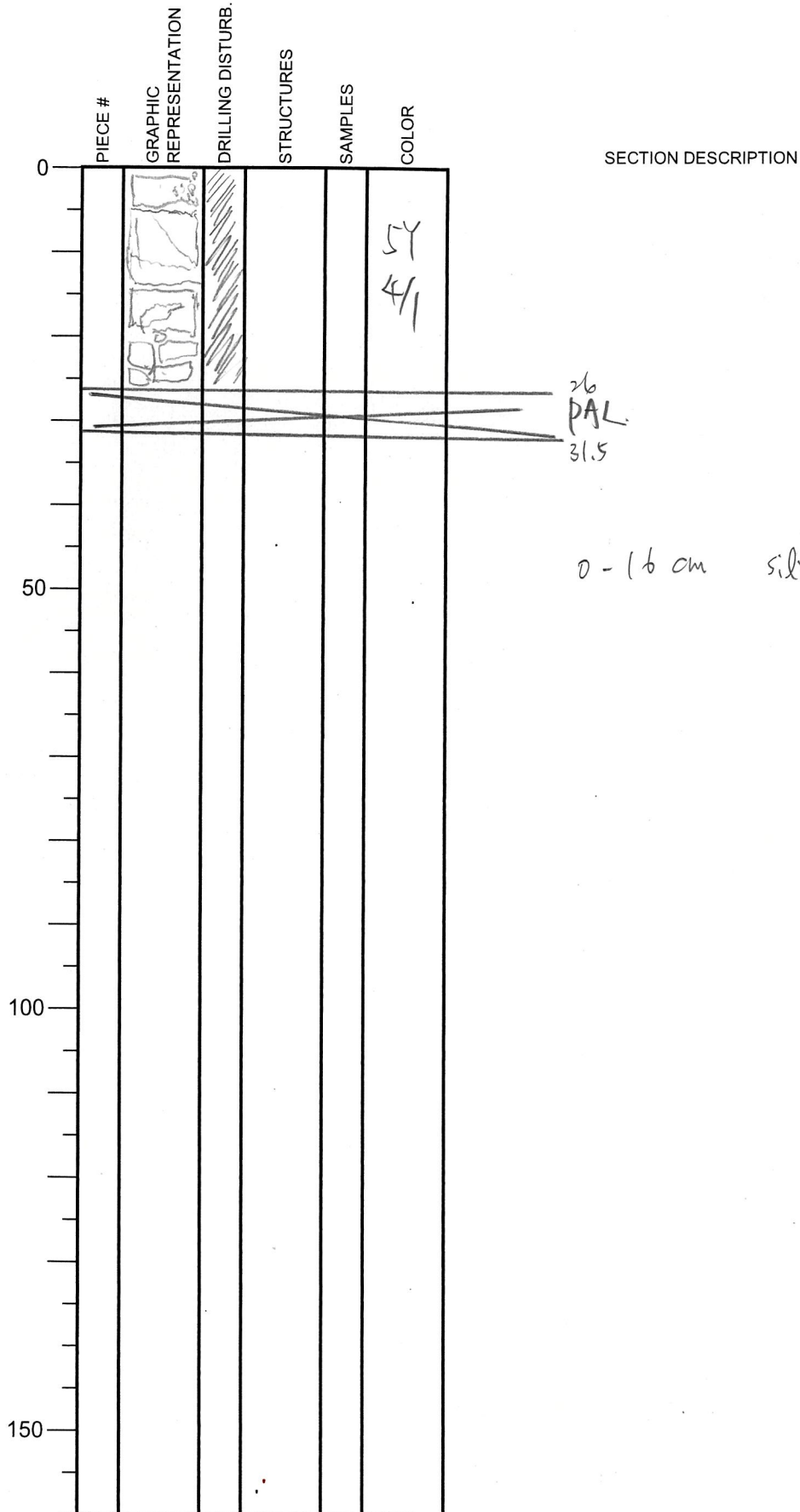
International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 19/11/20 24
EXP.: 405
SITE/HOLE: 00019J
CORE: 45K
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: Yuchun



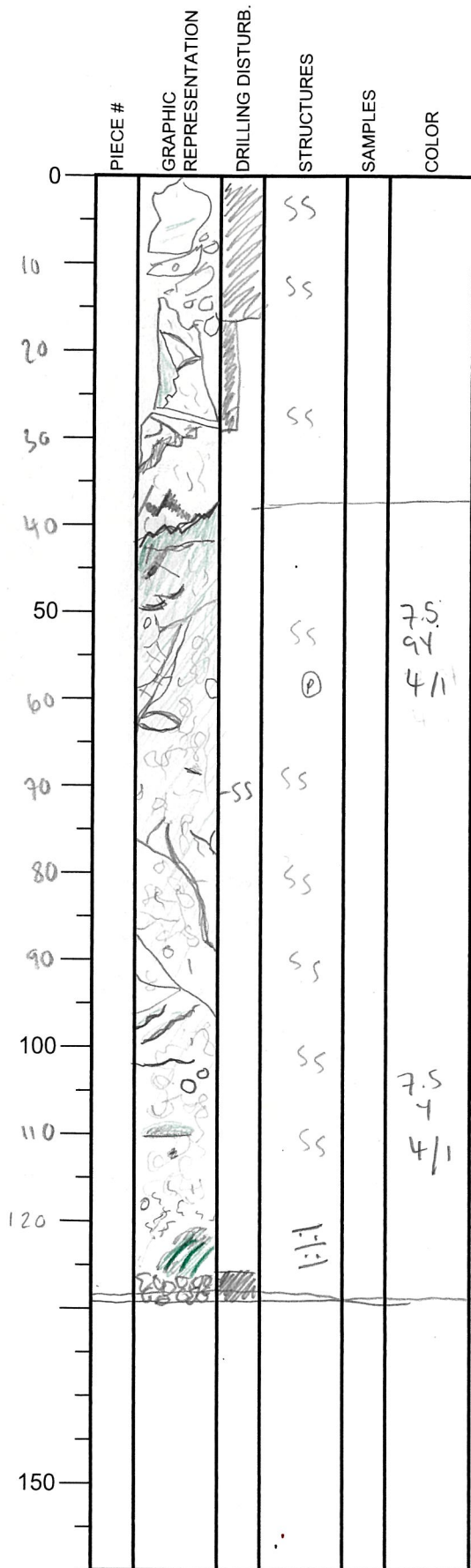
International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 9/11/20 24
EXP.: 405
SITE/HOLE: 19J
CORE: 46K
SECTION: 41.12
TOP DEPTH (m CSF):

OBSERVER: CP



SECTION DESCRIPTION

* PUMICE CLASTS

60, 18, 35, 37, 90, 106

* MOTTLING

DARK GREY, LIGHT GREY, GREEN.

* COLOR BANDING

123-127

* MODERATE BIOTURBATION

0-129.5

SUMMARY

Gray (7.5Y 4/1) clayey siltstone (mudstone), with intervals of dark greenish gray (7.5GY 4/1) separated by black seams with offsets. Bioturbation + mottling + dispersed pumice throughout.

* SS

80 - representative

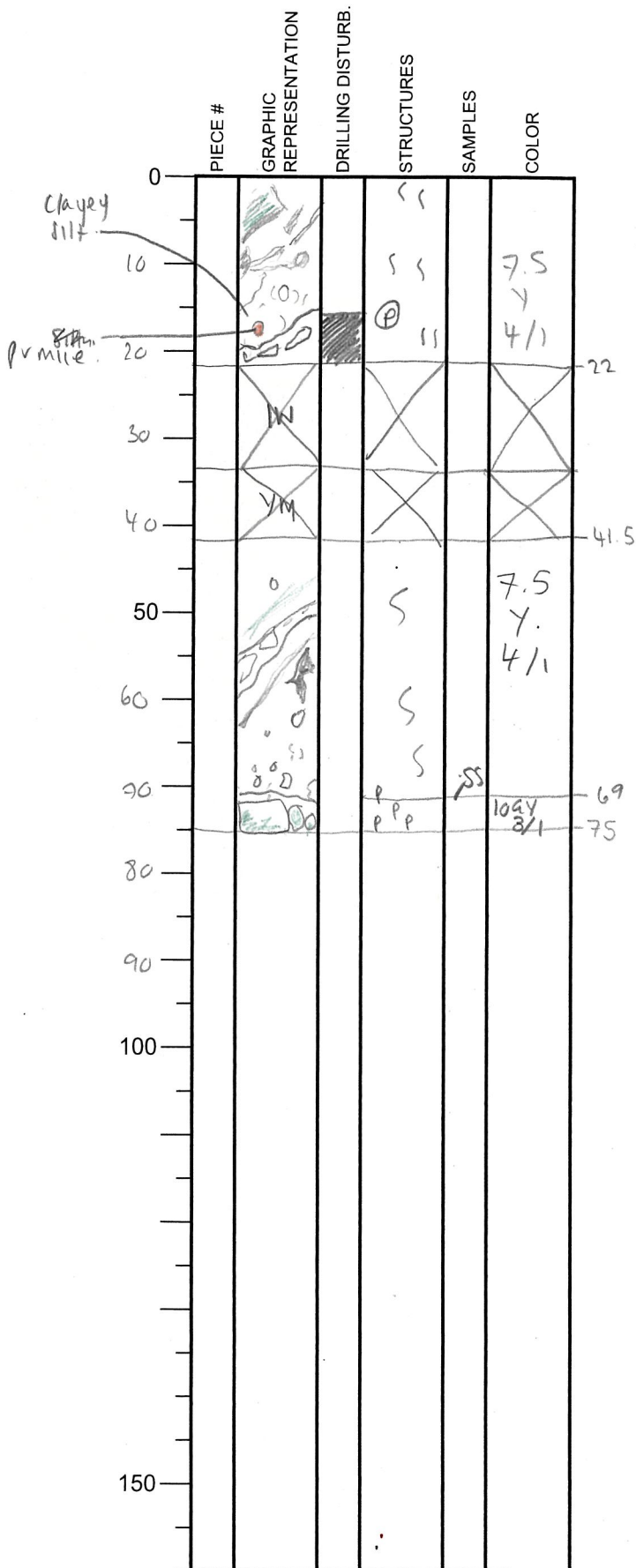
129.5 = END.

International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 19/11/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 46K
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

* WR=22-34 (1W)
34-41.5 (YM)

* MODERATE BIOTURBATION + BLACK MOTTLING

- 0-75

* DISPERSED PUMICE

- 60-70

- 16

* SAND (GREEN/GRAY - PROBABLY ASH?)
- 69-75 (CAN'T SEE CONTACT)

* GRAY SILTSTONE (MUDSTONE)

- 0-61

SUMMARY

GRAY SILTSTONE (MUD) WITH BLACK WHISPY MOTTLES + BIOTURBATION. SANDY UNIT (GREEN) FRACTURED AT BASE SO CONTACT NOT VISIBLE. LIGHT GRAY PODS OF ASH BIOTURBATED ABOVE.

* SS

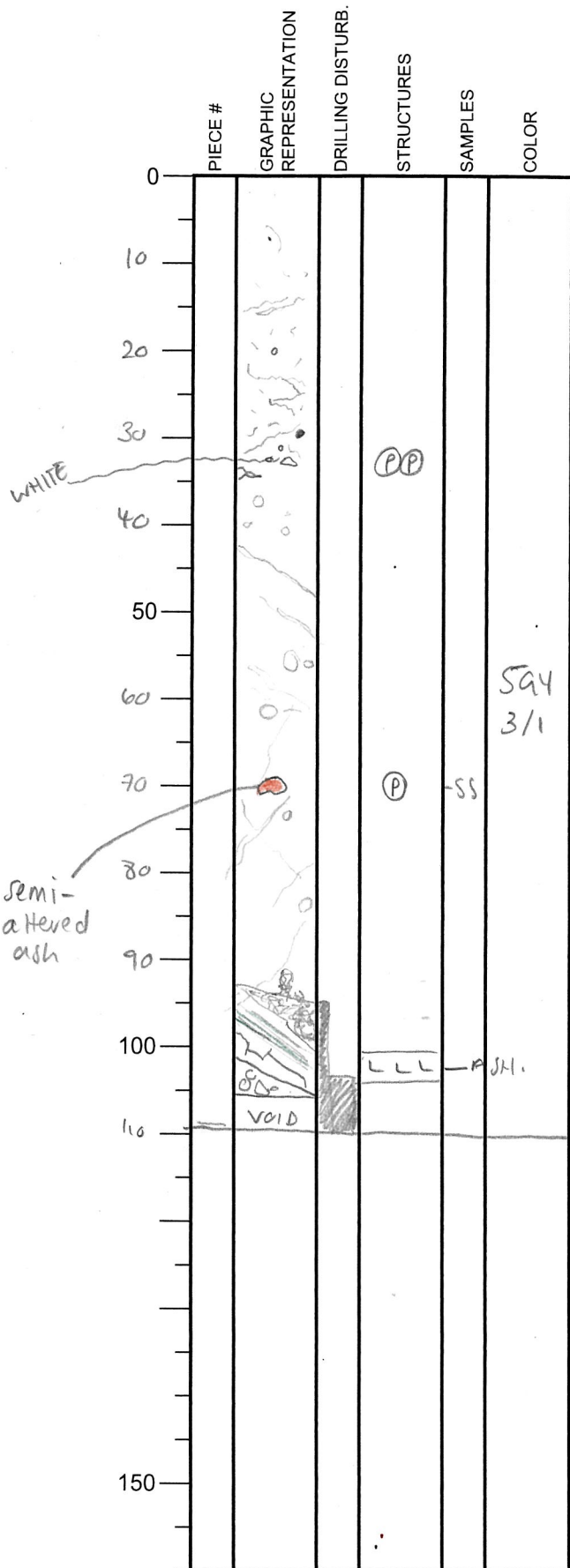
70-SAND.

International Ocean Discovery Program Visual Core Description

NO.
DATE: 19/11/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 46K
SECTION: 3
TOP DEPTH (m CSF):

511 mbsf.
540 mbsf =
geochem
anomaly.
610 FAULT.
53K = PUMKIN

J



SECTION DESCRIPTION

* MODERATE BIOTURBATION
+ BLACK MOTTLING
= 0-109

* DISPERSED PUMICE
= 70 (ORANGE-SS SUGGEST SEMI-ALTERED)
= 30-33 (WHITE)

* ASH (LIGHT GREY-GREEN)
= 91-93 (DIAGONAL GREEN) (DEFORMED BY
CORING SO CAN'T SEE CONTACTS).
DARK SEEMS BENEATH)

* LAYERED SILTSTONE (MUDSTONE) (DARK GREENISH GRAY)
= 0-105

* SS = 70 = ORANGE PUMICE.

SUMMARY

DARK GREENISH GRAY SILTSTONE, MOTTLED
+ BIOTURBATION SHOWN WITH DARK
GRAY WHISPY SEAMS. ASH INTERVAL
DISTURBED BY CORING.

(1.98-2.5 mm)
DIATOM PREIM.

NB: 46K IS LIGHTER OIVE GRAY THAN
44K OIVE BLACK.

International Ocean Discovery Program Visual Core Description

J

NO.
DATE: 19/11/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 46K
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
10				X	5Y 3/2
20					
30					
40					
50					
60					
70					
80					
90					
100					
110					
120					
130					
140					
150					

SECTION DESCRIPTION

OBSERVER: CP

WR=21.5-26.5

0-26.5 = DARK OLIVE SILTY SANDSTONE
WITH 2 SUB-VERTICAL BLACK SEAMS,
HEAVILY DISTURBED BY CORING.

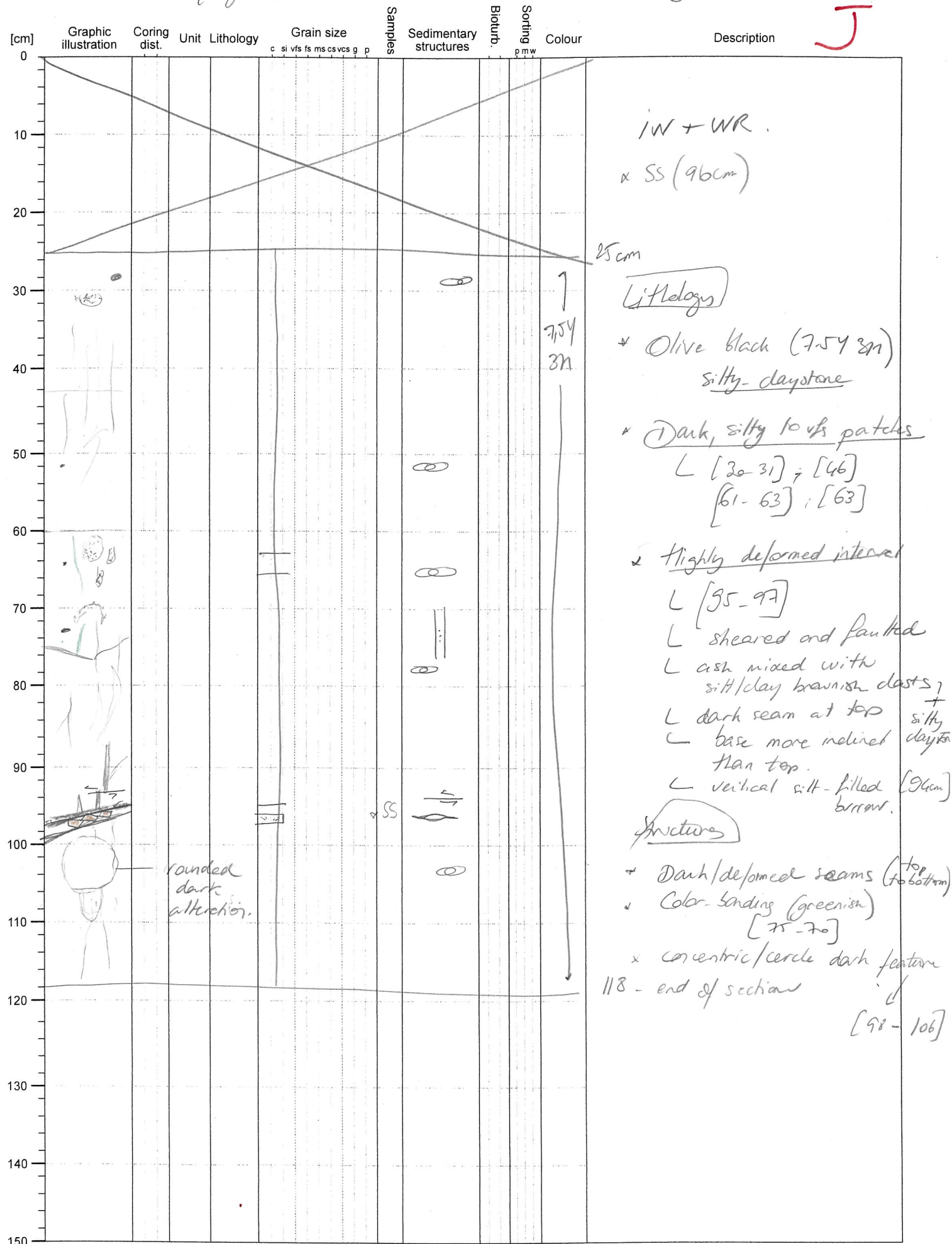
26.5 END.

Exp. 405	Site C0018J	Hole J	Core 47k	Section 1
-------------	----------------	-----------	-------------	--------------

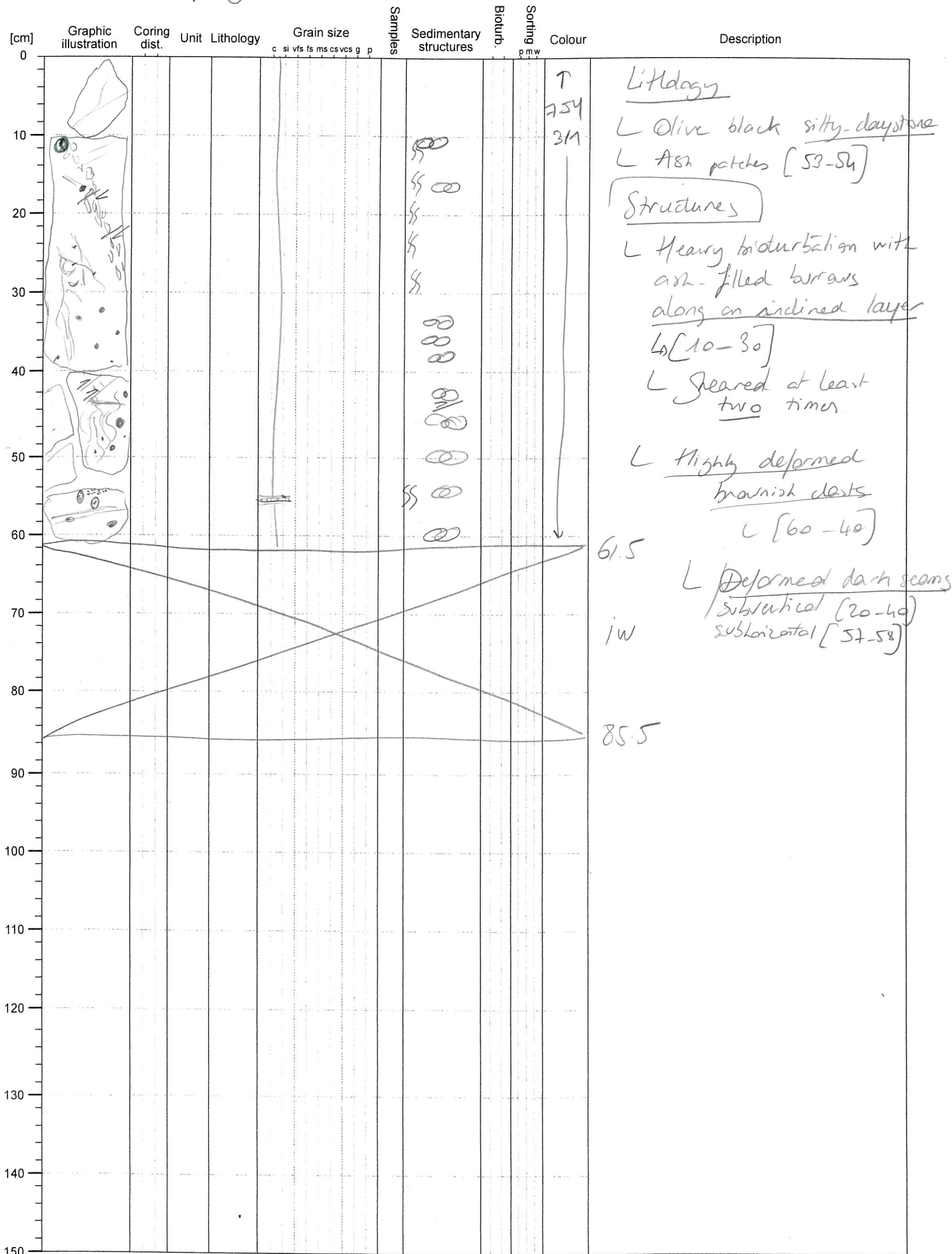
Date 20/11/24	Observer Mogane
------------------	--------------------

VISUAL CORE DESCRIPTIONS

Exp. 405	Site Coalg	Hole J	Core 474	Section 2
-------------	---------------	-----------	-------------	--------------



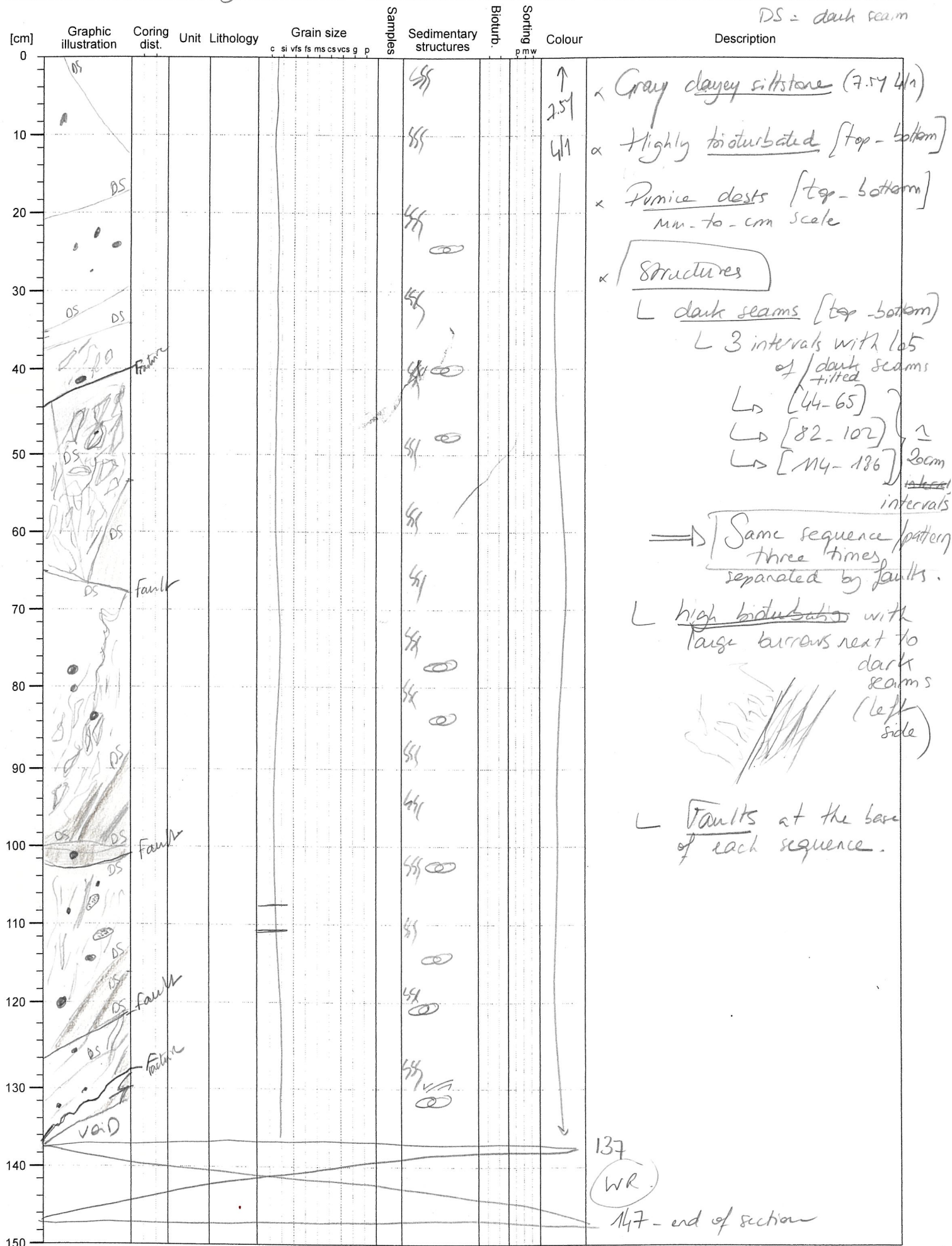
Date 20/11/24	Observer Mergane	VISUAL CORE DESCRIPTIONS		Exp. 405	Site Ceo19	Hole J	Core 48h	Section 1
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Date 26/1/24 Observer Morgane

VISUAL CORE DESCRIPTIONS

Exp. 405 Site Doo19 Hole J Core 49k Section 1



丁

OBSERVER: yuchun

IW

20 см

5 cm

WR

Госн

143_{any} end of the section

black seams: 28-32, 71-93, 94-110,
116-119, 133-140'
(vertical & sub-parallel)

Burns: 20-50, 70-143

summary: bioturbated clayey silt stone
with color banding & black seams, &
pumice

7

OBSERVER: *Juchyn*



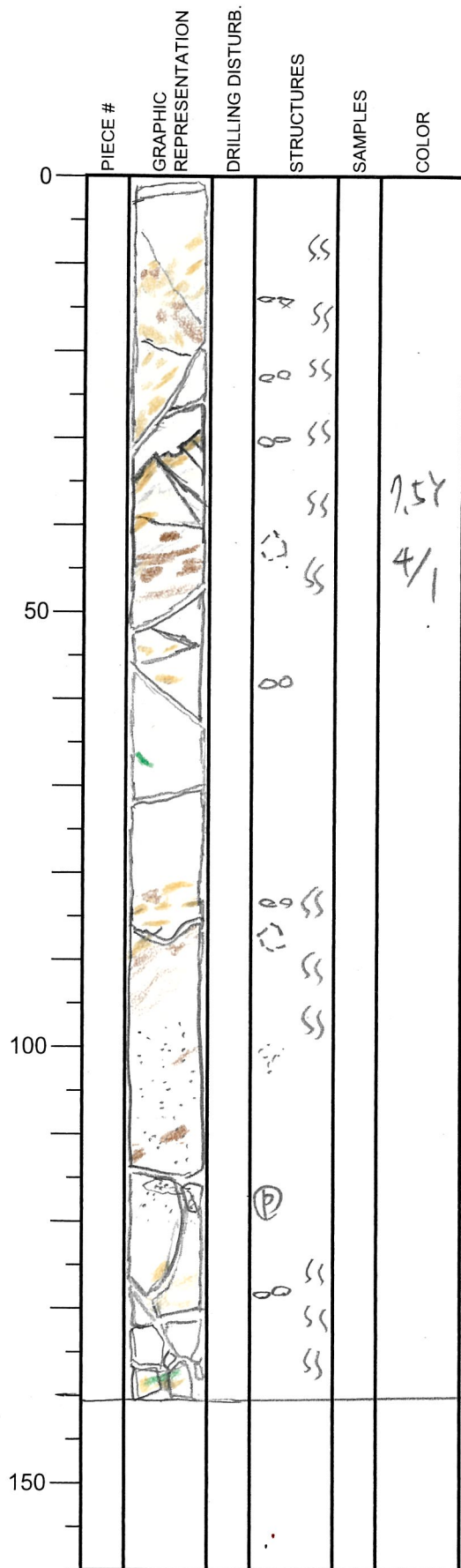
bedding angle becomes flat ??
from the lower part of the section

International Ocean Discovery Program Visual Core Description

NO.
DATE: 19/11/2014
EXP.: 405
SITE/HOLE: C00193
CORE: 49K
SECTION: 4
TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: yuchun



bioturbation: 0-50, 81-100, 136-138

mottled structure: 7-50, 72-105, 124-138

elongated ash patches: 7-41, 82-90, 125-131, 137-140

pumice: 117-119, 65-66

scattered silt: 98-124

color banding, 137-140

Summary.. bioturbated clayey silt some

mottled ash patches were sheared by dark seams

bedding angle definitely becomes low-medium angle at this section

141 cm end of the section

丁

OBSERVER: *Yu Chun*

OBSERVER: *Yu Chen*

scattered pumice: 26-52

color banding = 15, 24-36, 55-61

Deformation bands 37-41 cm

VOID 69 cm end of the section

Summary: clayey silt stone

フ

OBSERVER: *Yu Chen*

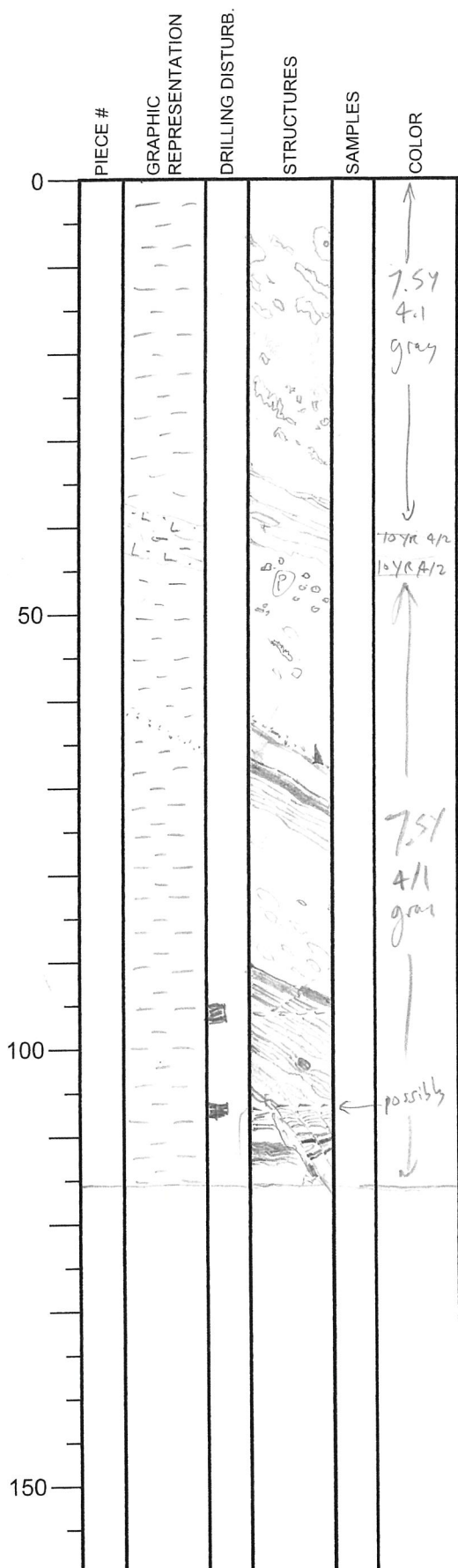
	15.5
PAL	20.5

Summary: fragmented clayey silt
stone covered by ashes

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 11/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 50k
 SECTION: 21
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *Clisden Nicholson*

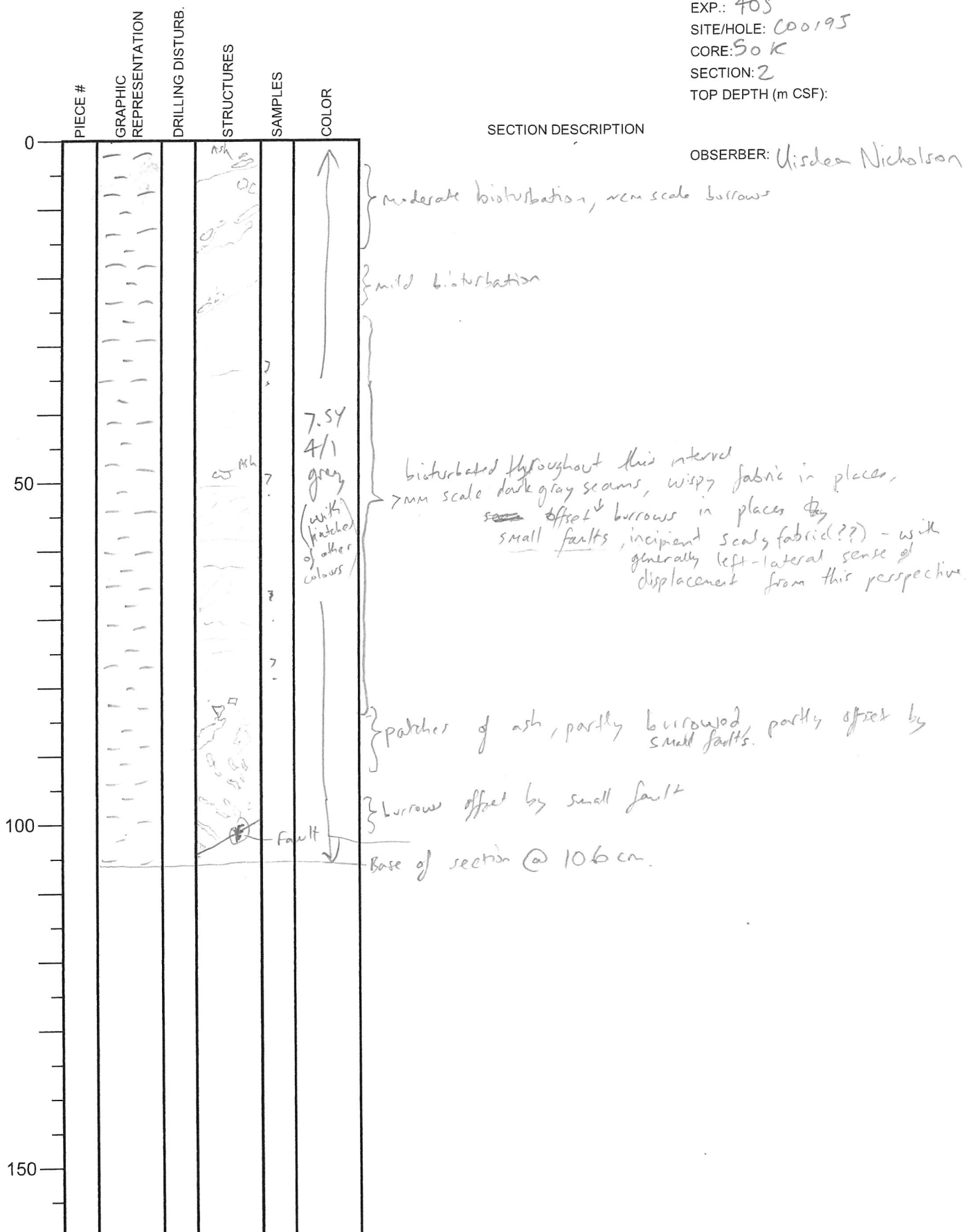
Summary
 Gray (10Y 7.5Y 4/1) mudstone with ash layers, and dark ~mm scale lamination in places, and some evidence of soft-sediment deformation

*PRELIM. DATING
 (4-5.6 MA)*

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 1 / 20
EXP.: 405
SITE/HOLE: 000195
CORE: 50K
SECTION: 2
TOP DEPTH (m CSF):

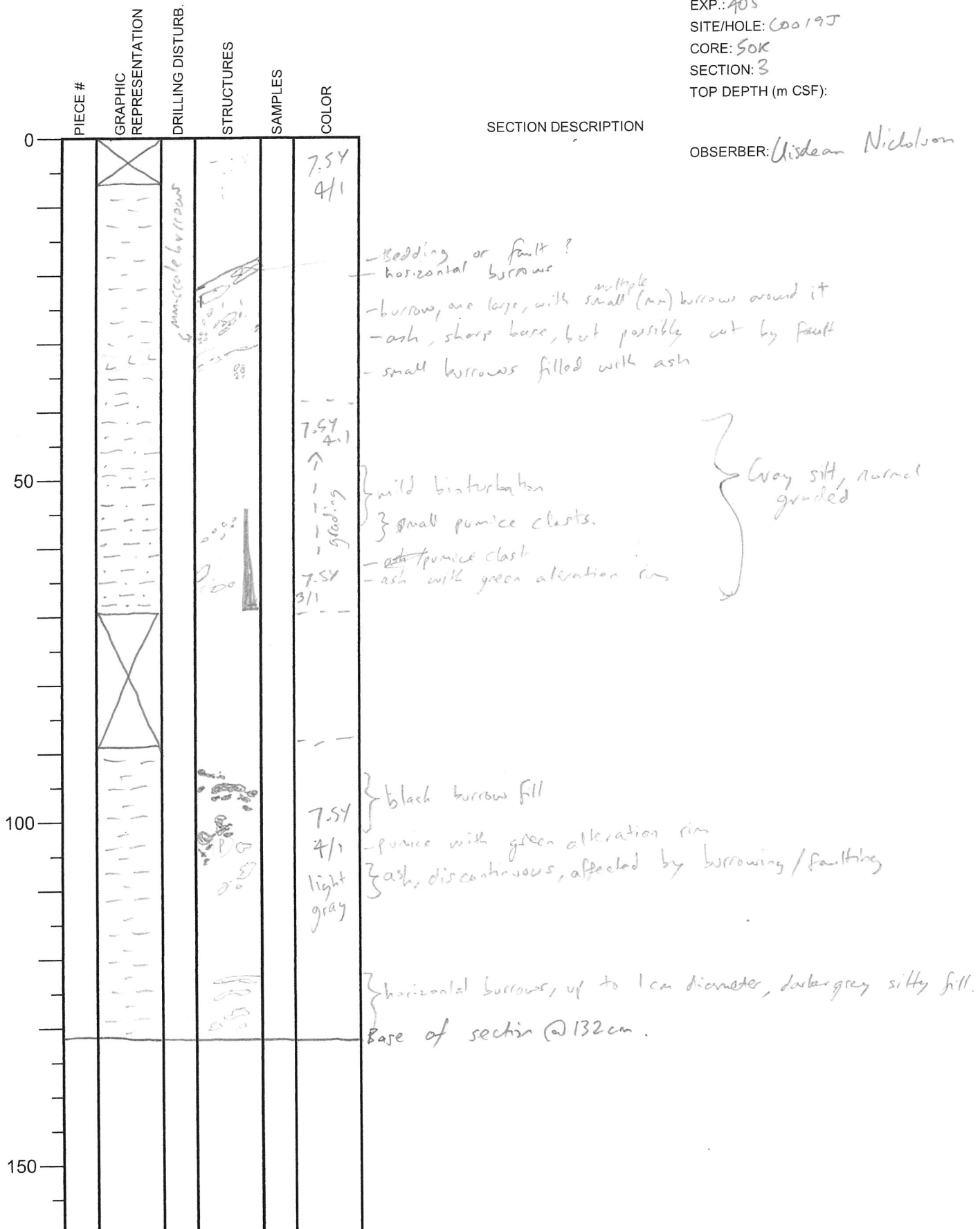


International Ocean Discovery Program

Visual Core Description

NO.
DATE: 7/10/20 24
EXP.: 405
SITE/HOLE: 0019J
CORE: 50K
SECTION: 3
TOP DEPTH (m CSF):

OBSERVER: Uisdean Nicholson



International Ocean Discovery Program Visual Core Description

NO.
DATE: 17/10/2024
EXP.: A05
SITE/HOLE: C00195
CORE: 50K
SECTION: 4
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					7.54 3/11 olive black
					7.54 7/11 light gray ash
					7.54 light gray burrows, partially ash filled.
					8/1 light gray
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: Uisdean Nicholas

burrowed bedding boundary
light gray ash

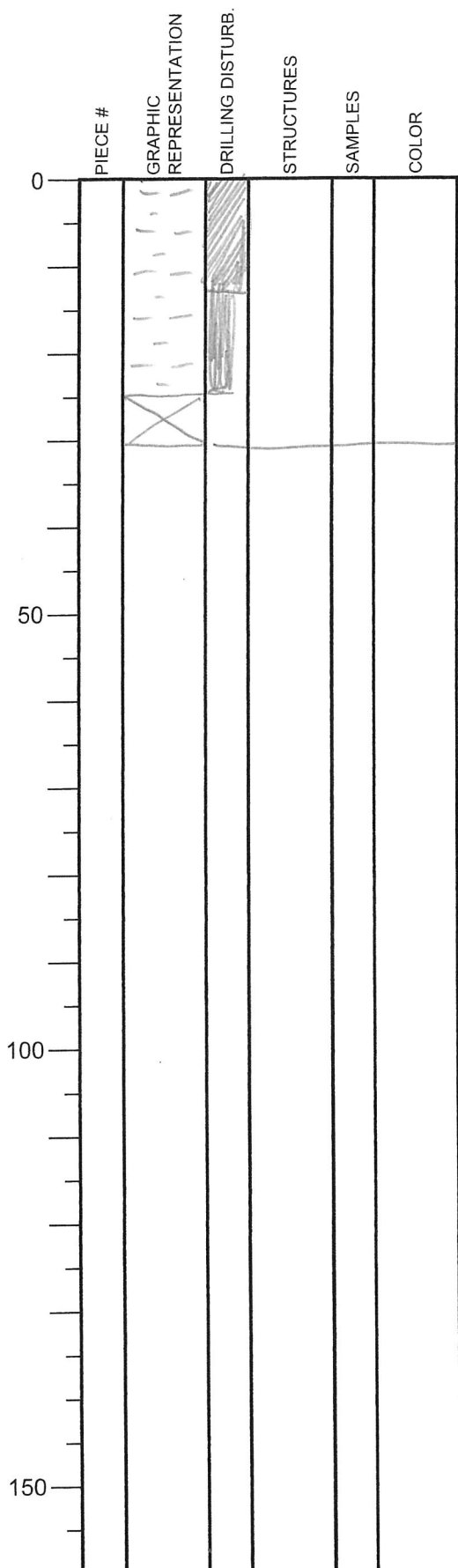
light gray burrows, partially ash filled.

Base of section @ 29.5cm.

International Ocean Discovery Program

Visual Core Description

NO.
 DATE: 17/10/2021
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 50K
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Vis Jean Nicholson

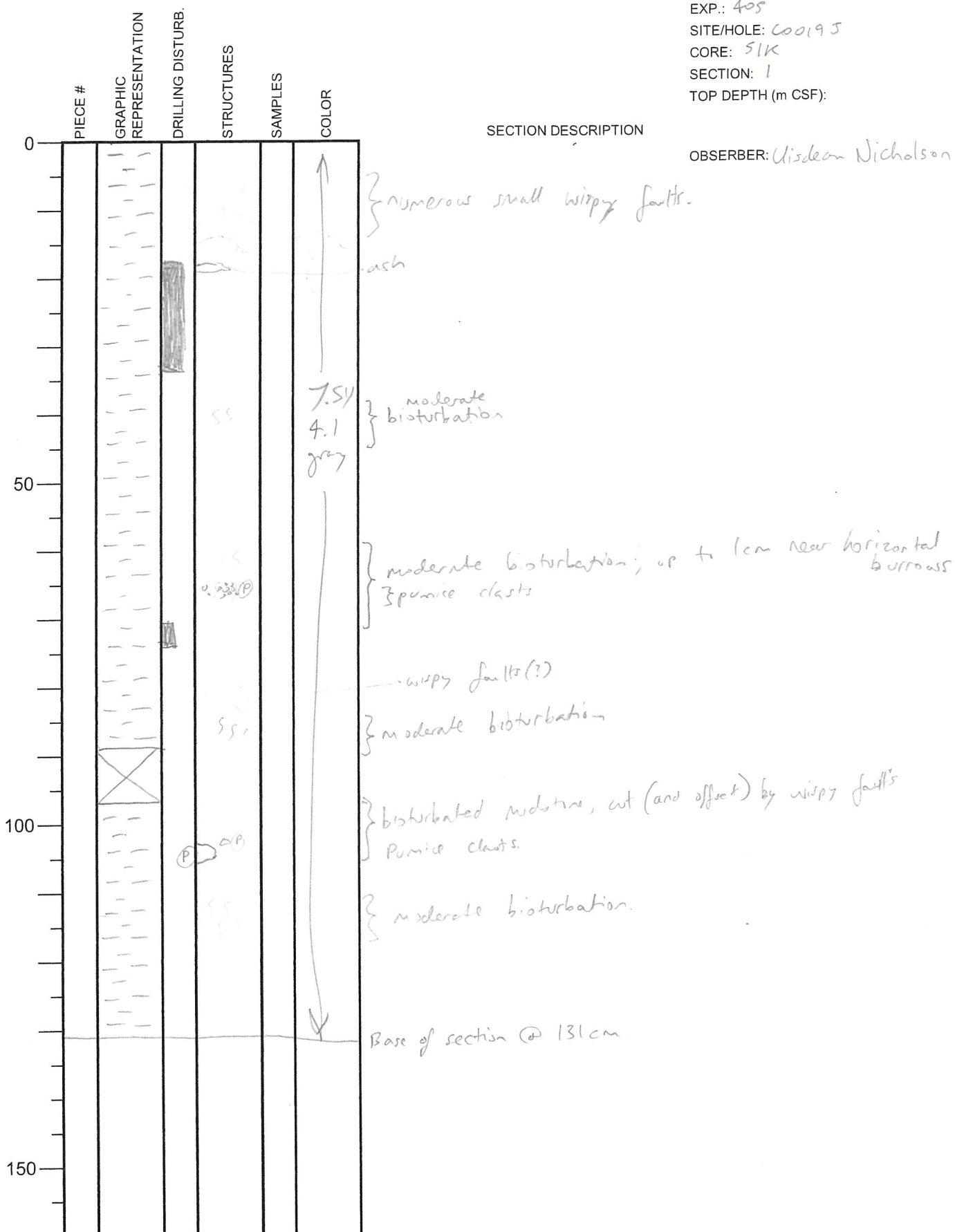
Gray mud, silty in places.

Base of core @ 30m

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 17/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 51K
 SECTION: 1
 TOP DEPTH (m CSF):



NO. 2
DATE: 17/10/2024
EXP.: 405
SITE/HOLE: C0019 J
CORE: 51K
SECTION: 2
TOP DEPTH (m CSF):

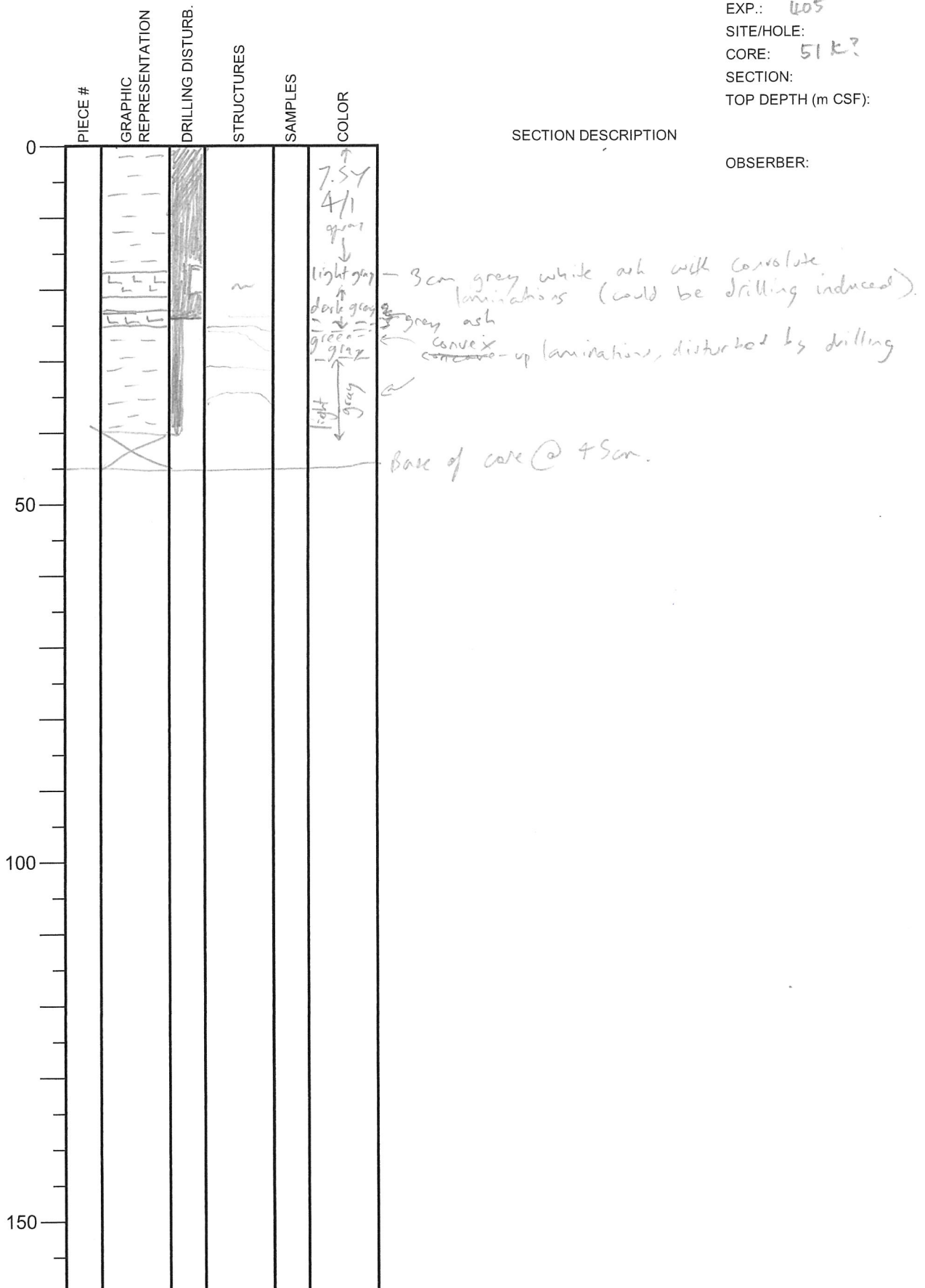
VCD_sheet_160629

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 17/10/20
EXP.: 405
SITE/HOLE:
CORE: 51K?
SECTION:
TOP DEPTH (m CSF):

OBSERVER:



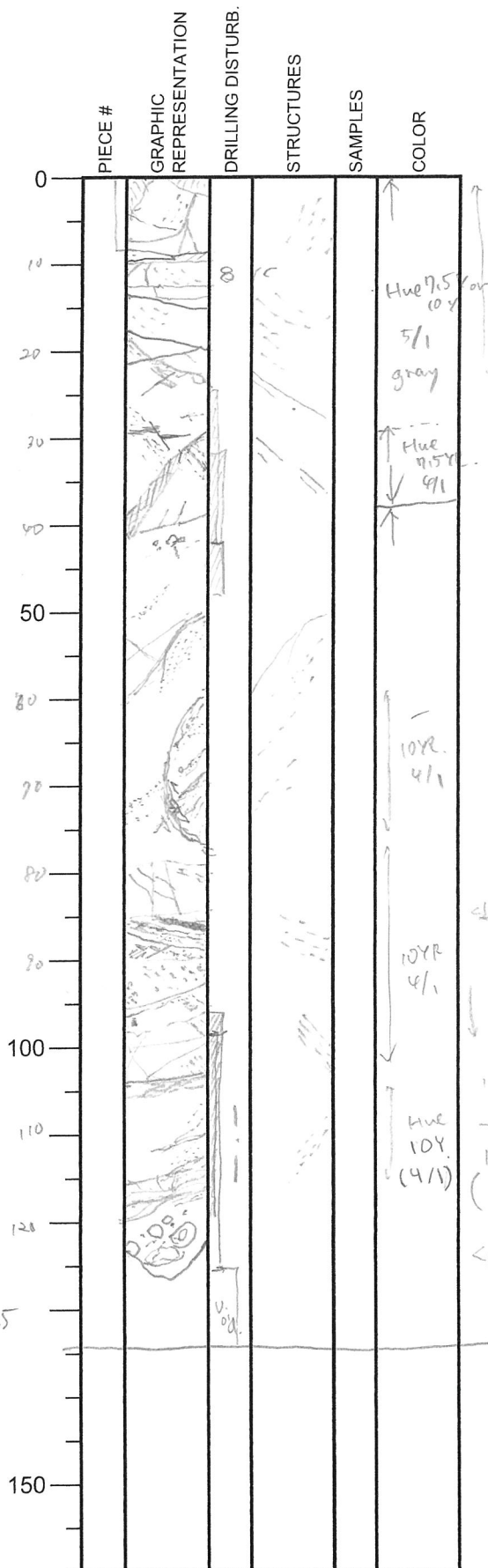
10% class
section

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 12/10/20
EXP.: 405
SITE/HOLE: 0009J
CORE: 52 K
SECTION: 1
TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: Rina, Fabrich.



0-39 cm
Ashy mud poorly sorted black sandy mud.
gray.

39-42 cm Hue 7.5/10Y gray

42-48 cm slightly poorly sorted (yellowish) fine no v.f. to sil. increase.
brownish gray

40 cm deformation band cutted - those thin change.

48-52 cm Hue 7.5/10Y brownish gray (fine sand size?) Sandy mud.

52-58 cm 10YR 4/1

58-62 cm 10YR 4/1

62-68 cm 10YR 4/1

68-72 cm 10YR 4/1

72-78 cm 10YR 4/1

78-82 cm 10YR 4/1

82-88 cm 10YR 4/1

88-92 cm 10YR 4/1

92-98 cm 10YR 4/1

98-102 cm 10YR 4/1

102-108 cm 10YR 4/1

108-112 cm 10YR 4/1

112-118 cm 10YR 4/1

118-122 cm 10YR 4/1

122-128 cm 10YR 4/1

128-134.5 cm 10YR 4/1

134.5 cm V. 02

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 18/10/20
 EXP.: 405
 SITE/HOLE: 0019J
 CORE: 52K
 SECTION: 2
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
10					2.54 5/1
20					2.15
30					2.2 2.54 5/1
40					5/1
50					5/1
60					5/1 5/1 5/1
70					72
80					2.54 5/1
90					90.5
100					111
150					

SECTION DESCRIPTION

OBSERVER: Rina Fukuda

0 ~ 51 cm
 yellowish gray mud (clayey silt size)

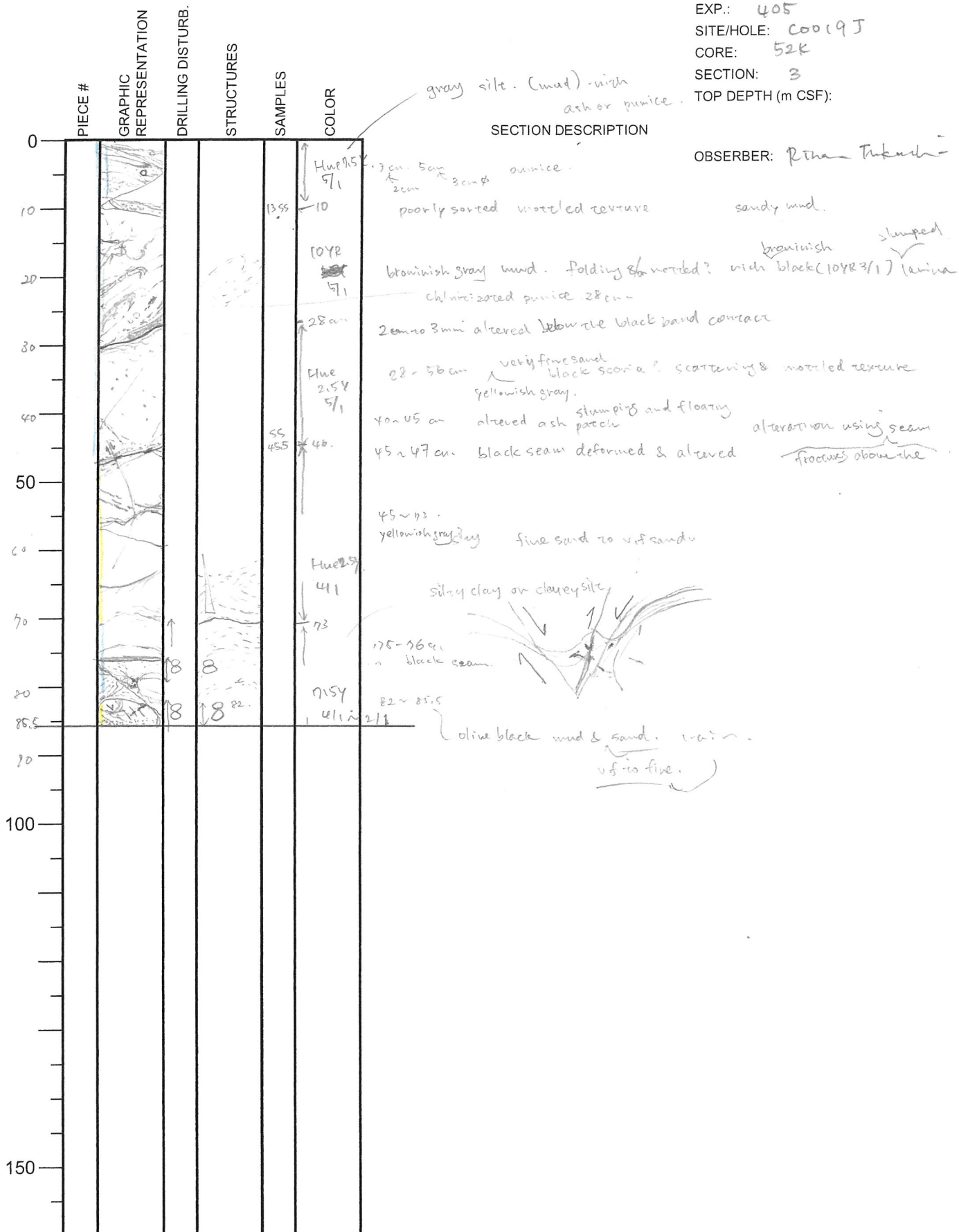
60 ~ 72 cm
 yellowish gray
 v.f. to fine sand
 72 ~ 90 cm
 silty clay (mud)
 90 cm black seam + wicker!

yellowish gray mud with
 deformation and black seam

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 18/10/20
EXP.: 405
SITE/HOLE: C0019J
CORE: 52K
SECTION: 3
TOP DEPTH (m CSF):

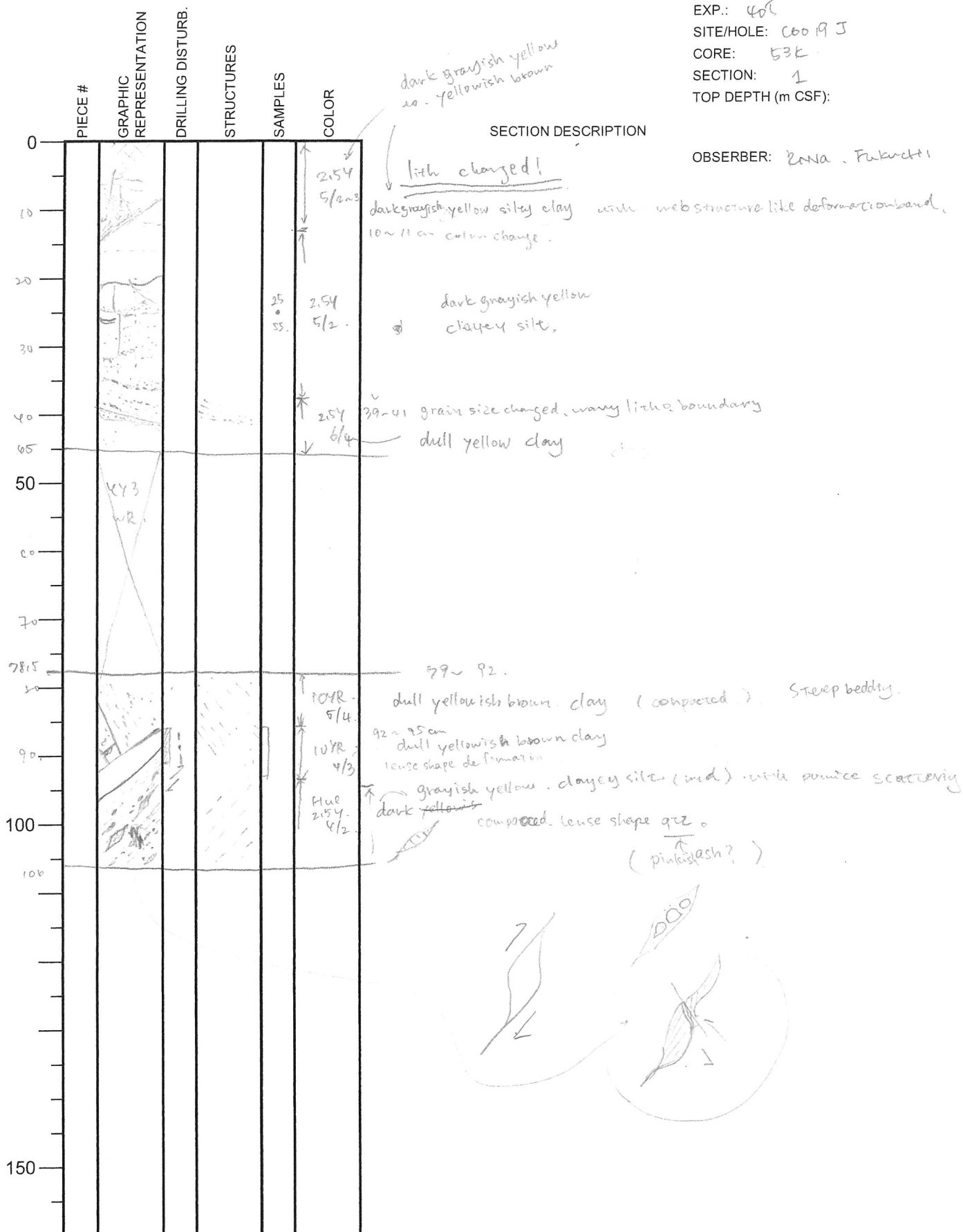
OBSERVER: R. Th. Tink



International Ocean Discovery Program

Visual Core Description

NO.
DATE: 18/10/20
EXP.: 406
SITE/HOLE: C0019 J
CORE: 53E
SECTION: 1
TOP DEPTH (m CSF):



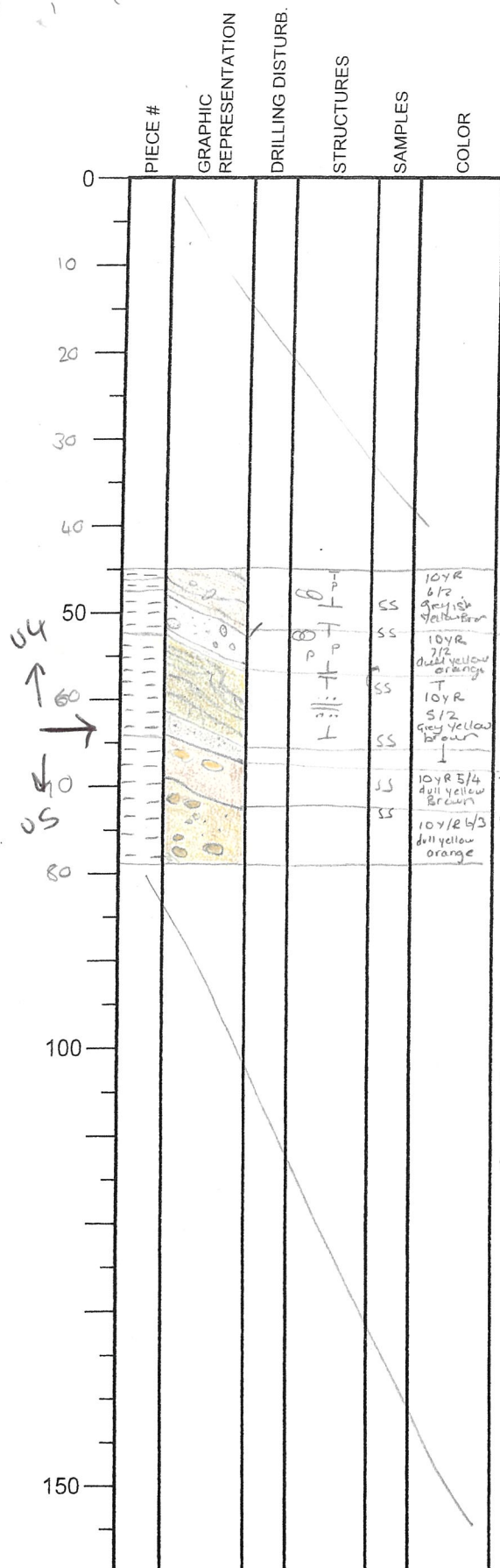
IMPORTANT

- Above principle
- fault zone

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 22/10/2024
EXP.: 405
SITE/HOLE: 0019J
CORE: S3K
SECTION: 1
TOP DEPTH (m CSF):

OBSERVER: Amy G



SECTION DESCRIPTION

Lots of subtle colour changes - described in detail due to fault

END OF CORE swirls of ash

Ashy mudstone

Ashy mudstone

ashier layer w/ laminations either side

Ashy mudstone

wavy black laminae

mudstone Black mottling

Ashy mudstone

pumice clasts @ top

Ashy mudstone

flecks of ash throughout

START OF CORE

SS @ 49: lighter background material

SS @ 53: bed of very slightly siltier material

SS @ 58: dark seams

SS @ 64: Background material above lith change

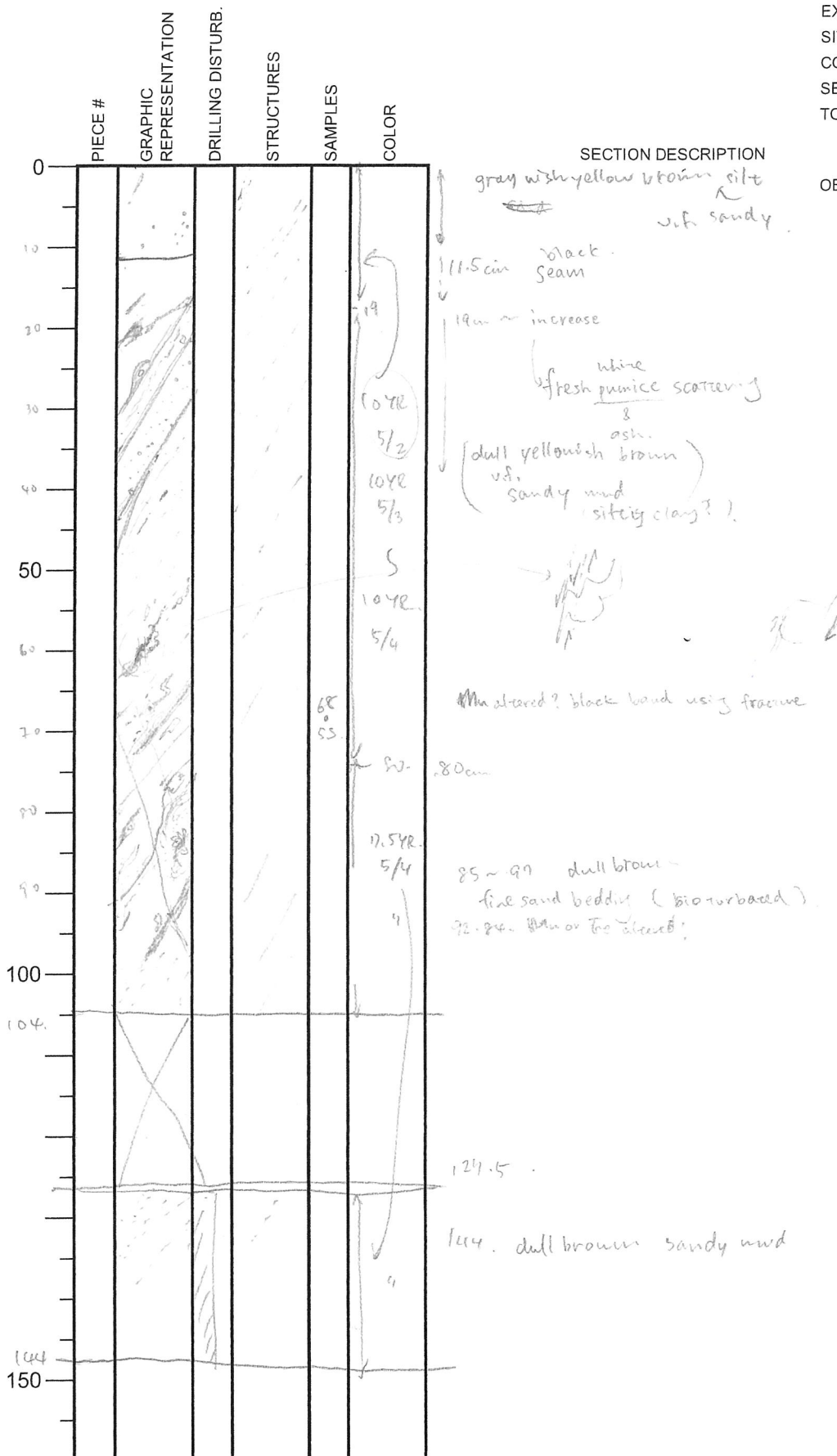
SS @ 73: lower lighter material below lith change

SS @ 69: darker material below lith change

International Ocean Discovery Program Visual Core Description

NO.
DATE: 18/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 53 K
SECTION: 2
TOP DEPTH (m CSF):

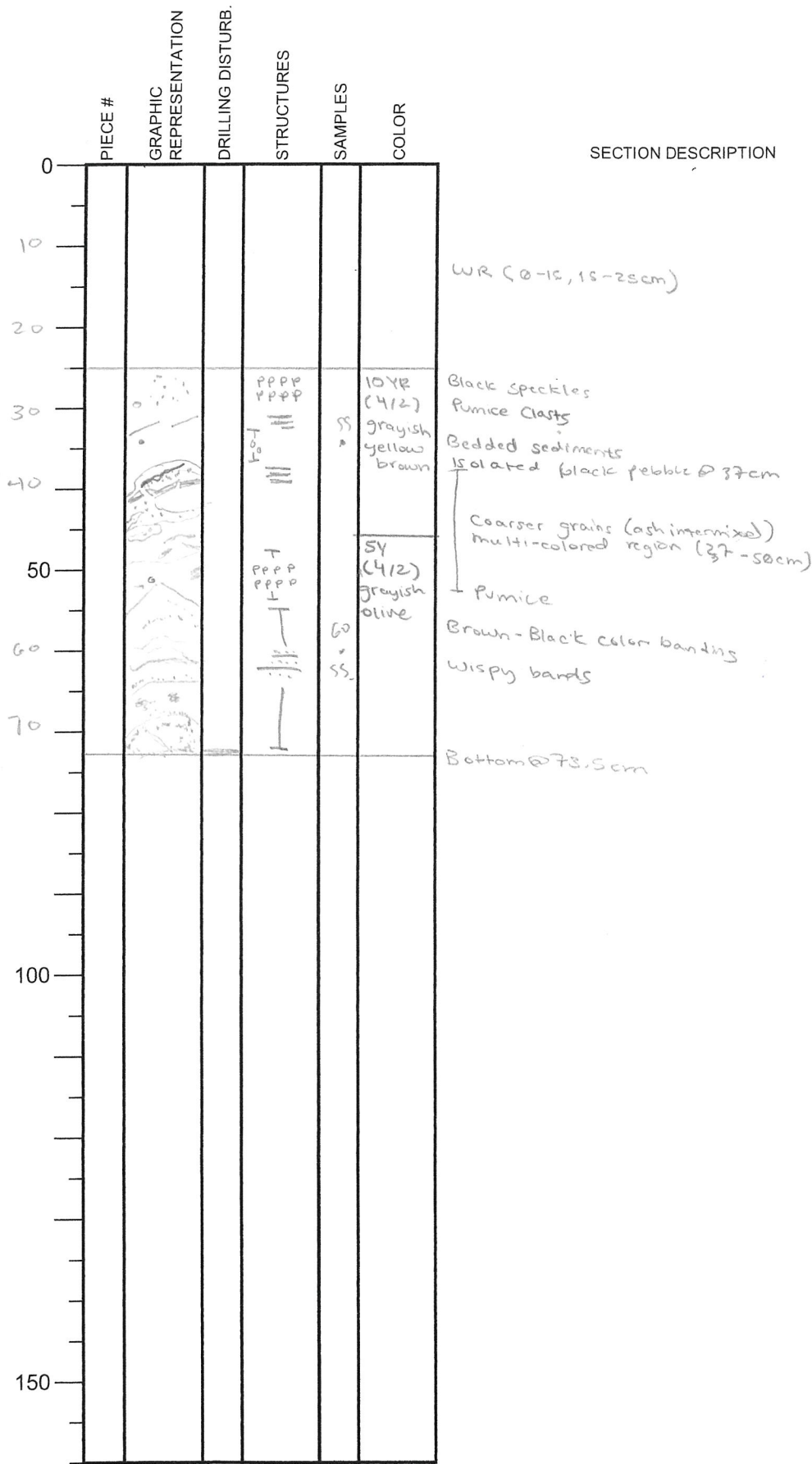
OBSERVER: R. N. F. Kuchin



International Ocean Discovery Program
Visual Core Description

NO. 3
DATE: 18 / 10 / 2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 53K
SECTION: 3
TOP DEPTH (m CSF):

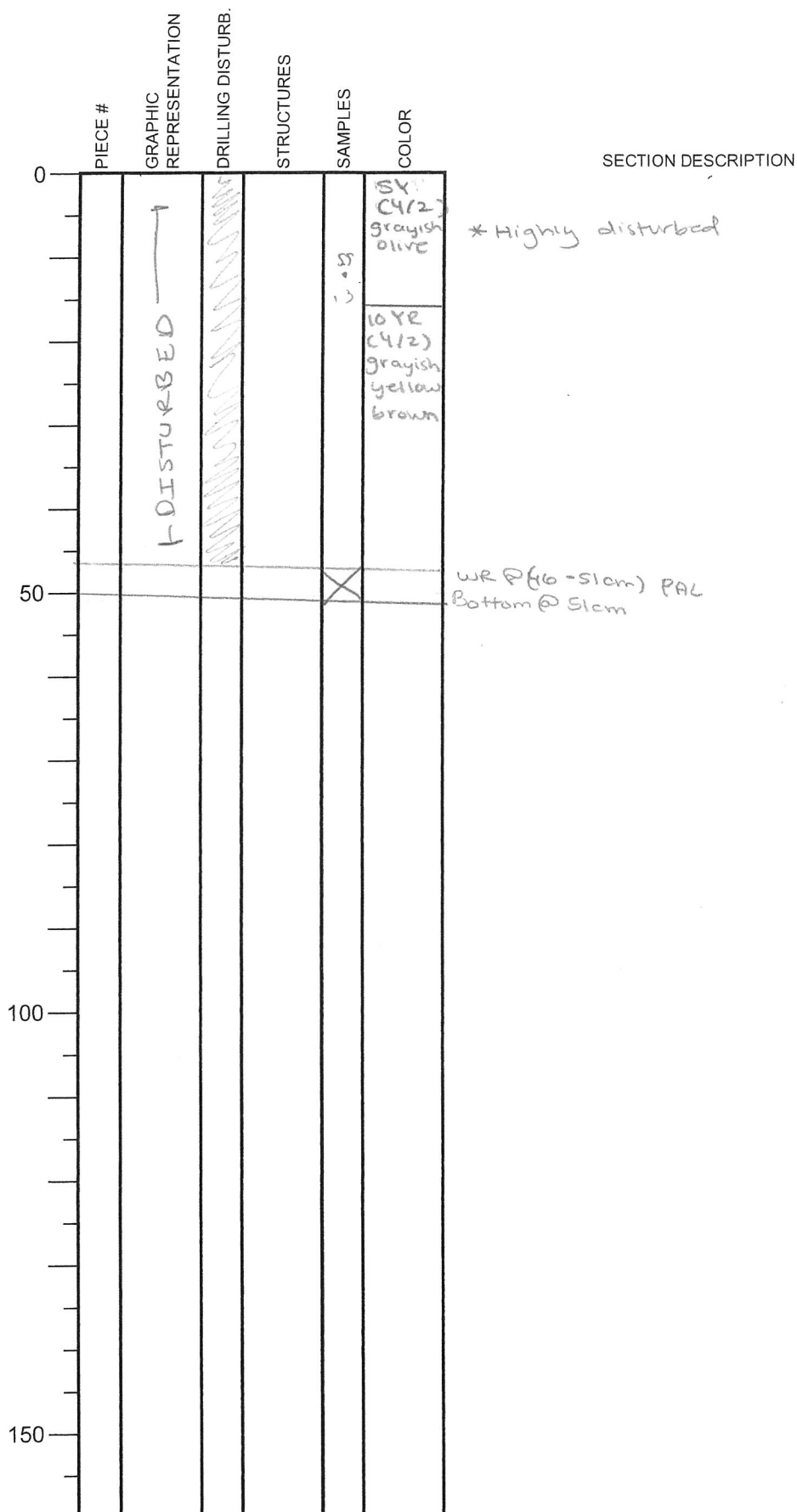
OBSERVER: René Castillo



International Ocean Discovery Program Visual Core Description

NO. 4
DATE: 18/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 405
SECTION: S3 K CC?
TOP DEPTH (m CSF):

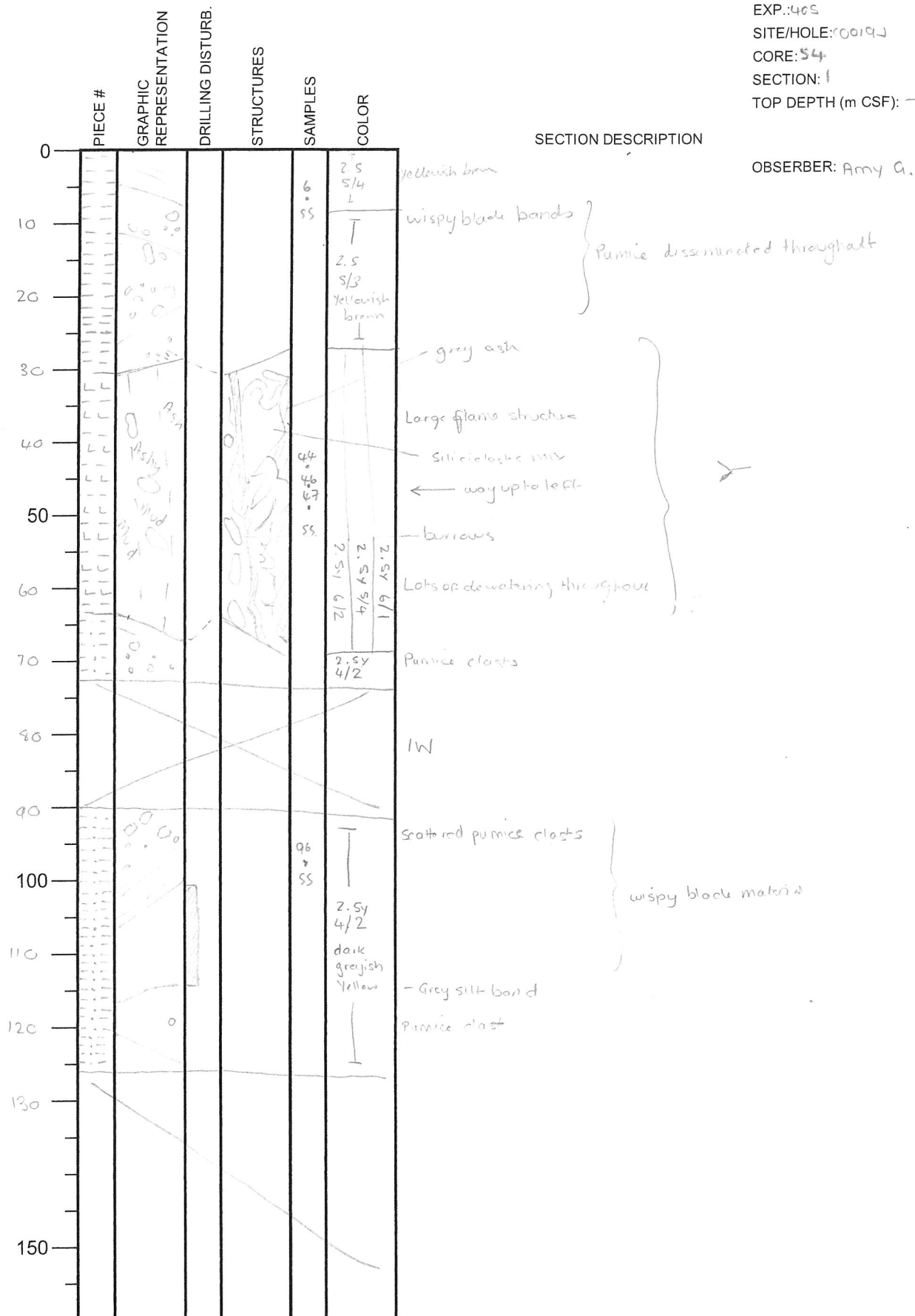
OBSERVER: René Castillo



International Ocean Discovery Program

Visual Core Description

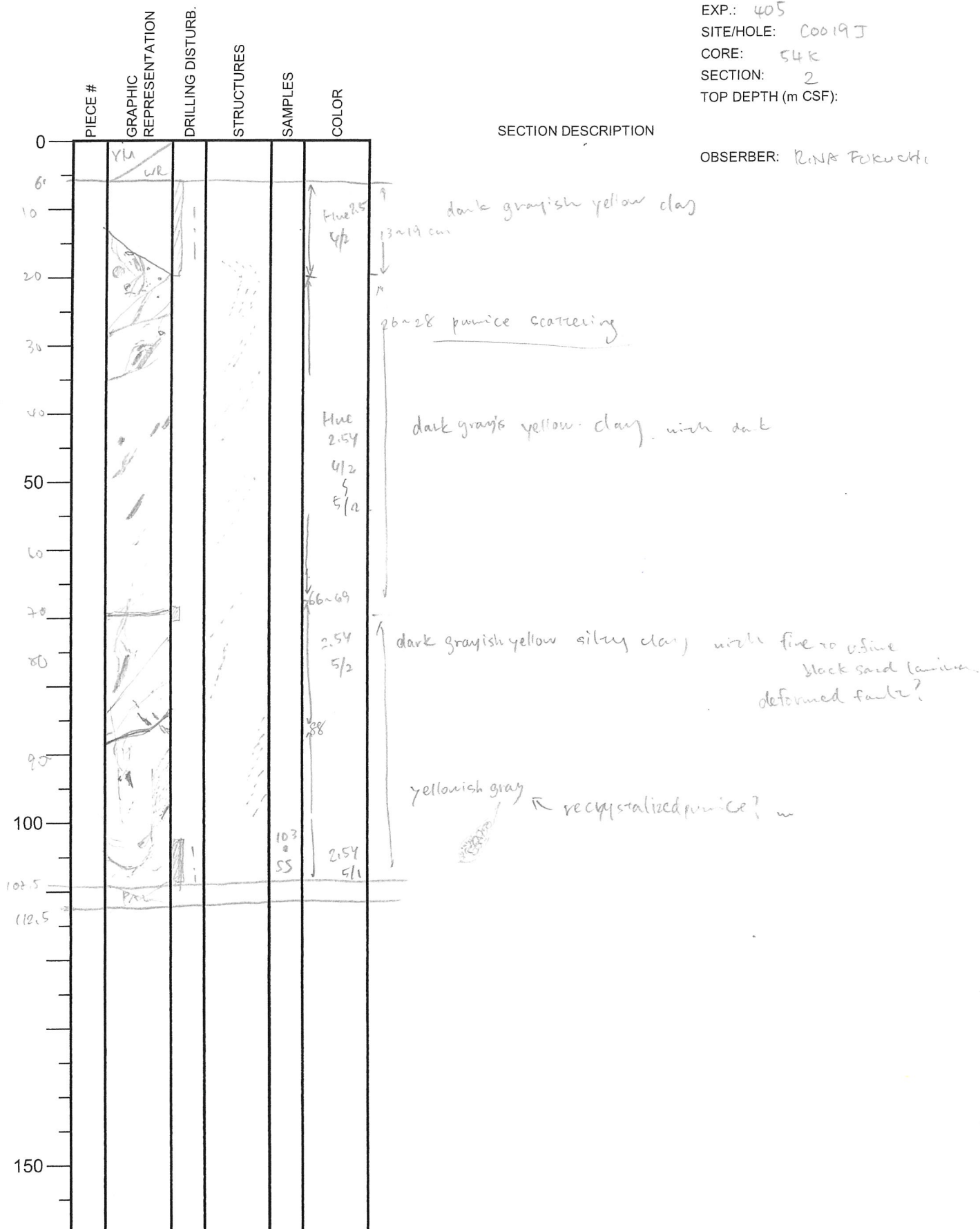
NO. 1
 DATE: 18 / 10 / 2024
 EXP.: 405
 SITE/HOLE: 00192
 CORE: 54
 SECTION: 1
 TOP DEPTH (m CSF): —



International Ocean Discovery Program

Visual Core Description

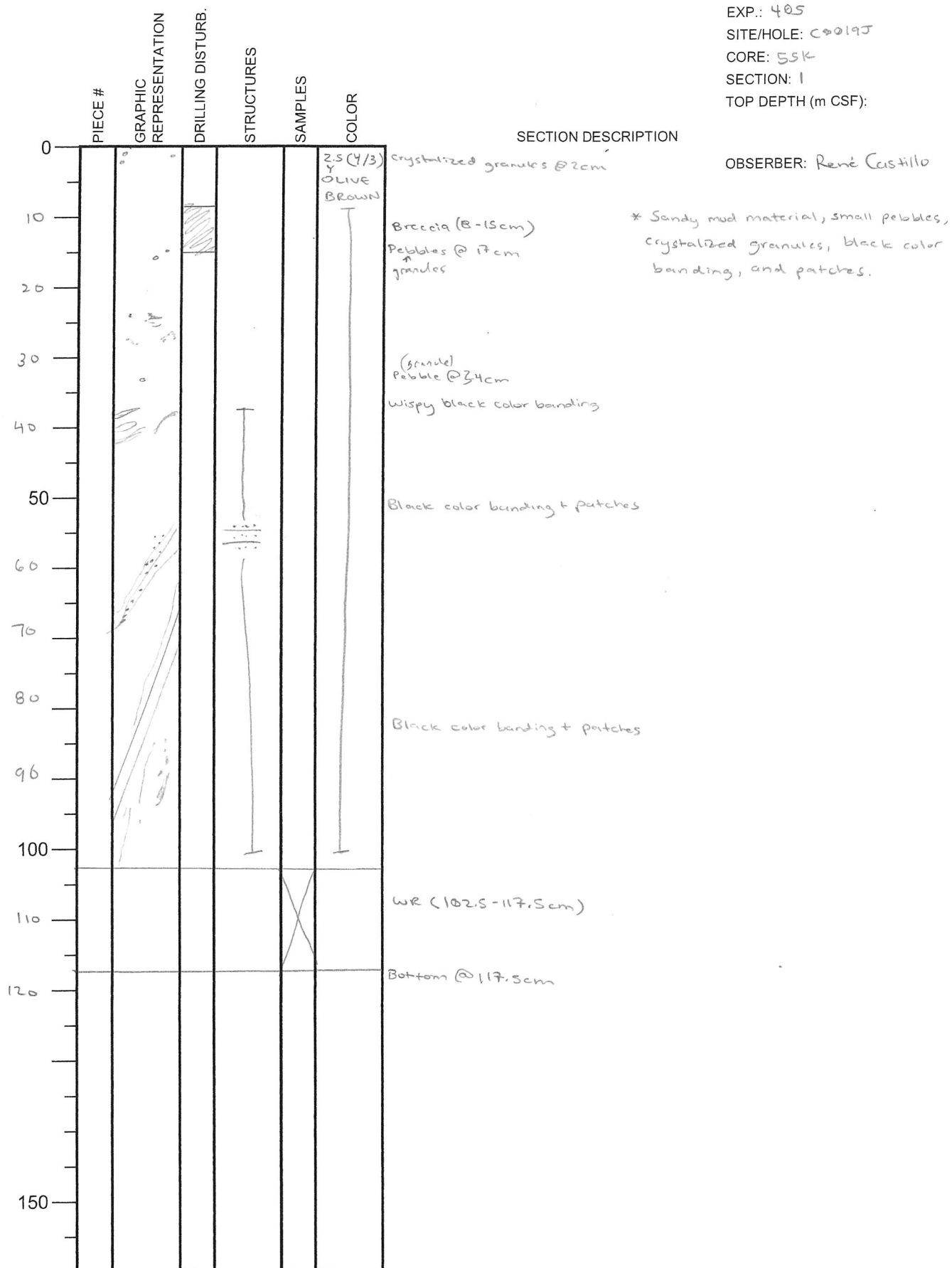
NO.
DATE: 18/10/20
EXP.: 405
SITE/HOLE: C0019J
CORE: 54K
SECTION: 2
TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

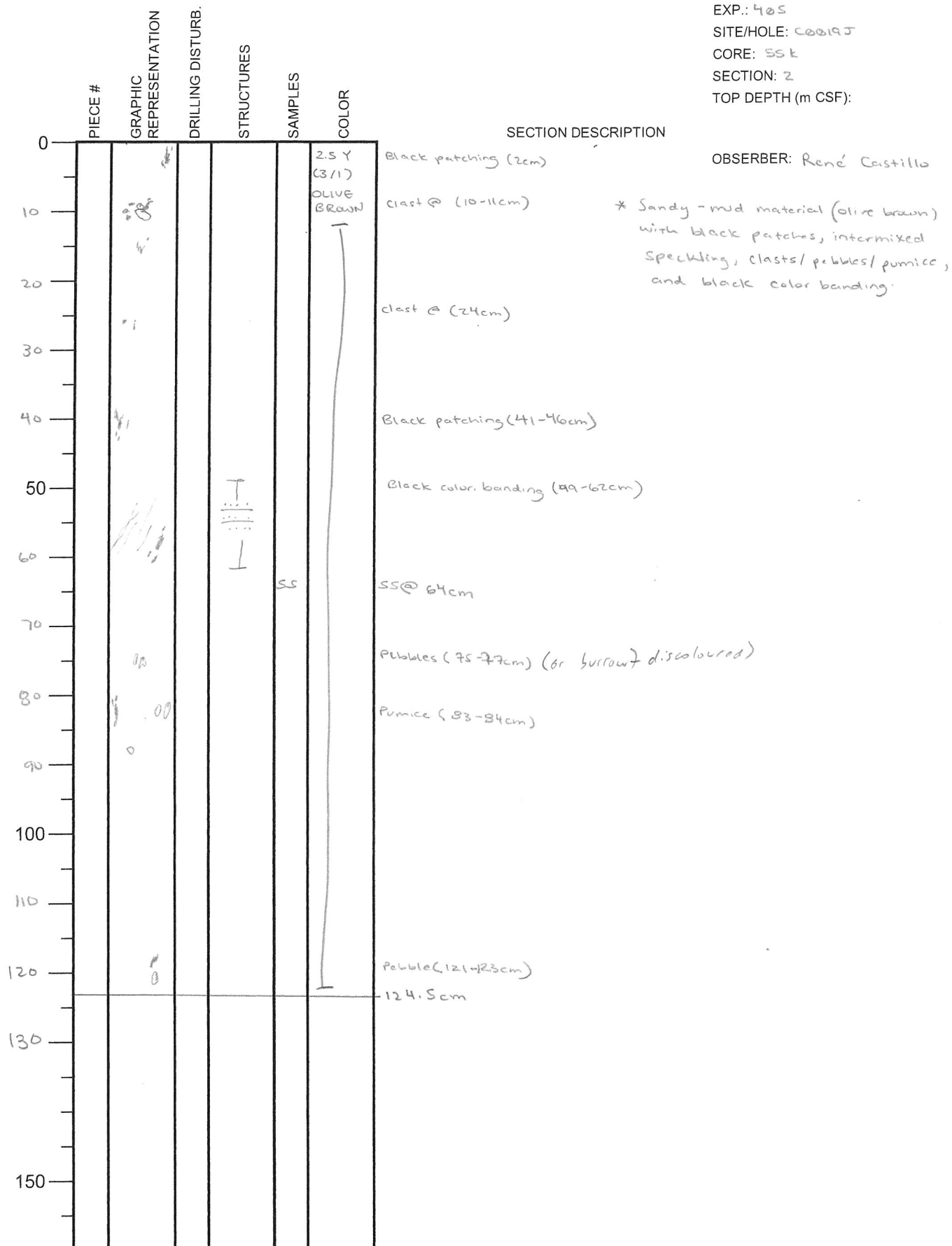
NO. 1
 DATE: 18/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 55K
 SECTION: 1
 TOP DEPTH (m CSF):



International Ocean Discovery Program

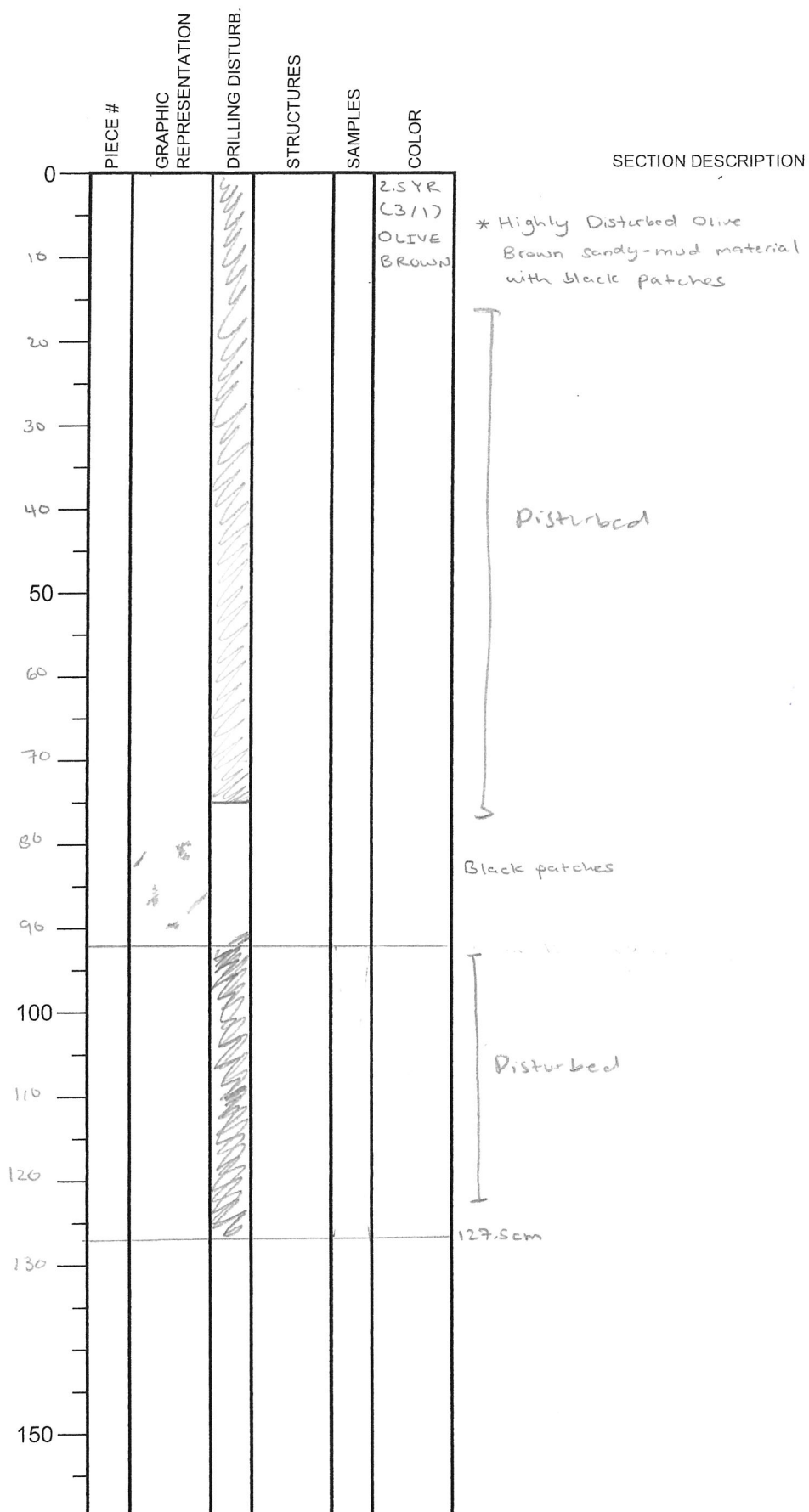
Visual Core Description

NO. 2
 DATE: 18 / 10 / 20 24
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: SSk
 SECTION: 2
 TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 18/10/20 24
EXP.: 405
SITE/HOLE: C00195
CORE: 55K
SECTION: 3
TOP DEPTH (m CSF):

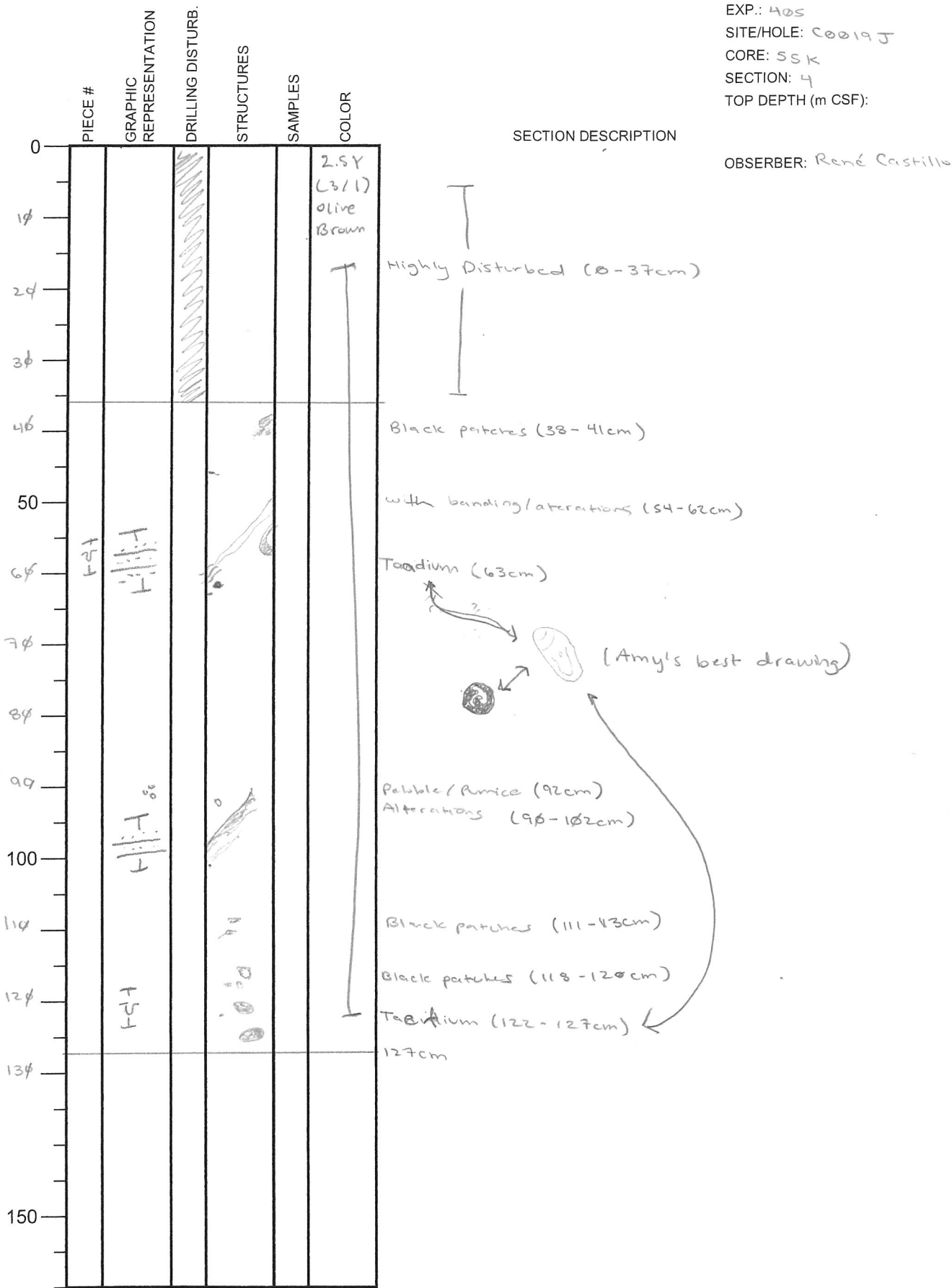


OBSERVER: René Castillo

International Ocean Discovery Program

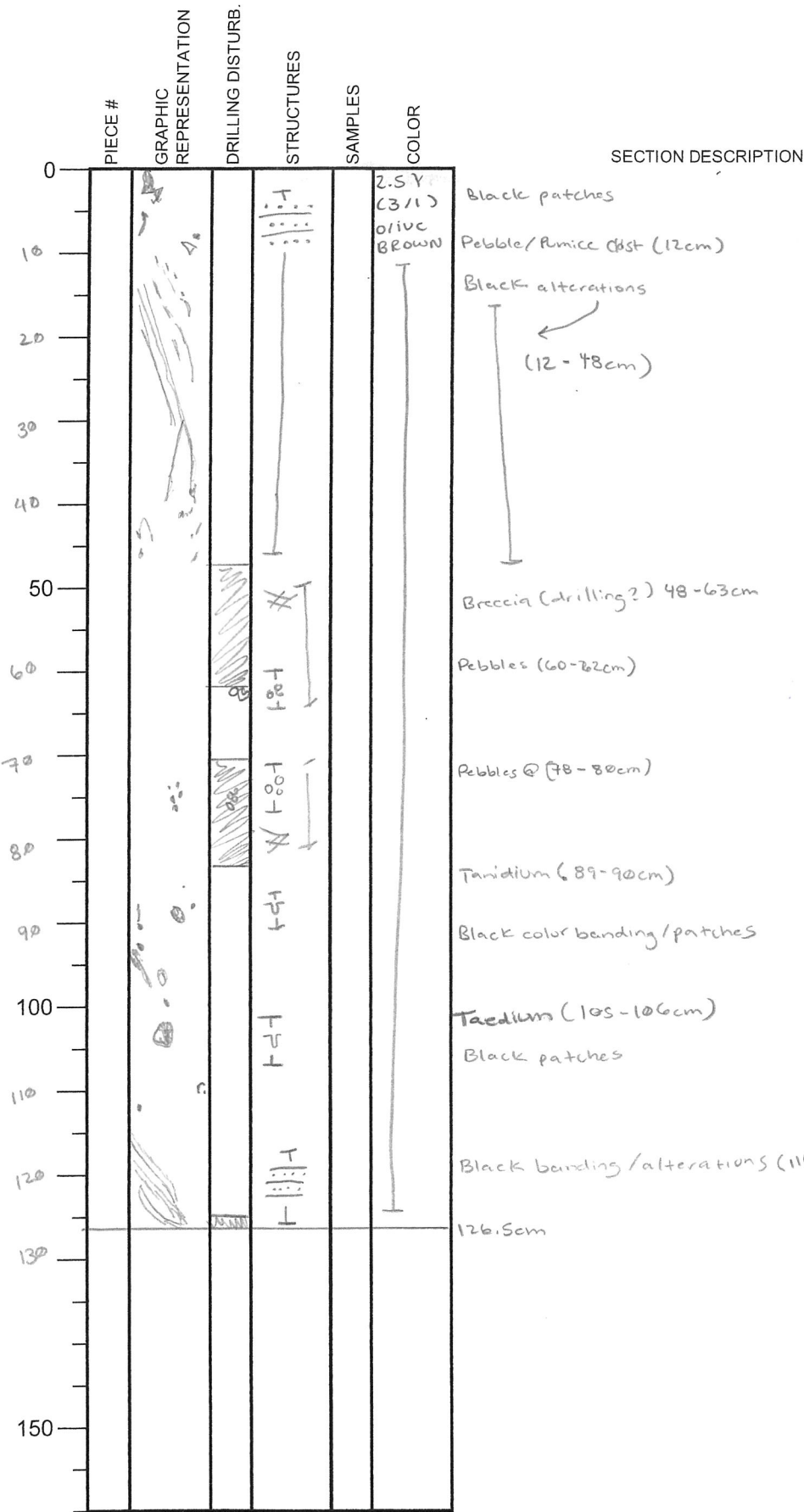
Visual Core Description

NO. 4
 DATE: 10/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 55K
 SECTION: 4
 TOP DEPTH (m CSF):



International Ocean Discovery Program
Visual Core Description

NO. 5
DATE: 18/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 55F
SECTION: 5
TOP DEPTH (m CSF):

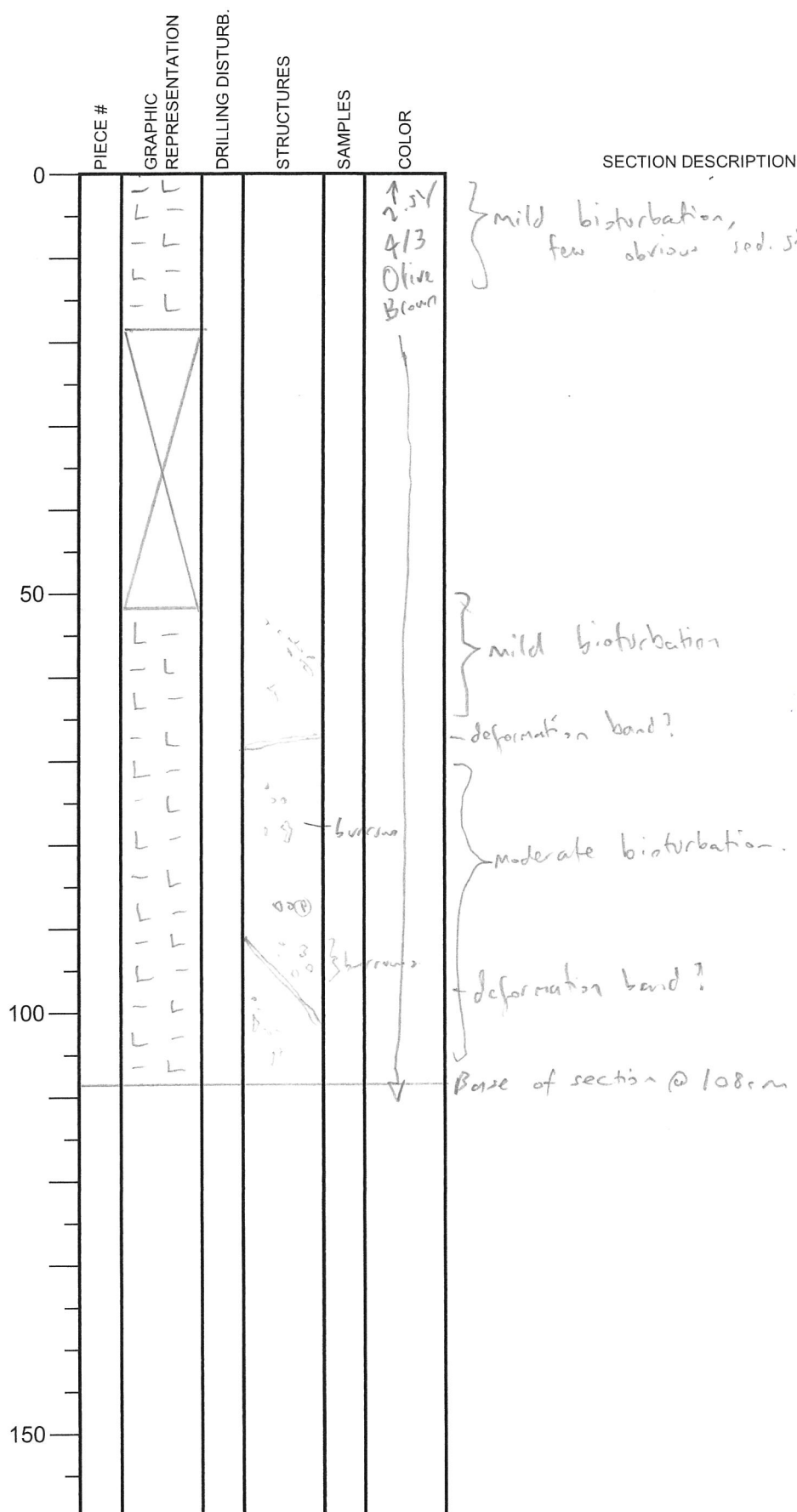


OBSERVER: René Castillo
*Olive Brown mudstone/ashy with bioturbation (taedium), pebbles, color banding (black) and patches.

International Ocean Discovery Program

Visual Core Description

NO. 6
 DATE: 18/10/2029
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 55K
 SECTION: 6
 TOP DEPTH (m CSF):



OBSERVER: Visdean Nicholson

* SS - siliceous ooze

NO. 7
DATE: 18/19/2024
EXP.: 405
SITE/HOLE: 600195
CORE: 55K
SECTION: 7
TOP DEPTH (m CSF):

VCD_sheet_160629

International Ocean Discovery Program

Visual Core Description

NO. 8
 DATE: 18/10/2029
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 55K
 SECTION: CC
 TOP DEPTH (m CSF):

OBSERVER: Ujdaan Nicholson

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0	L - - L - L - L				2-54 4/3 Olive Brown ↓
	X				
50					
100					
150					

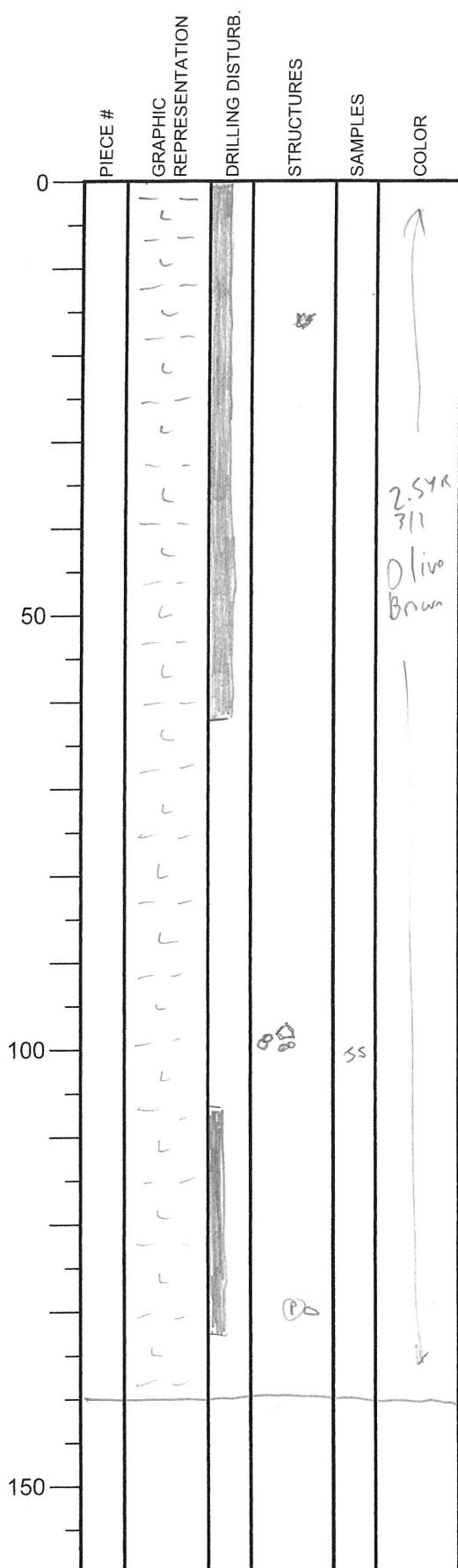
SECTION DESCRIPTION

SS - siliceous ooze

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 18/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: #56K
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

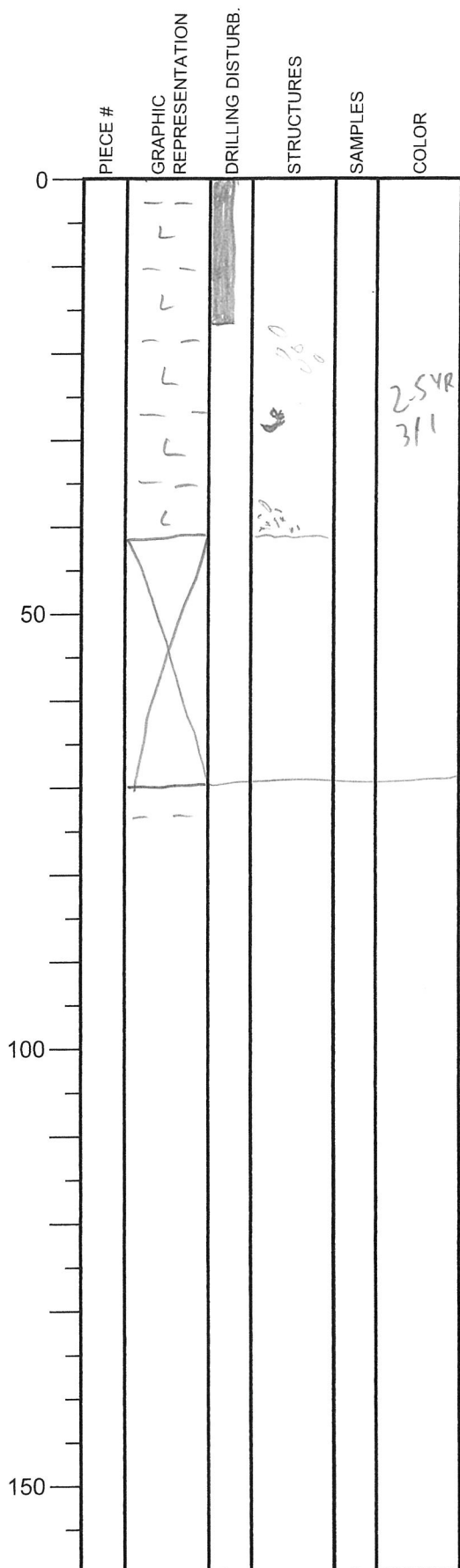
OBSERVER: Uisdean Nicholson

Olive brown mudstone,
 bioturbated throughout

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 18/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 56K
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: *Warden Nicholson*

Olive brown mudstone {disturbed throughout

} more intense bioturbation with discrete 1cm diameter oval burrows, and smaller burrows
 - burrow

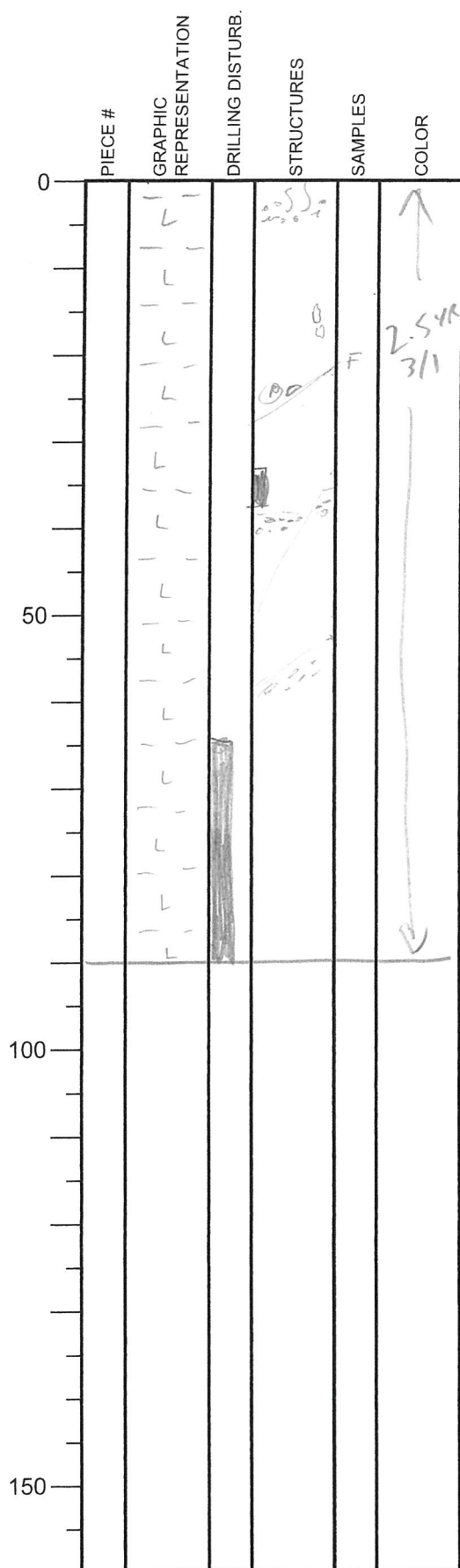
} more intense burrowing, black burrow fill, small, 1-5mm burrows

Base section @

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 18/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 56
 SECTION: 3
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

} more intense bioturbation

OBSERVER: O. Nicholson

Olive brown
 mudstone,
 bioturbated
 throughout

} bioturbation bedding surface, faulted

- bedding? or fault?
 } more intense bioturbation (moderate)

} more intense brecciation

Base section @ 90 cm.

NO. 4
DATE: 18/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 5BK
SECTION: 4
TOP DEPTH (m CSF):

OBSERVER: U. Nicholson

SECTION DESCRIPTION

Olive brown mudstone,
completely brecciated by drilling

Base section

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
					2-540 3/1
50					
100					
150					

International Ocean Discovery Program Visual Core Description

NO. *S*
DATE: *18/10/2024*
EXP.: *405*
SITE/HOLE: *COO19J*
CORE: *S6K*
SECTION: *S*
TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

OBSERVER: *U. Nicholas*

WR - For transition between
Olive brown mudstone
and Olive-black mudstone.

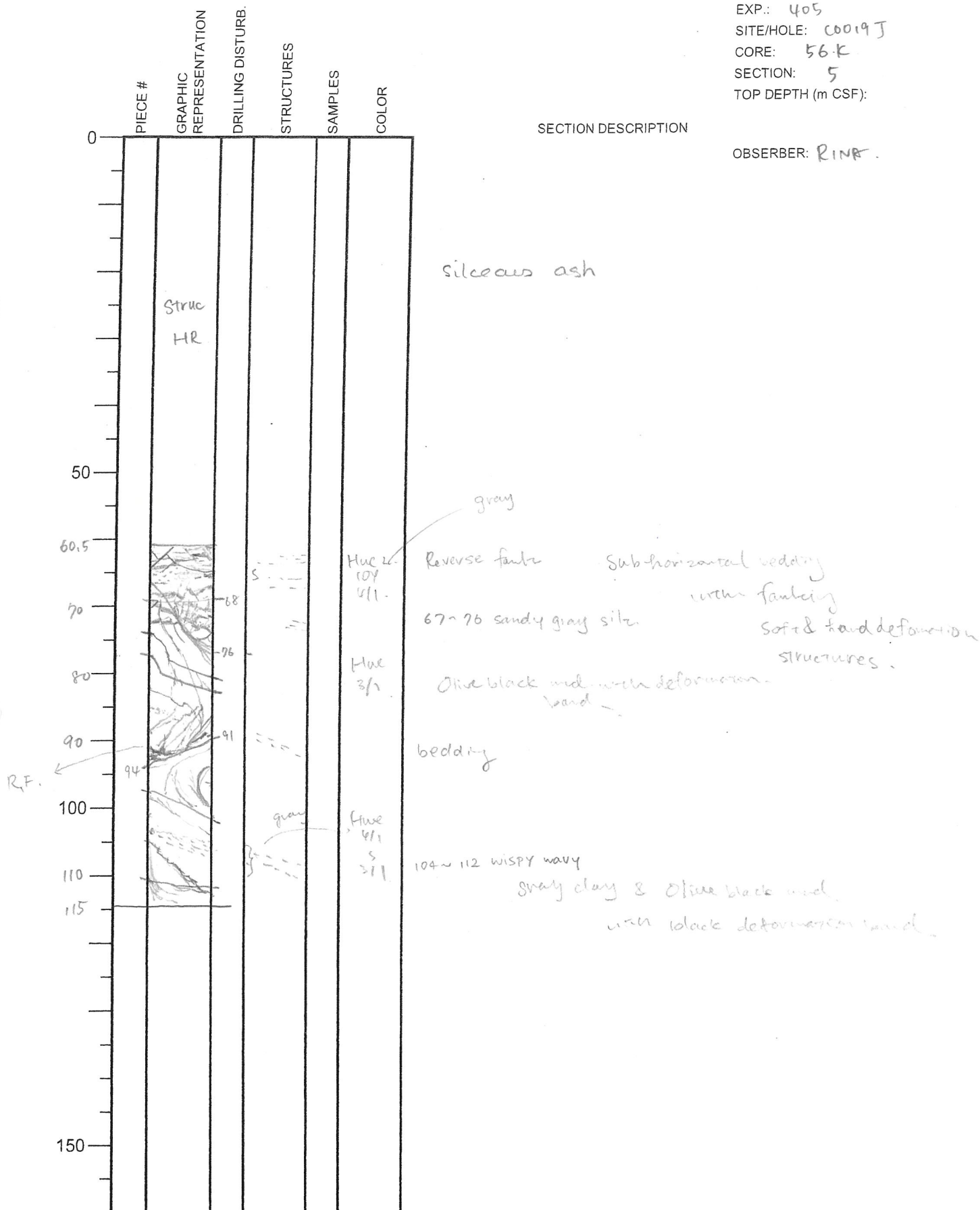
4 6A

International Ocean Discovery Program Visual Core Description

NO.
DATE: 22/10/20
EXP.: 405
SITE/HOLE: C0019J
CORE: 56-K
SECTION: 5
TOP DEPTH (m CSF):

SECTION DESCRIPTION

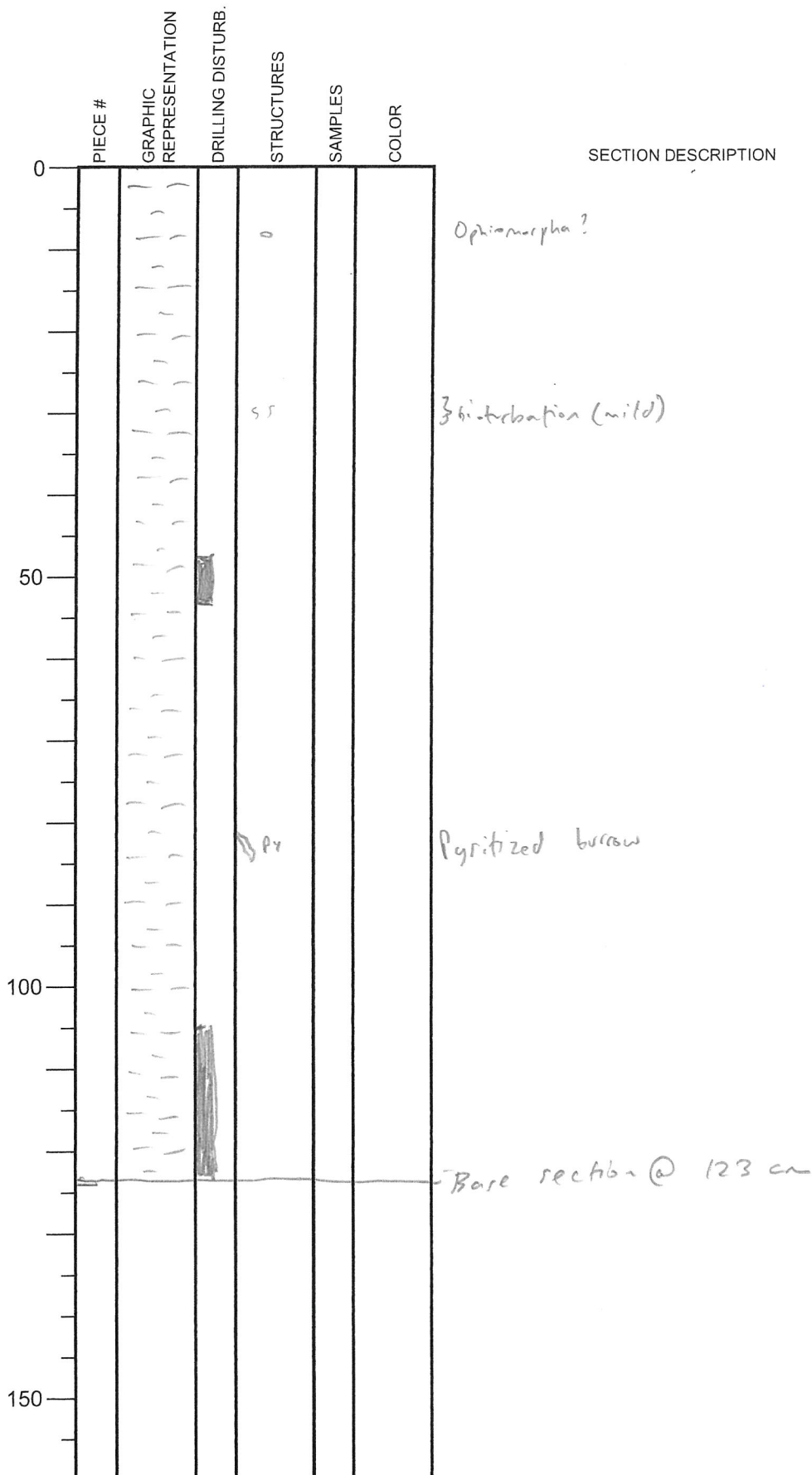
OBSERVER: RINA



International Ocean Discovery Program

Visual Core Description

NO. 6
 DATE: 12/19/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: S6K
 SECTION: 6
 TOP DEPTH (m CSF):



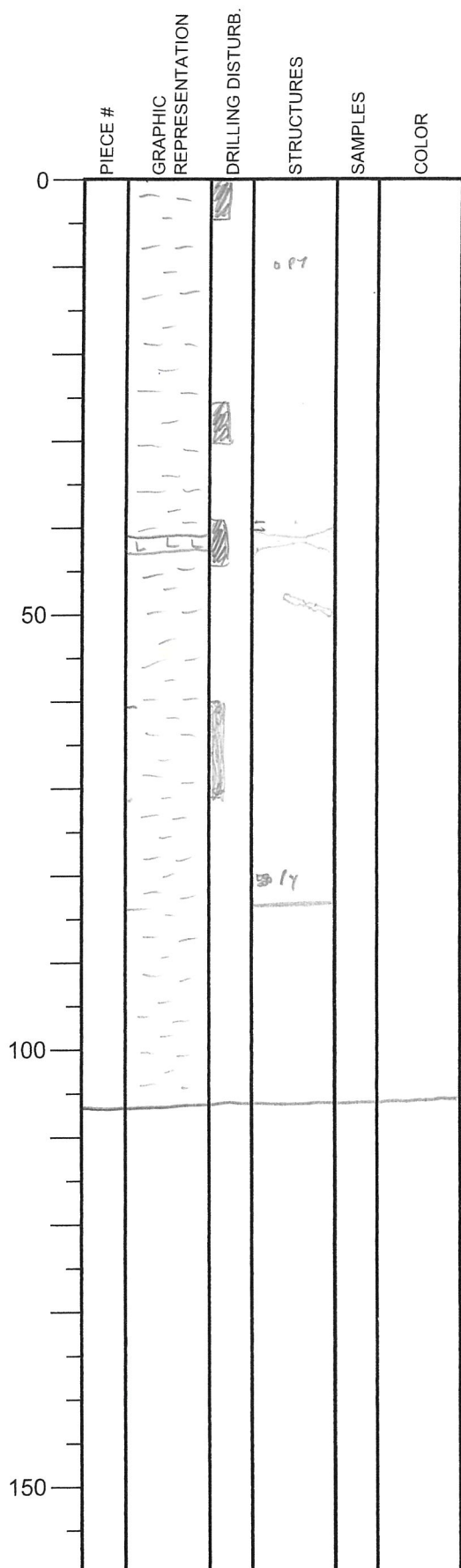
OBSERVER: U. Nicholson

Olive-black mudstone,
 bioturbated in places,
 pyritized burrows +
 pumice.

International Ocean Discovery Program

Visual Core Description

NO. 7
 DATE: 18/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: S6k
 SECTION: 7
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: U. Nicholson

concave/convex top and base - bisectioning.

Pyritized basins

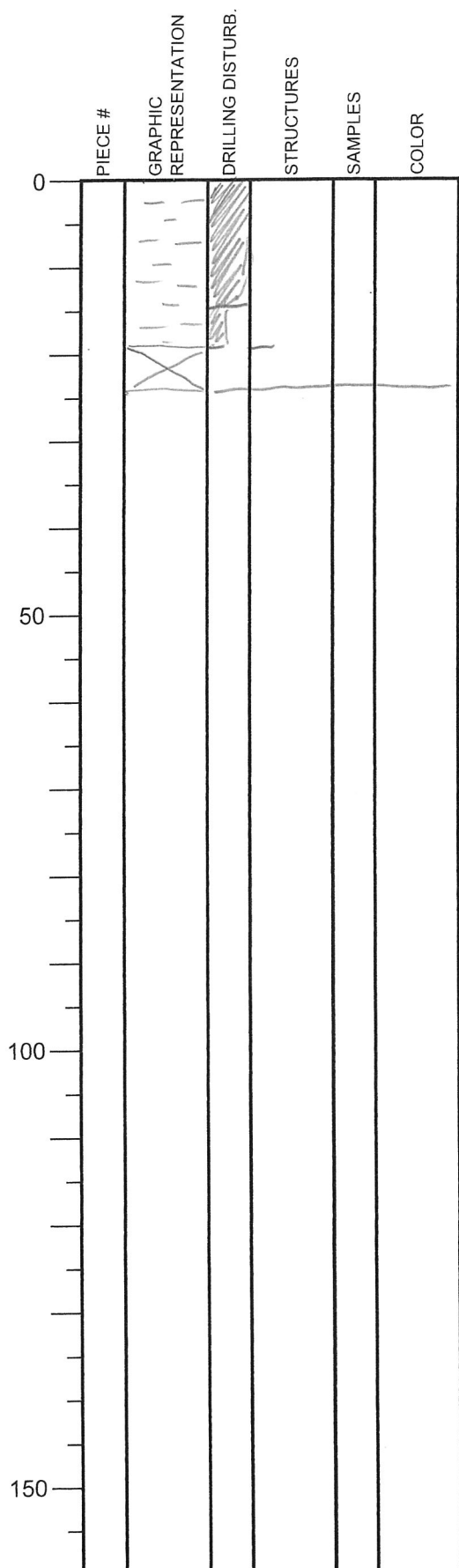
Pyritized pumice
 Black band (lamina?) at 83cm

Base section @ 107 cm.

International Ocean Discovery Program

Visual Core Description

NO. 8
 DATE: 18/10/20 24
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 56k
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

Olive black mudstone.

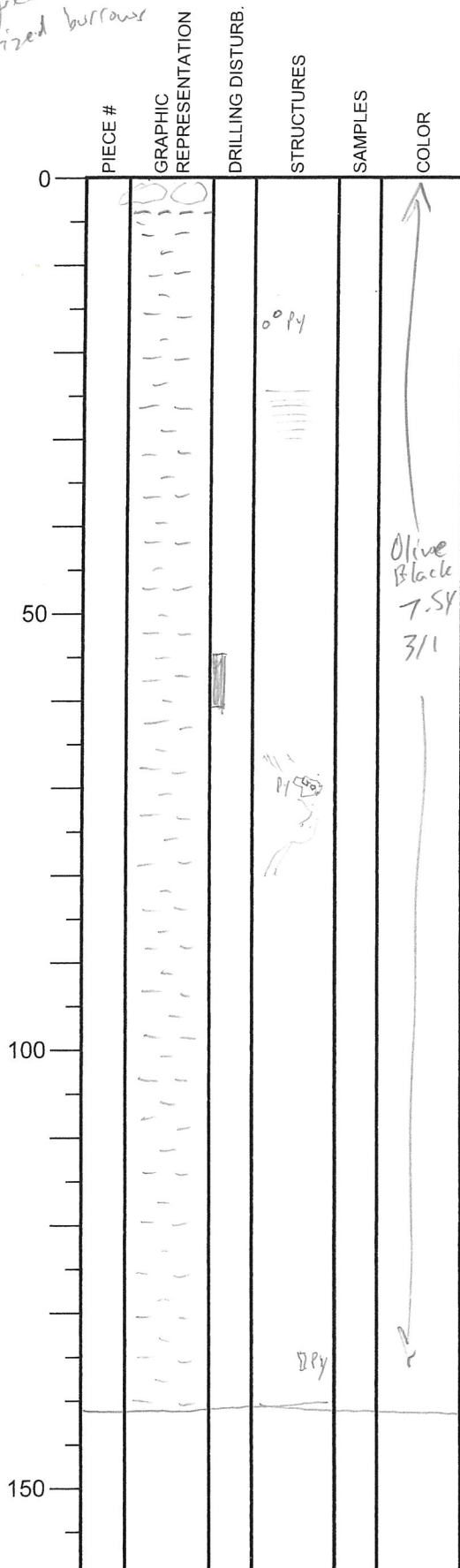
OBSERVER: U. Nicholson.

Base of core @ 24cm

International Ocean Discovery Program Visual Core Description

Olive black
mudstone,
subtle green banding
+ pyritized burrows

NO. 1
DATE: 12/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 57K
SECTION: 1
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: U. Nishikawa

- Olive brown clasts - likely from section above
Mild disturbance

subtle green colour banding, offset by faults.

- partially pyritized burrow
- convolute lamination 87-81, picked out by green band

- Pyritized burrow
Base of section @ 141.5 cm.

International Ocean Discovery Program

Visual Core Description

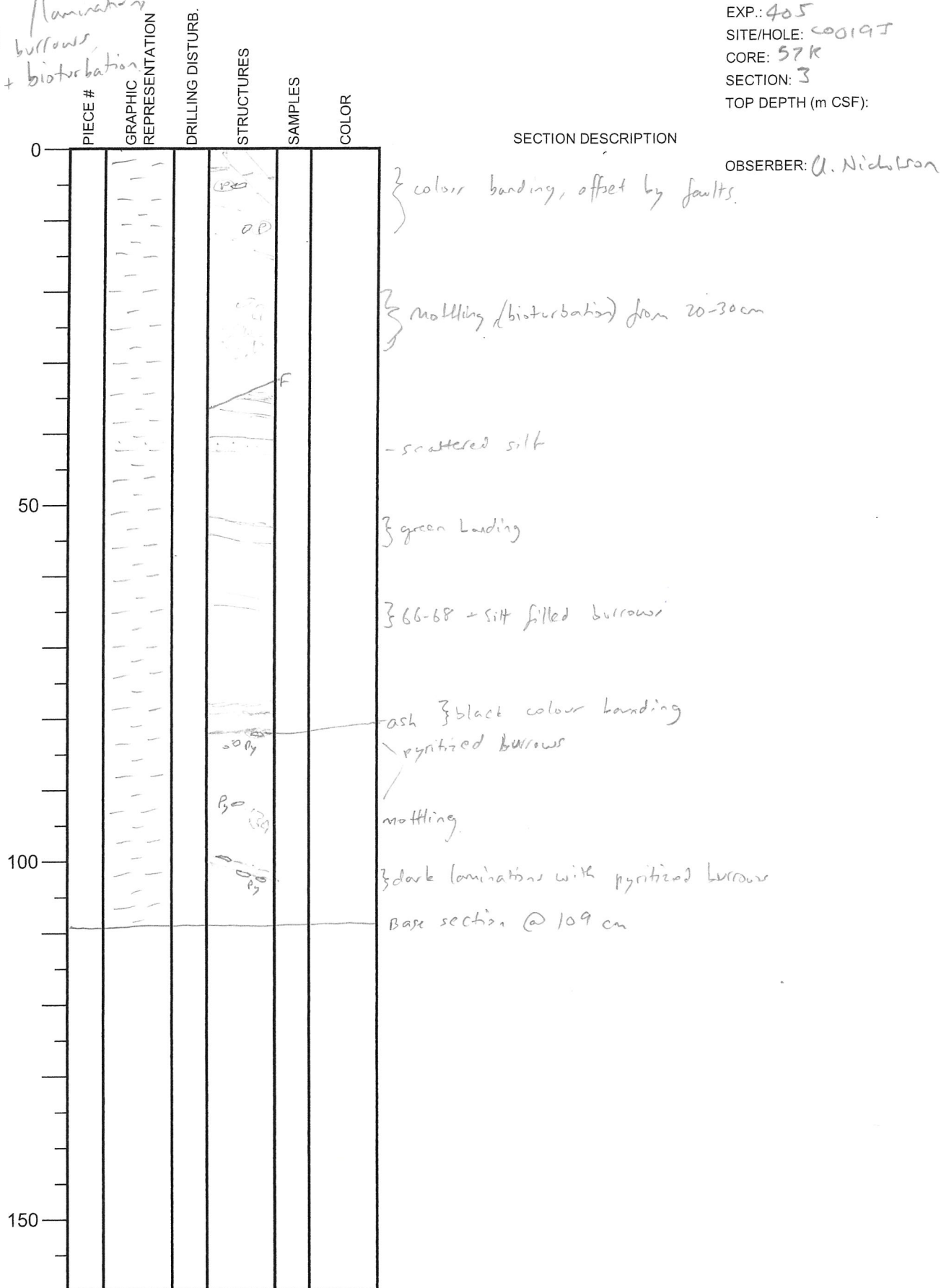
NO. 2
 DATE: 18/10/2024
 EXP.: 405
 SITE/HOLE: C00193
 CORE: STK
 SECTION: 2
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0						OBSERVER: U. Nicholson, - subtle, near vertical green band ↳ vertical bedding? Pyritized burrow? - inverse grading, large pumice clast
50						convolute, near vertical bedding - pyritized burrow } High angle laminae } 83-85cm - pumice clasts } subtle near horizontal lamination, offset by small faults (reverse faults) } bioturbation (aid). } 116-117cm - dispersed ash Base of section @ 126.5cm
100						
150						

Olive black
mudstone with
green + black
banding / lamination
pyritized burrows
mottling + bioturbation

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 18/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 57K
SECTION: 3
TOP DEPTH (m CSF):

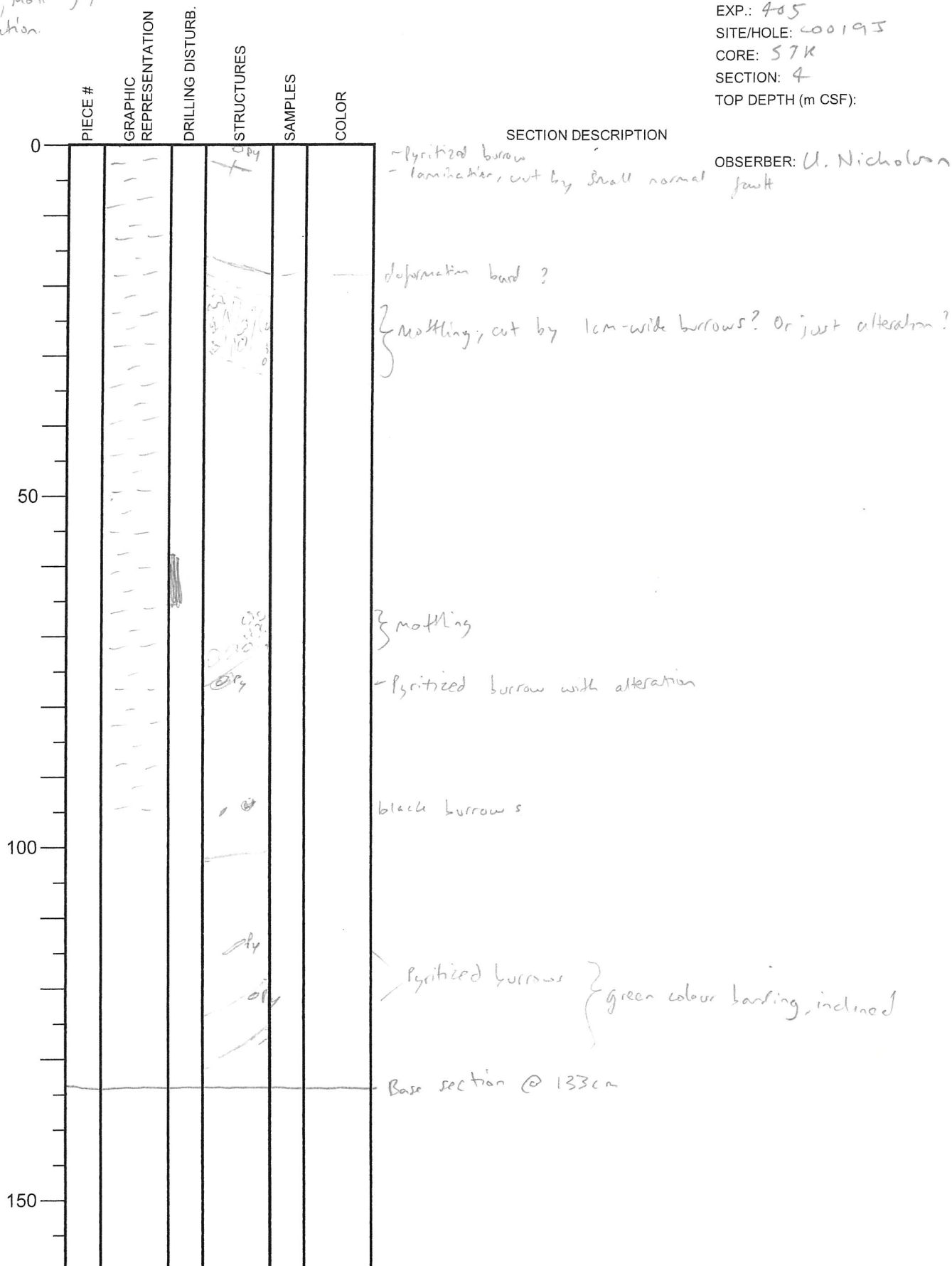


International Ocean Discovery Program

Visual Core Description

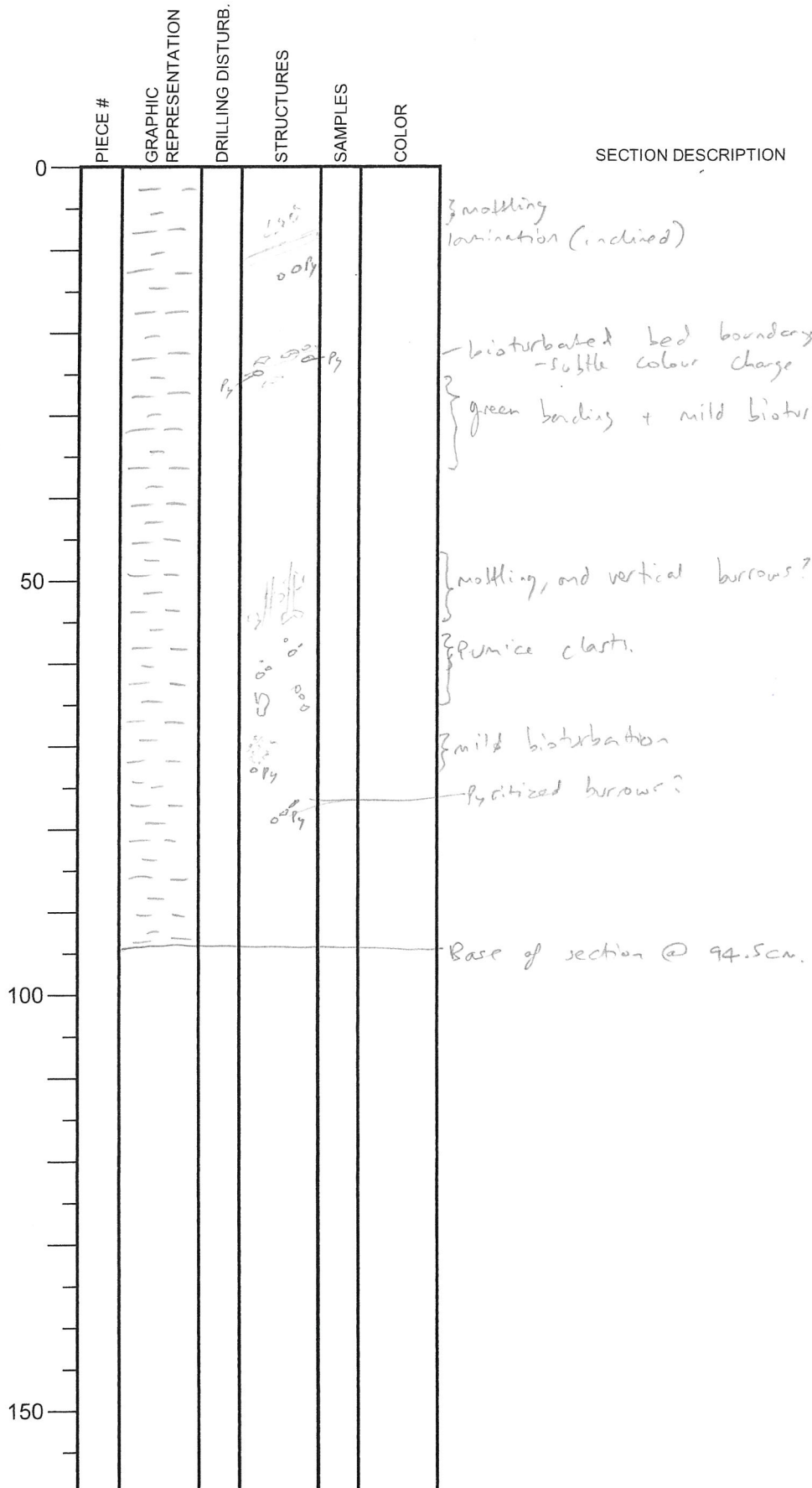
Olive black mudstone with green banding, mottling, and bioturbation.

NO. 4
DATE: 8/10/2024
EXP.: 405
SITE/HOLE: C00193
CORE: 57K
SECTION: 4
TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

NO. 5
DATE: 18/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 57K
SECTION: 5
TOP DEPTH (m CSF):



OBSERVER: U. Nicholson

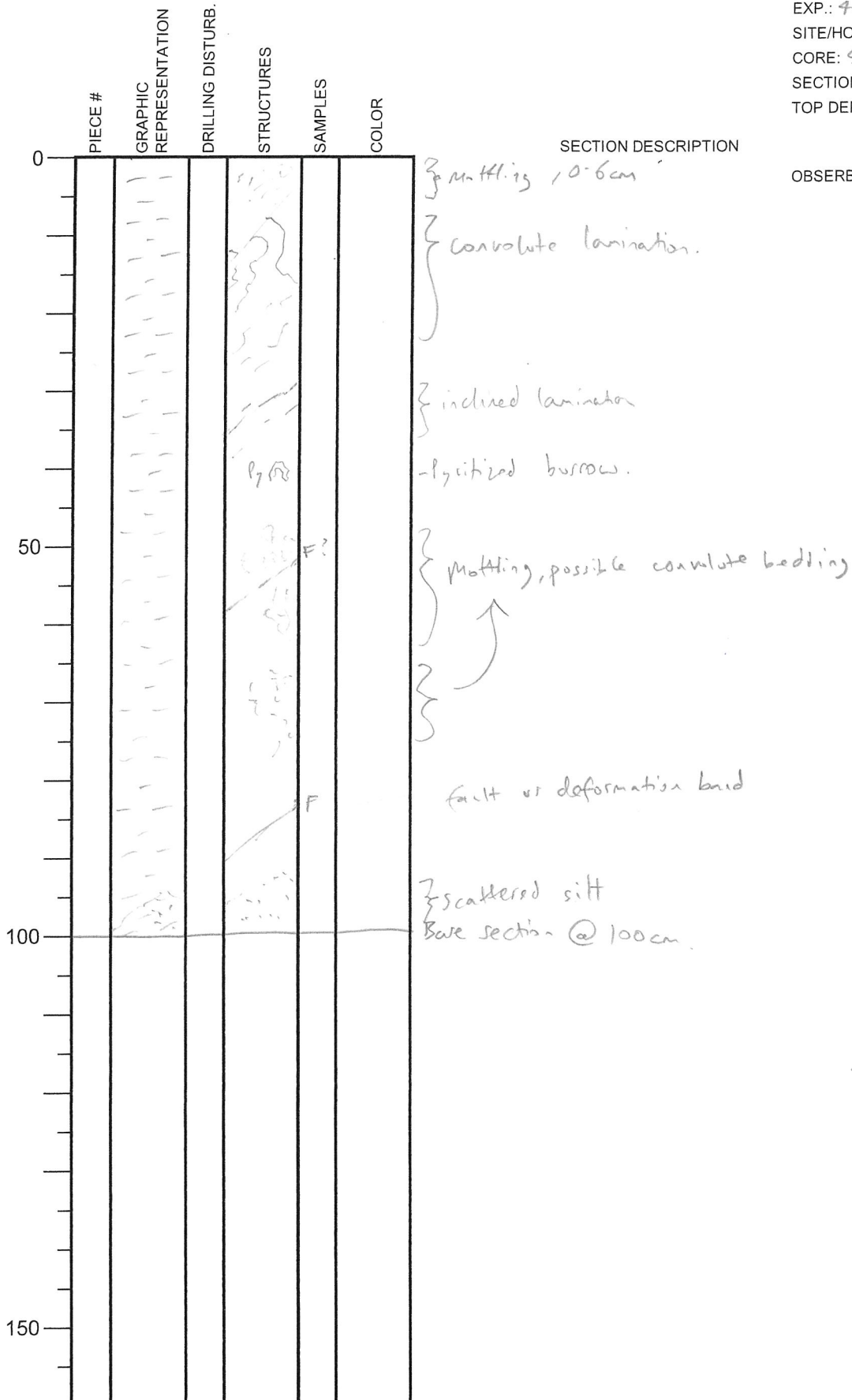
NO. 6
DATE: 18/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 57K
SECTION: 6
TOP DEPTH (m CSF):

VCD_sheet_160629

International Ocean Discovery Program

Visual Core Description

NO. 7
 DATE: 18/10/2024
 EXP.: 405
 SITE/HOLE: 00195
 CORE: 57K
 SECTION: 7
 TOP DEPTH (m CSF):

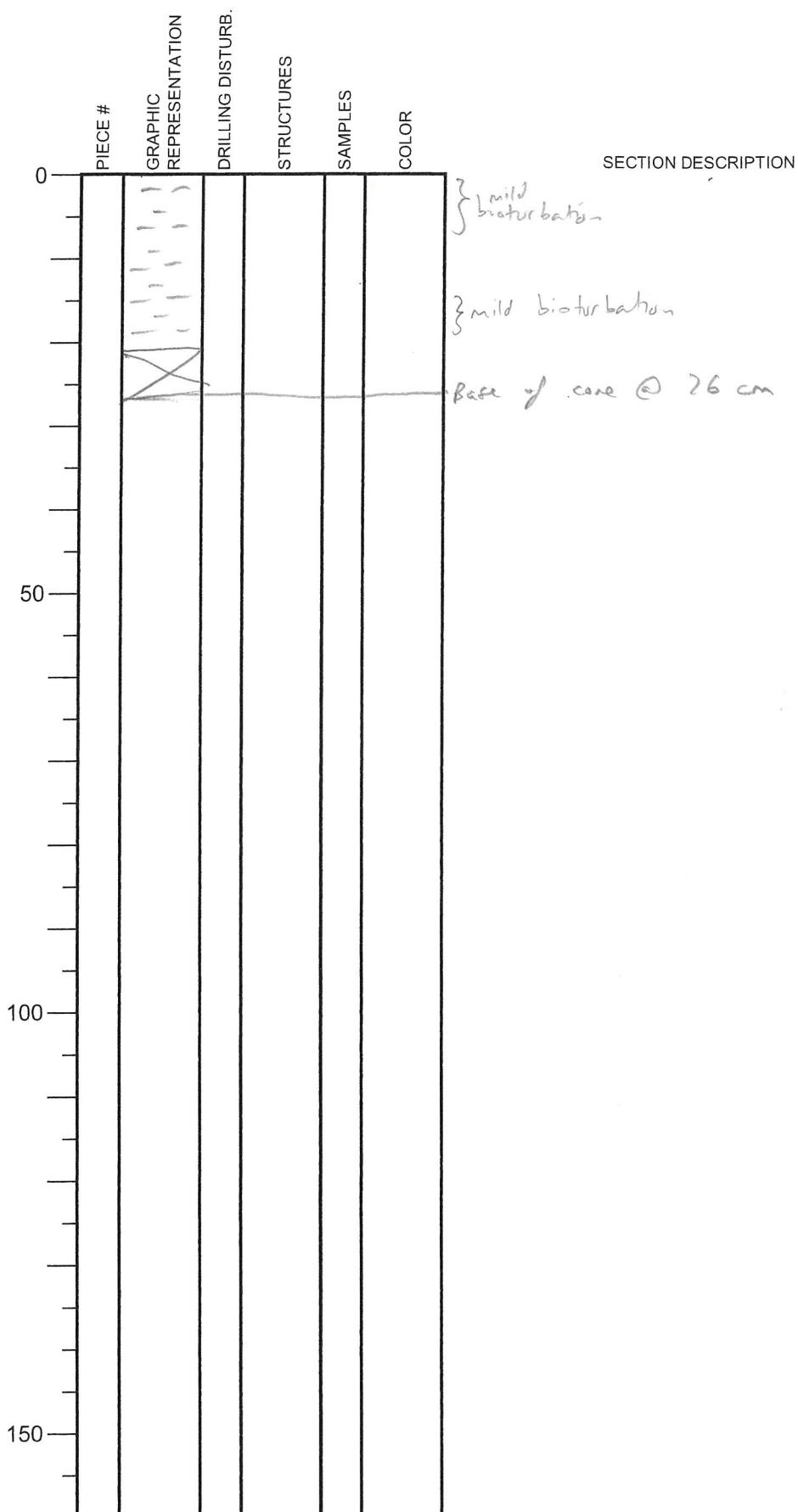


OBSERVER: A. Nicholson

International Ocean Discovery Program Visual Core Description

NO. 8
DATE: 18/10/2027
EXP.: 405
SITE/HOLE: C0019J
CORE: 57K
SECTION: CC
TOP DEPTH (m CSF):

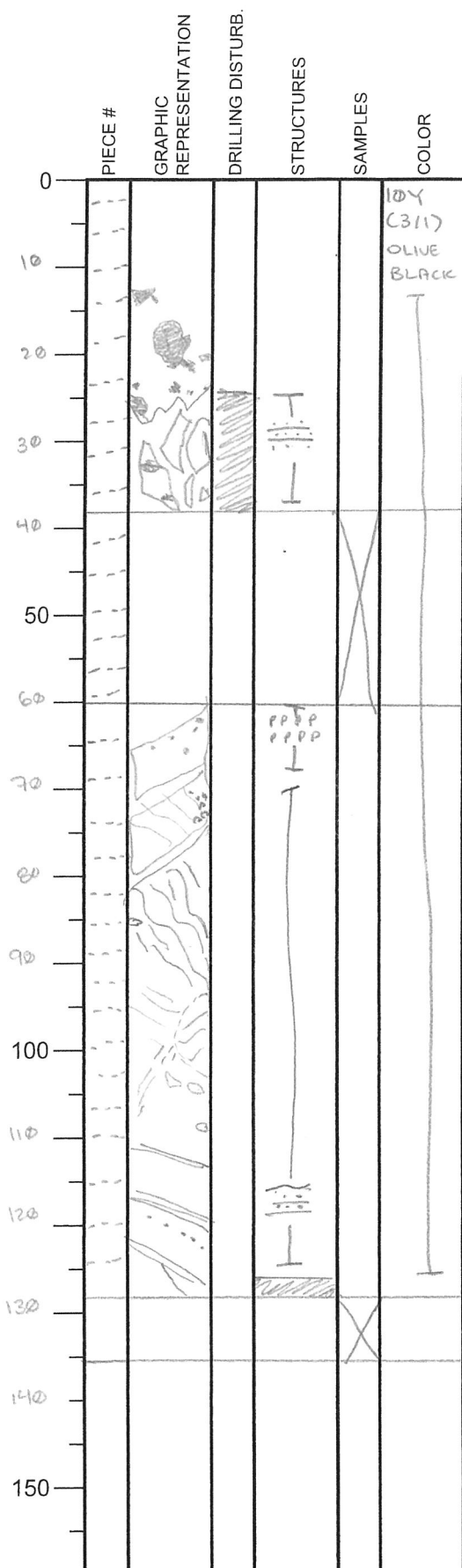
OBSERVER: U. Nicholson



International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 50K
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: René Castillo

*Olive Black mudstone material with pumice/ash intermixed, green-black alterations/banding, black patches, bedding and burrows.

pumice @ (25-26cm)

Disaggregated angular pieces (26-39.5cm) with green/black alterations

WR @ (39.5-60.5cm)

Black speckles/pumice (61-67cm)

Black color banding Burrows (74-75cm)

Wavy banding (Black/green) @ (79-94cm) ash intermixed

green/black alterations (96-102cm)

change in banding dip @ (104-105cm)

bedding @ 111cm

green/black banding

WR @ (128-135.5cm)

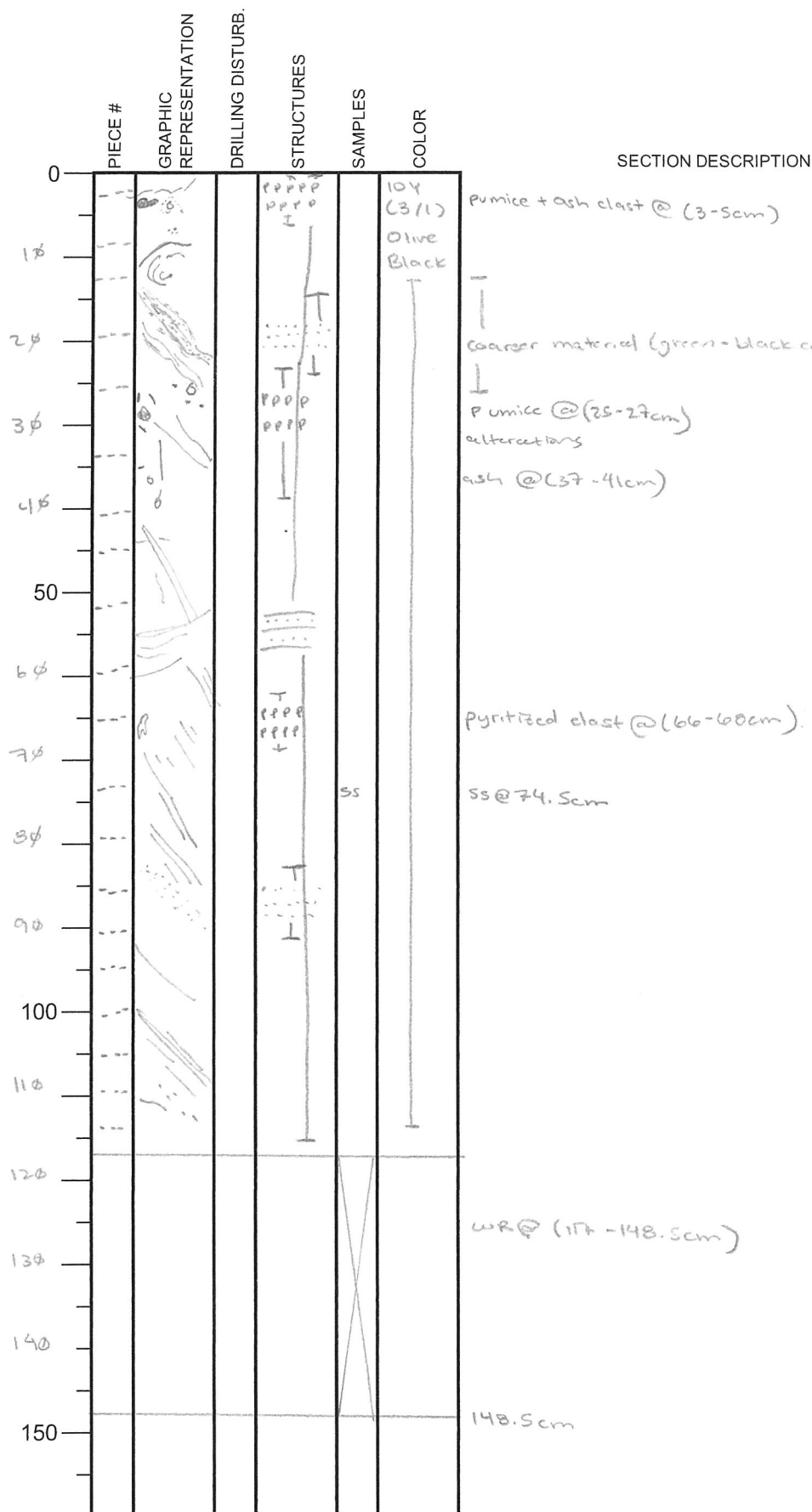
135.5cm

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 18/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 58K
 SECTION: 2
 TOP DEPTH (m CSF):

OBSERVER: René C.

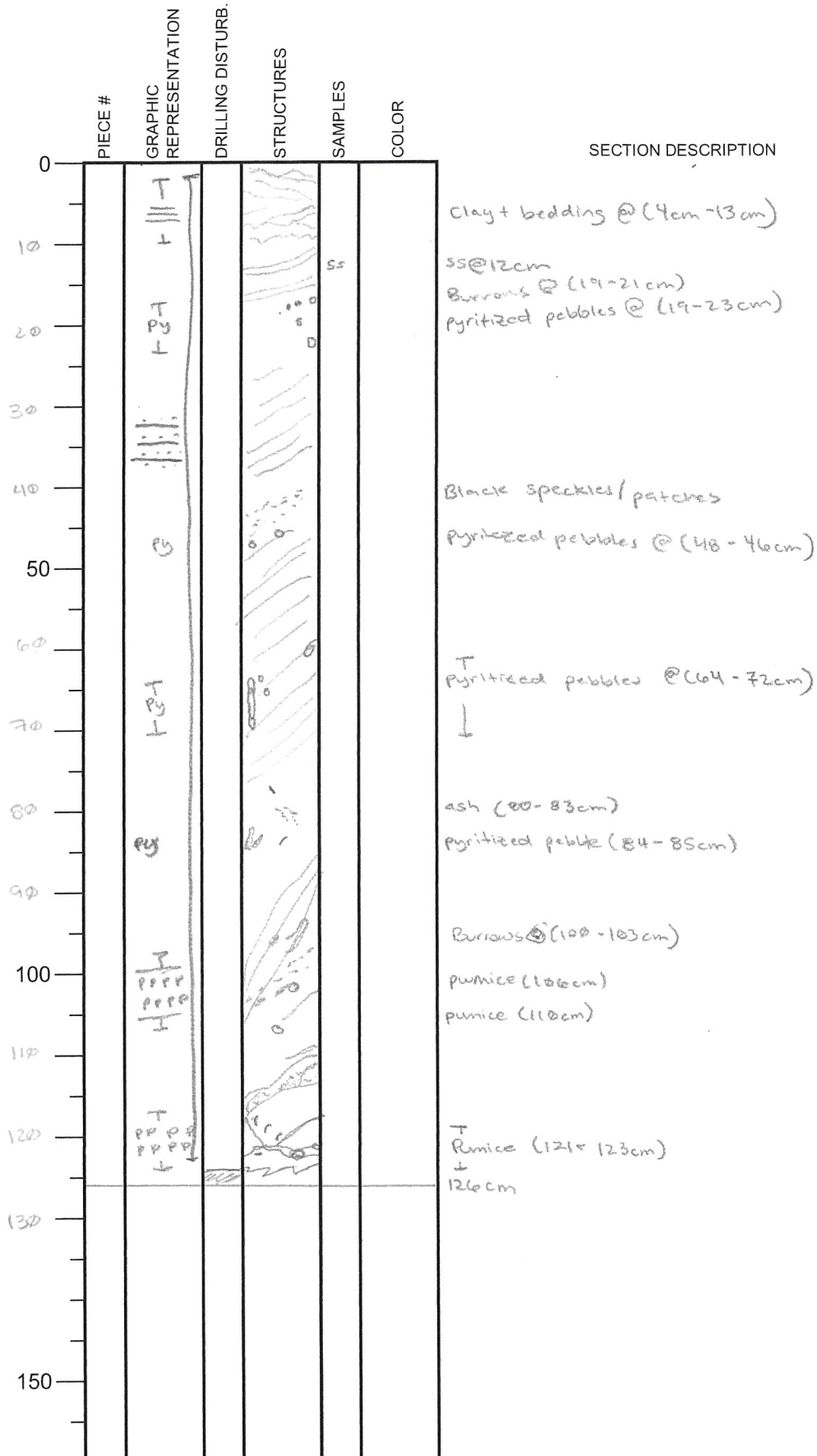


International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 53K
 SECTION: 3
 TOP DEPTH (m CSF):

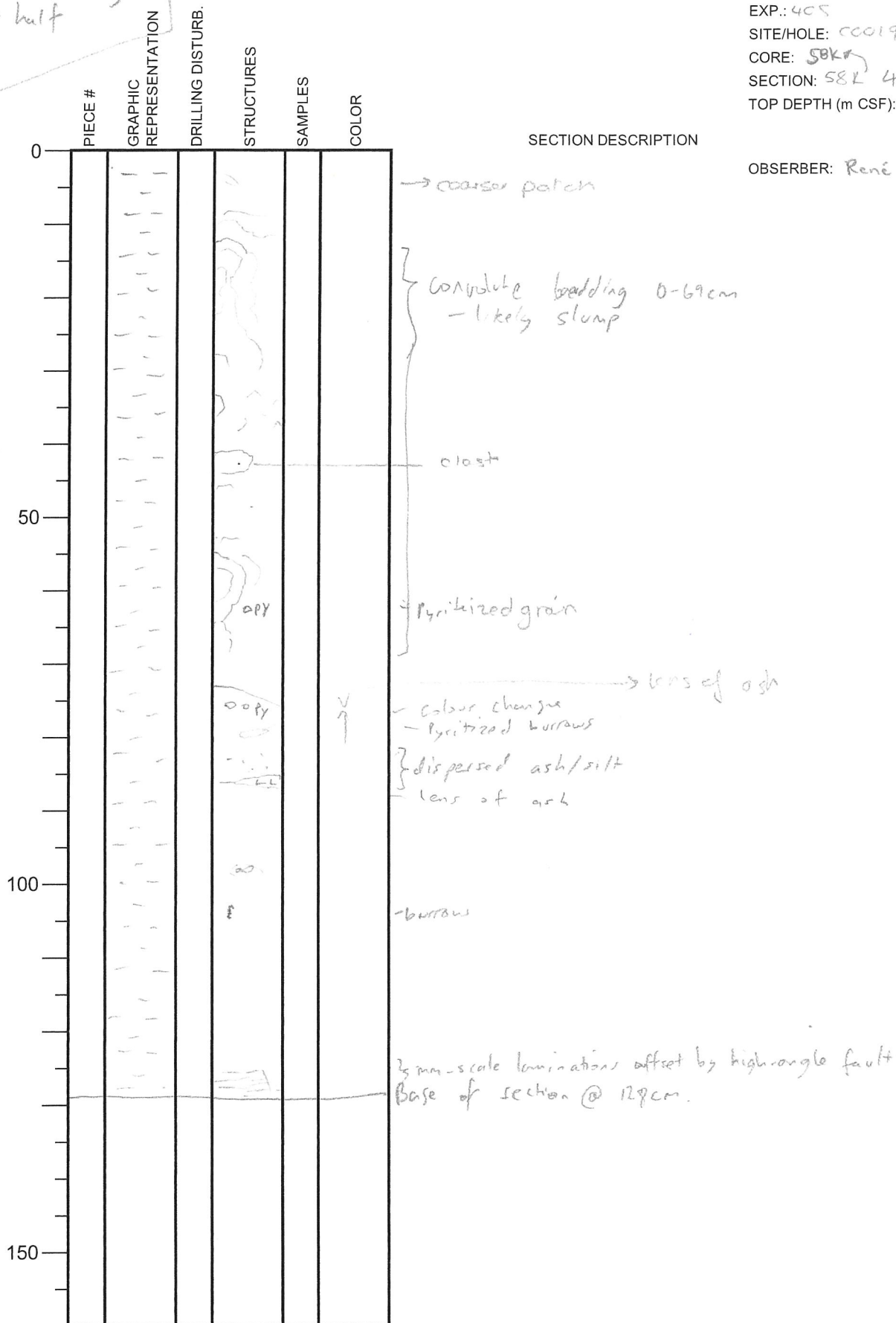
OBSERVER: René C.



Olive black mudstone with convolute bedding in upper half

International Ocean Discovery Program Visual Core Description

NO. 4
DATE: 19/10/2024
EXP.: 405
SITE/HOLE: C0019
CORE: 58K
SECTION: 58L 4
TOP DEPTH (m CSF):



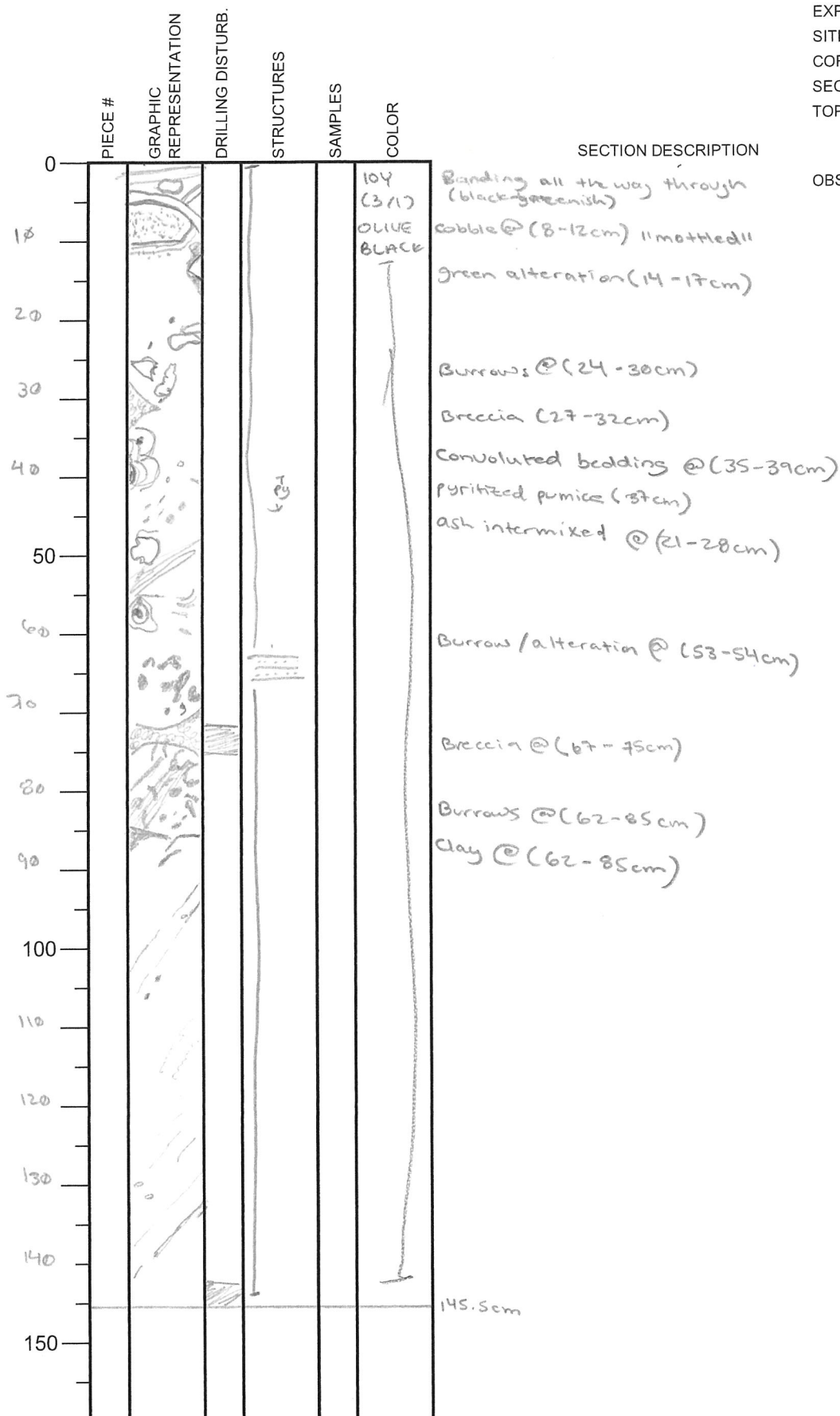
OBSERVER: René C. & Udoen

International Ocean Discovery Program

Visual Core Description

NO. 5
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: S8K
 SECTION: S
 TOP DEPTH (m CSF):

OBSERVER: René Castillo



International Ocean Discovery Program

Visual Core Description

NO. 6
 DATE: 8/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 58K
 SECTION: 6
 TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0			T		10Y (3/1) OLIVE BLACK	green-black color banding
10						
20						
30						
40			PPPP PPPP PPPP			ash (pumice @ (42-48cm)
50						
60						Black patches/burrows @ (51-57cm)
70						Breccia @ (60-65cm)
80						
90			PPPP PPPP			ash (88-93cm)
100			PPPP PPPP			pumice @ (93cm)
110						green/black color banding /alterations
120						
130						130.5cm
150						

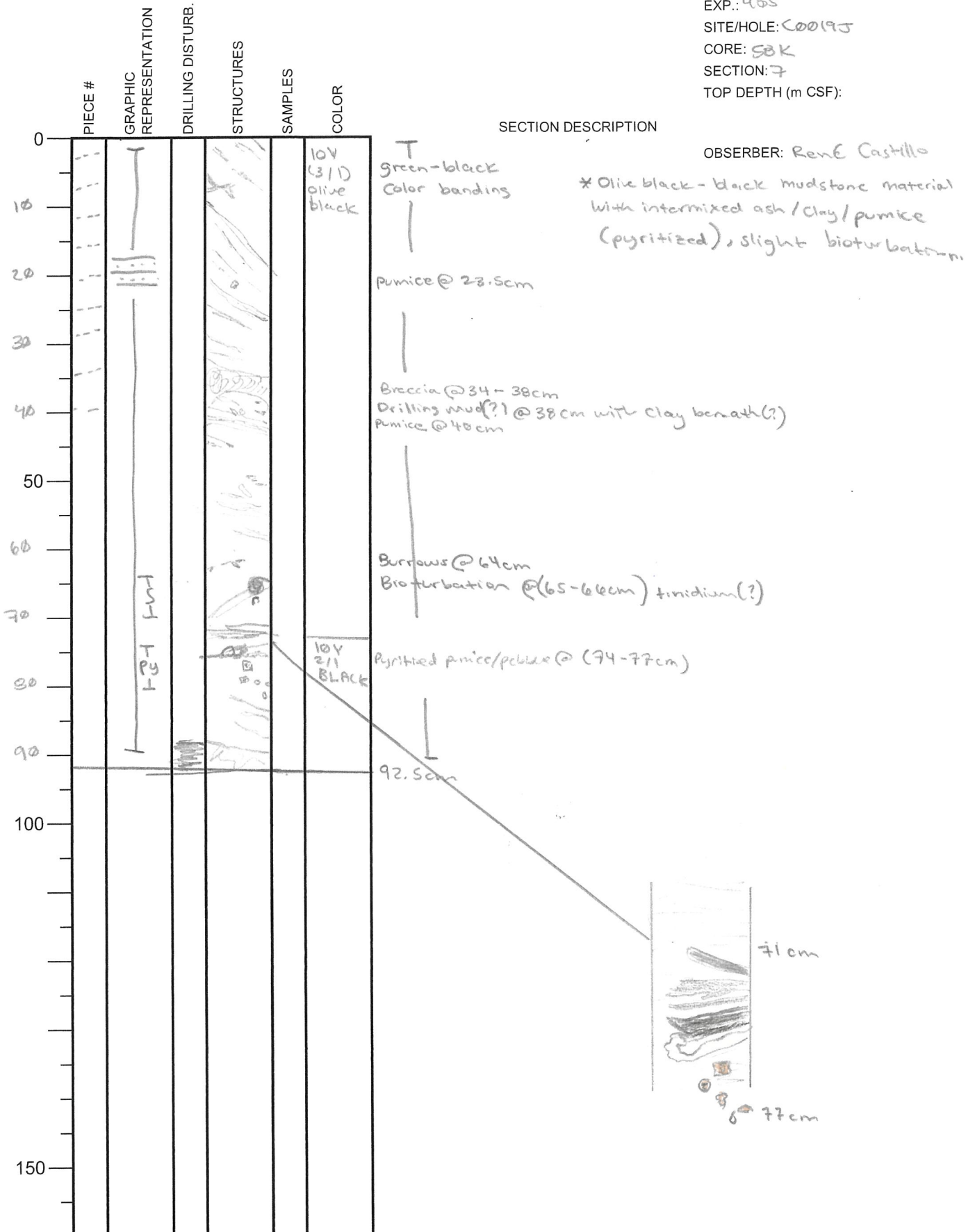
OBSERVER: René Castillo

* Olive Black mudstone material with pumice/ashy green-black banding / patches, and burrows.

International Ocean Discovery Program

Visual Core Description

NO. 7
 DATE: R/10/2021
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 58K
 SECTION: 7
 TOP DEPTH (m CSF):

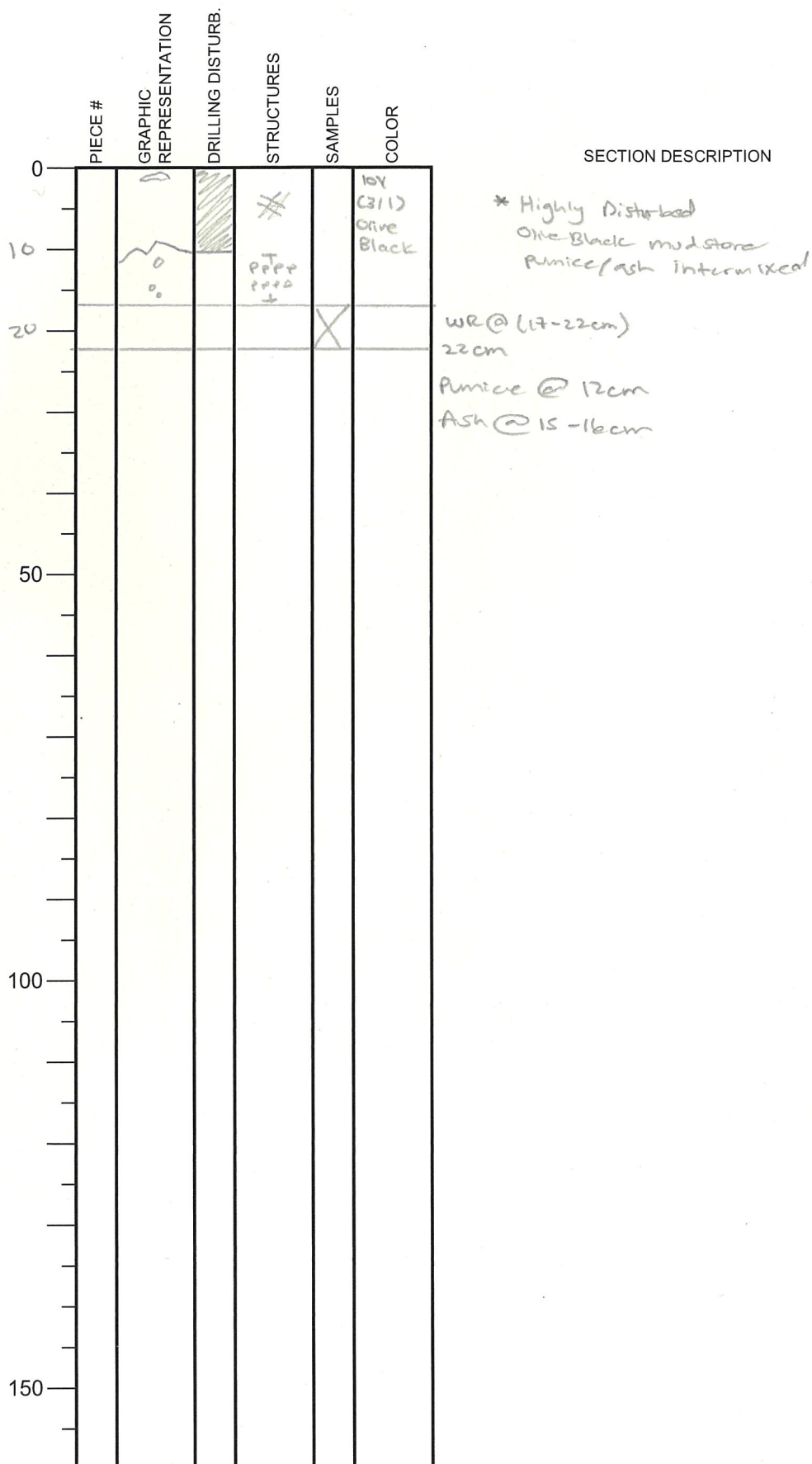


International Ocean Discovery Program

Visual Core Description

NO. 8
 DATE: 18/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 582
 SECTION: CC
 TOP DEPTH (m CSF):

OBSERVER: René Castillo



International Ocean Discovery Program Visual Core Description

NO.
DATE: 19/10/20
EXP.: 405
SITE/HOLE:
CORE: 59K
SECTION: 1
TOP DEPTH (m CSF):

3
in piece



PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
1				5	7.5YR
2				SS	6/4
3				7 Hue 10Y	3/1
				25	2 Hue 10Y
				SS	3/2
				3 Hue 7.5	Y/2
				4 Hue 10Y	3/2
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: RINA FUKUCHI

0-8 cm 2-7 cm thick ~~band~~
dull orange clay (mud) with black vif. sandy barren bedding
9-35 cm subvertical bedding
16-17 cm deformation band (tan black band)
1 gray (light) olive black mud
2 dark gray (olive black) vif. fine sand with sandy f. (coarser) ash inside (fine sand & scoria? fragment? black)
3 brownish olive black mud (silt?)
4 greenish olive black alteration band (ch?)

subvertical

fracture

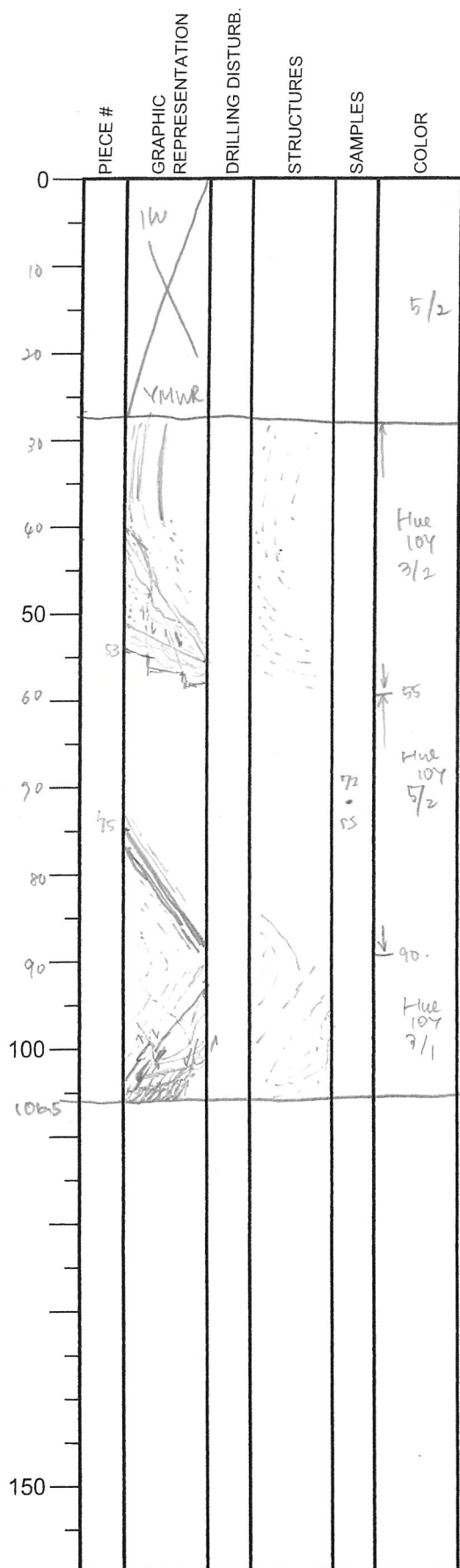
International Ocean Discovery Program

Visual Core Description

NO.
DATE: 18/10/20
EXP.: 405
SITE/HOLE: C0019J
CORE: 59K
SECTION: 2
TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: RINA. FUKUCHI



28.0 cm

Olive black mud. Folding using fault?
Normal

51~55

55~90 cm Olive gray
massive clay
homogeneous!

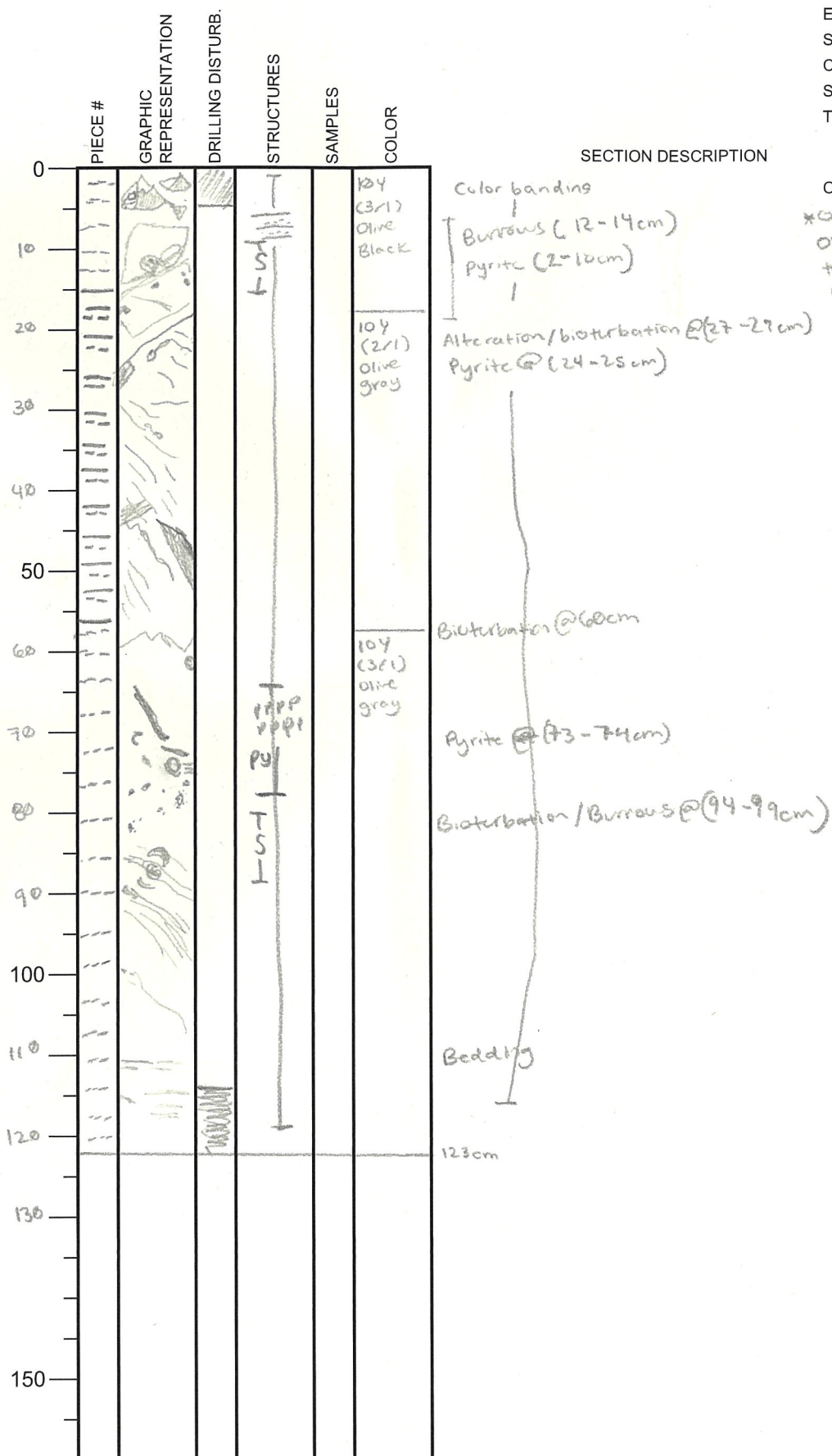
Olive black mud.

NP
blocky soft
soft deformation ductile str.

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 59K
 SECTION: 3
 TOP DEPTH (m CSF):



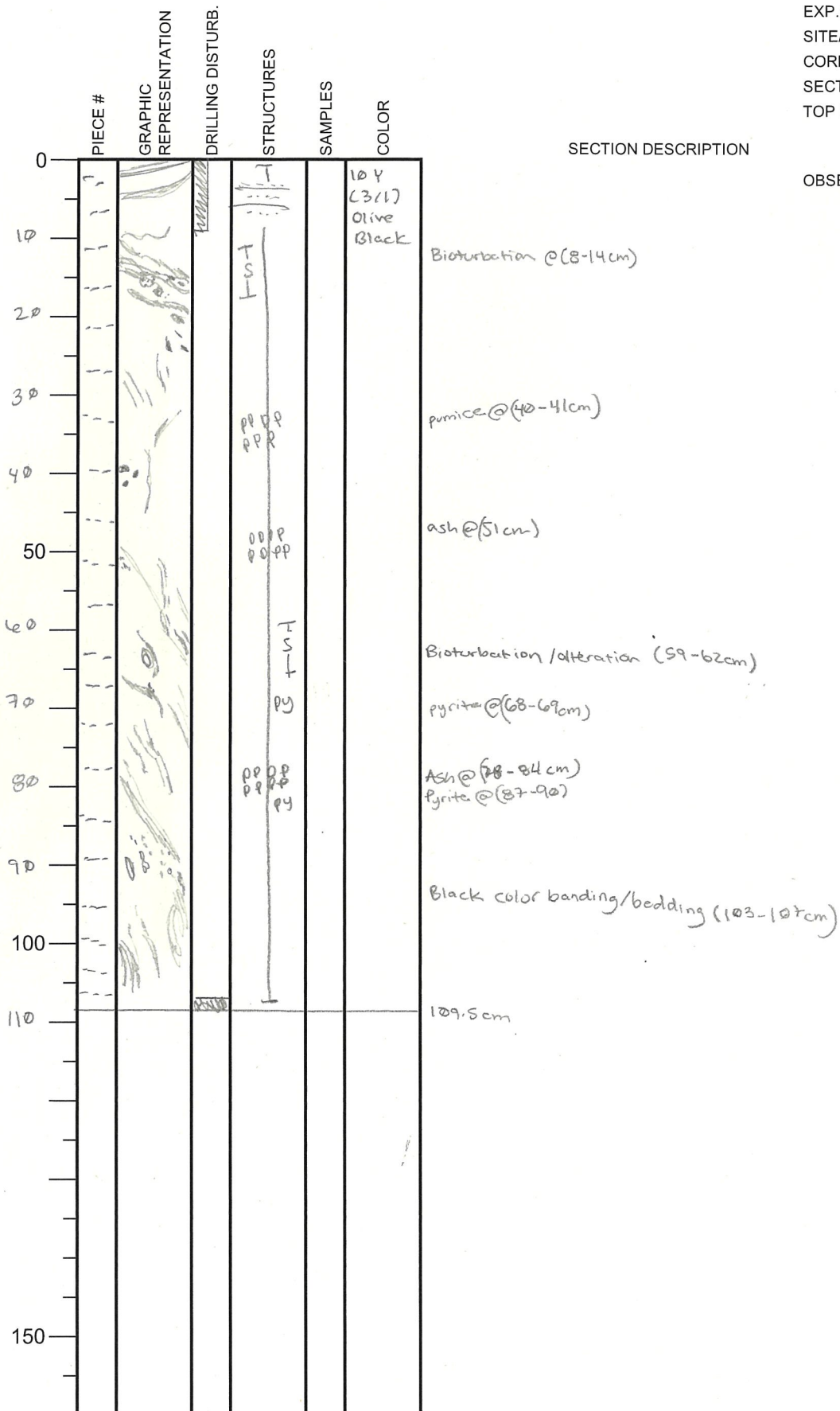
OBSERVER: René C
 *Olive Gray Mudstone material
 Olive Gray sections, mild bio
 turbation, burrows, pyrite,
 black-green color banding,
 bedding layers, and wavy
 banding

International Ocean Discovery Program

Visual Core Description

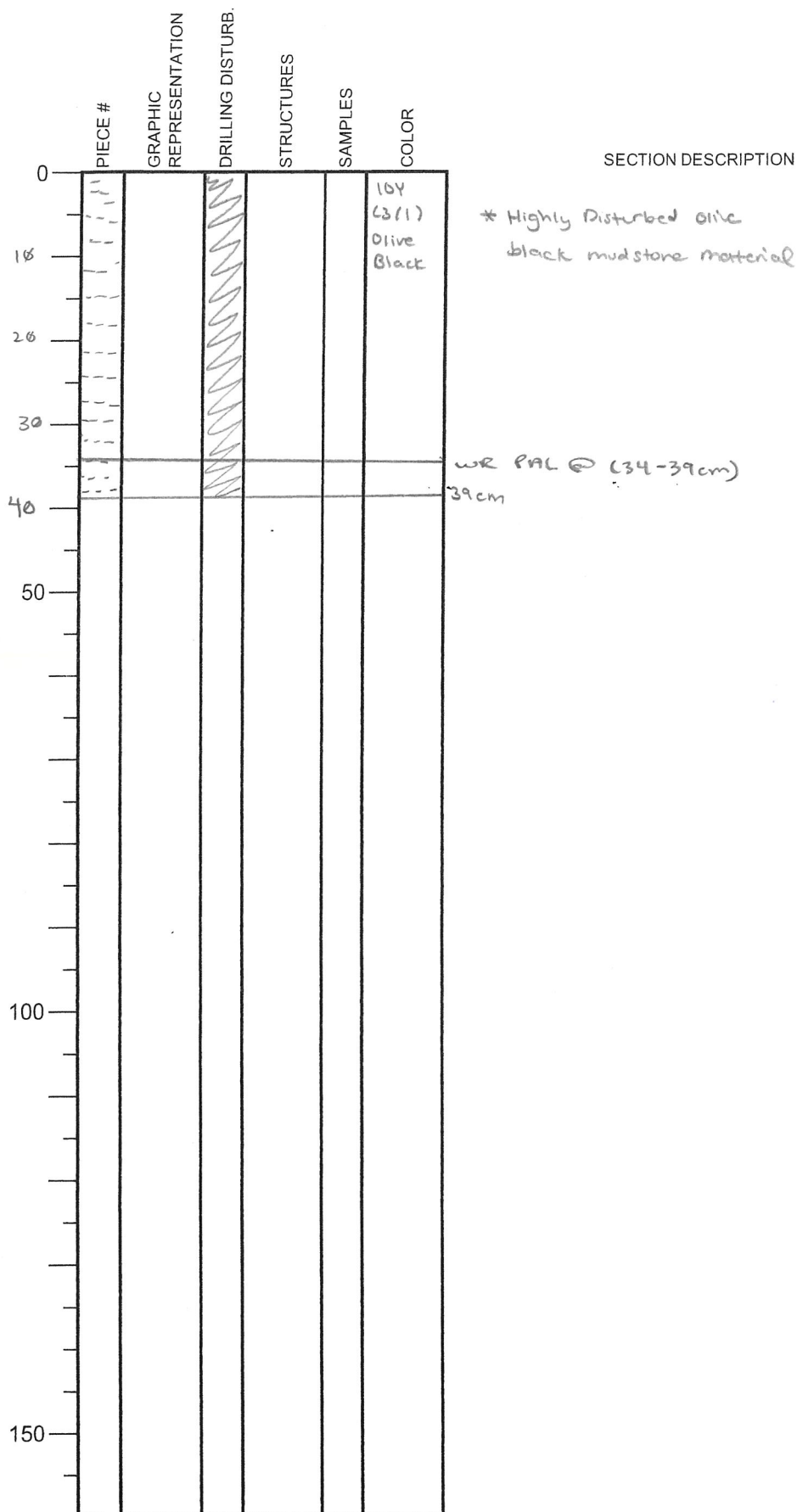
NO. 40
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 59K
 SECTION: 4
 TOP DEPTH (m CSF):

OBSERVER: Rene C



International Ocean Discovery Program Visual Core Description

NO. 5
DATE: 18/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: S92
SECTION: CC
TOP DEPTH (m CSF):

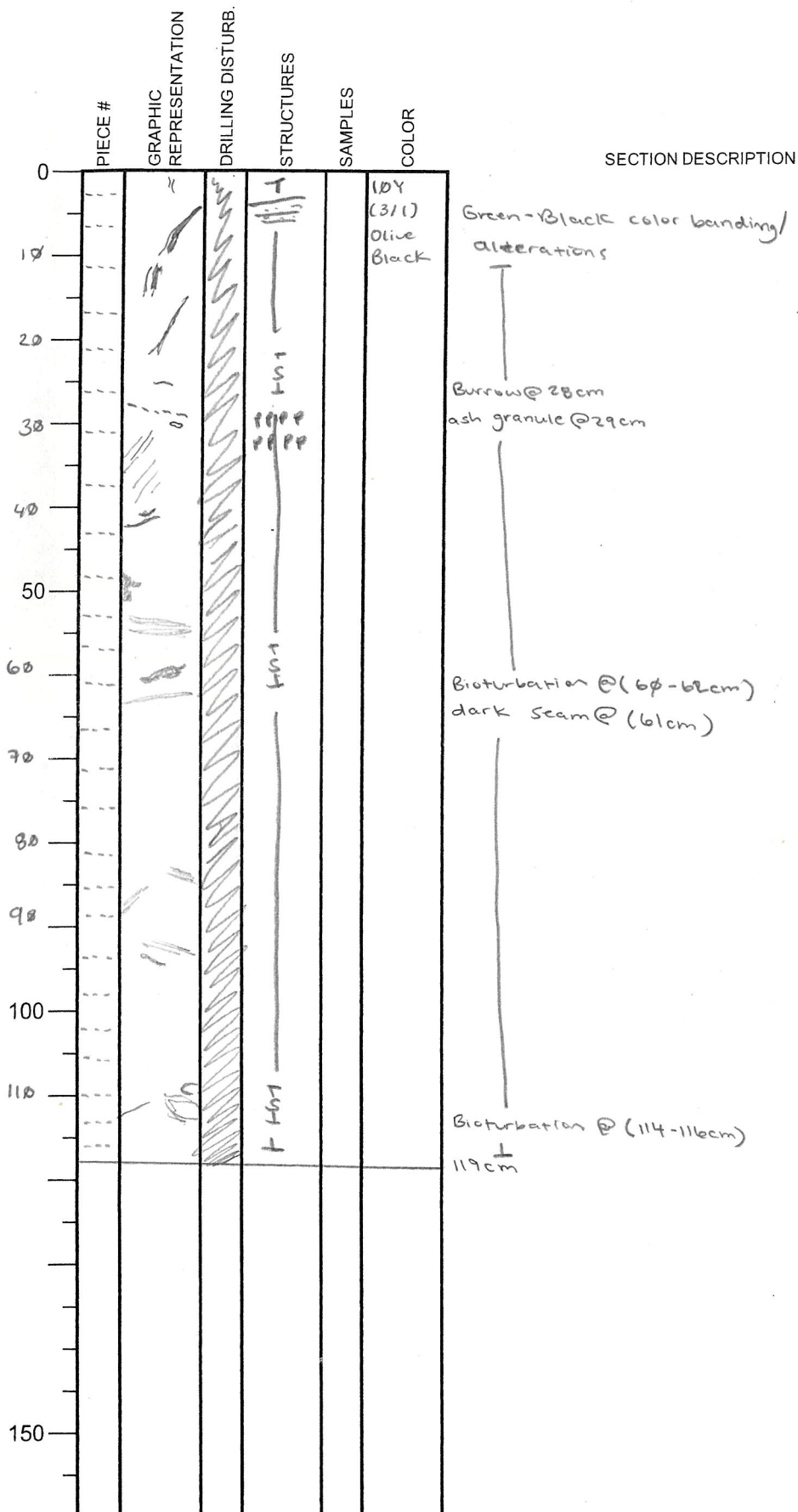


OBSERVER: René C

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 60 K
 SECTION: 1
 TOP DEPTH (m CSF):



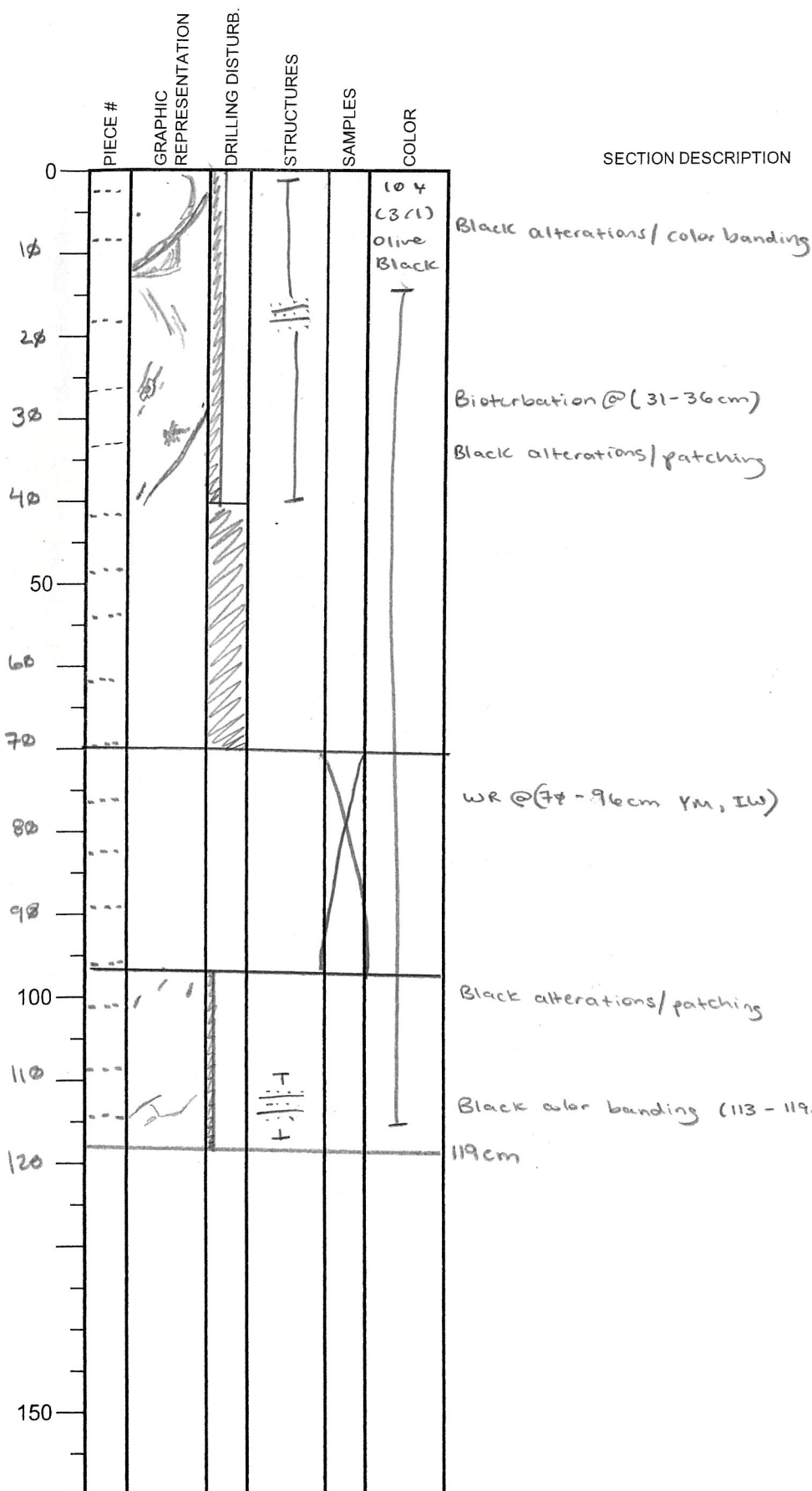
OBSERVER: René Castillo

* Olive Black mudstone material with high disturbance, slight bioturbation, green-black banding/alterations, and ash.

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 19/10/20 24
 EXP.: 405
 SITE/HOLE: C001-J
 CORE: 60K
 SECTION: 2
 TOP DEPTH (m CSF):



OBSERVER: René C

*Olive Black mudstone material with black-green alterations + banding, slight bioturbation

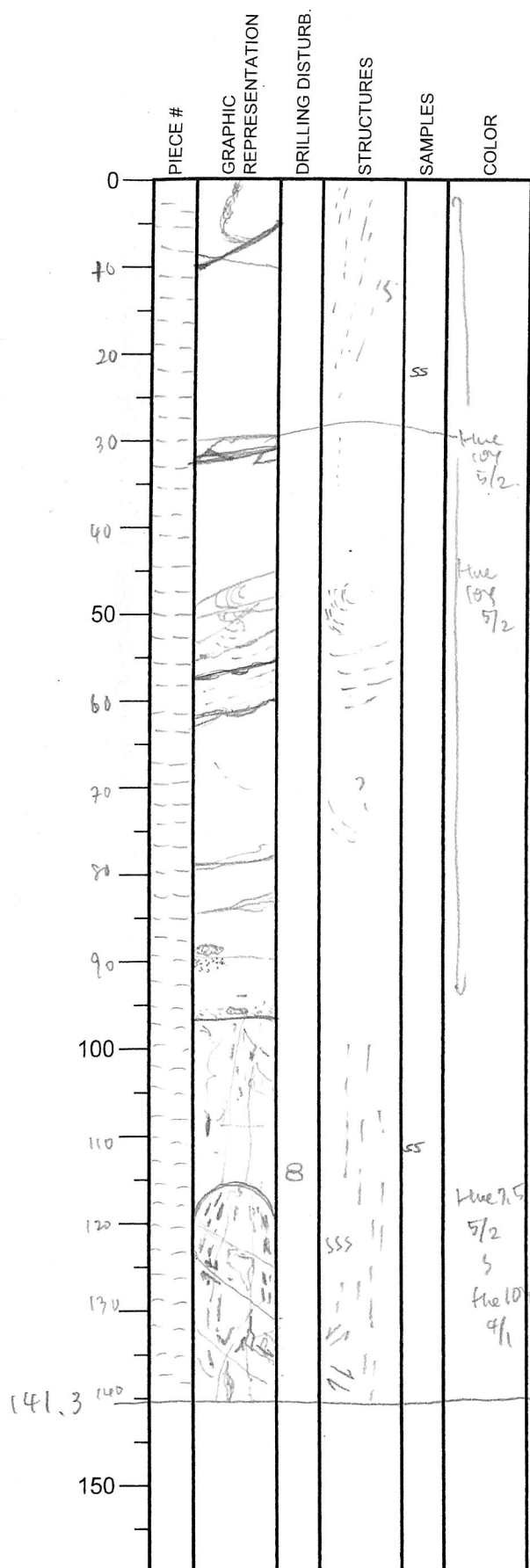
International Ocean Discovery Program

Visual Core Description

NO.
DATE: 19/10/20
EXP.: 405
SITE/HOLE: C0019J
CORE: 60 K
SECTION: 3
TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: RINA. FUKUCHI



International Ocean Discovery Program Visual Core Description

NO. 4
DATE: 19 / 10 / 2024
EXP.: 405
SITE/HOLE: C00195
CORE: 60K
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					10 Y (4/1) gray
10					
20					
30				X	
40					
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: René Castillo

* Highly disturbed!

WR @ (27-32 cm) PAL

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 19/10/2024
EXP.: 405
SITE/HOLE: r0019J
CORE: 61K
SECTION: 1
TOP DEPTH (m CSF): -

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0			P P		T	
10	o		P P		10y	quite disturbed due to drilling
	o		P		4/1	
20	o				olive	
			Py		black	Py grain
30			Py			
			Py			Py grain w/ wispy black alteration
40						Base of section
50						
100						
150						

OBSERVER: Amy G

Olive blade mudstone
w/ disseminated ~~pyrite~~ ^{amorph}
(sometime pyritized)

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 19/10/2024
EXP: 405
SITE/HOLE: 00019J
CORE: 61K
SECTION: 2
TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: Amy G

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
10					
20					
30					
40			P.P. P.P.		
50					
60			Py Py		
70					
80					
90			SS		
100					
110					
120					
130					
140					
150					

Olive black mudstone w/ lots of disseminated pumice + pyritized clasts

some ash disseminated

Long structure

Pyritized pumice

Pyritized pumice

Pumice
black deformation band
Pumice, pyrite
Burrows

bioturbation - mod

Py pumice clasts

Py grains
Pumice clasts
Py grain

Pumice clast w/ black laminae

Burrows with black laminae
outside

BASE OF SECTION

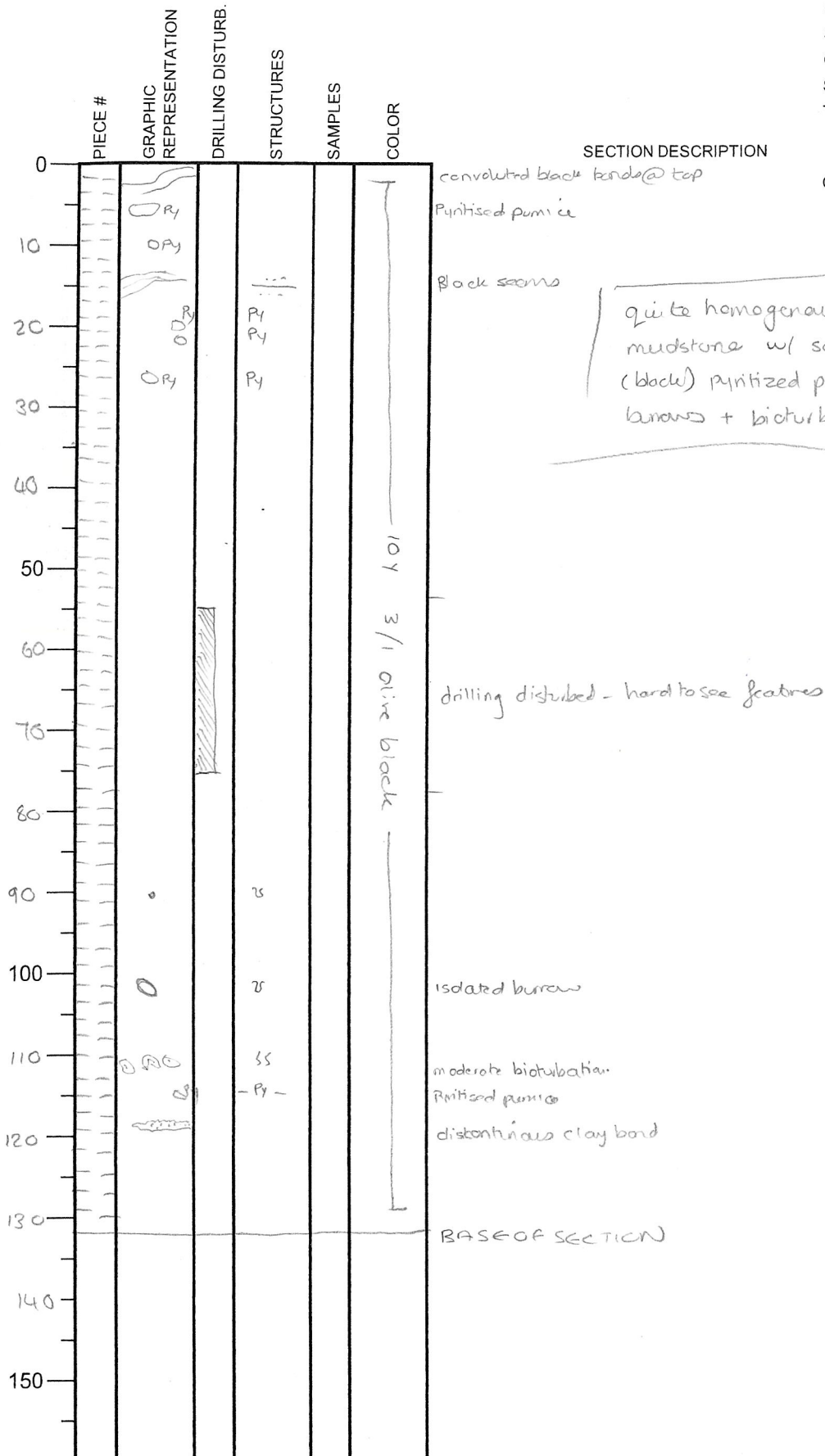
Laminated
Patch

Coarser
Patch

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 19/10/2024
EXP.: 405
SITE/HOLE: 00019J
CORE: 61K
SECTION: 3
TOP DEPTH (m CSF):

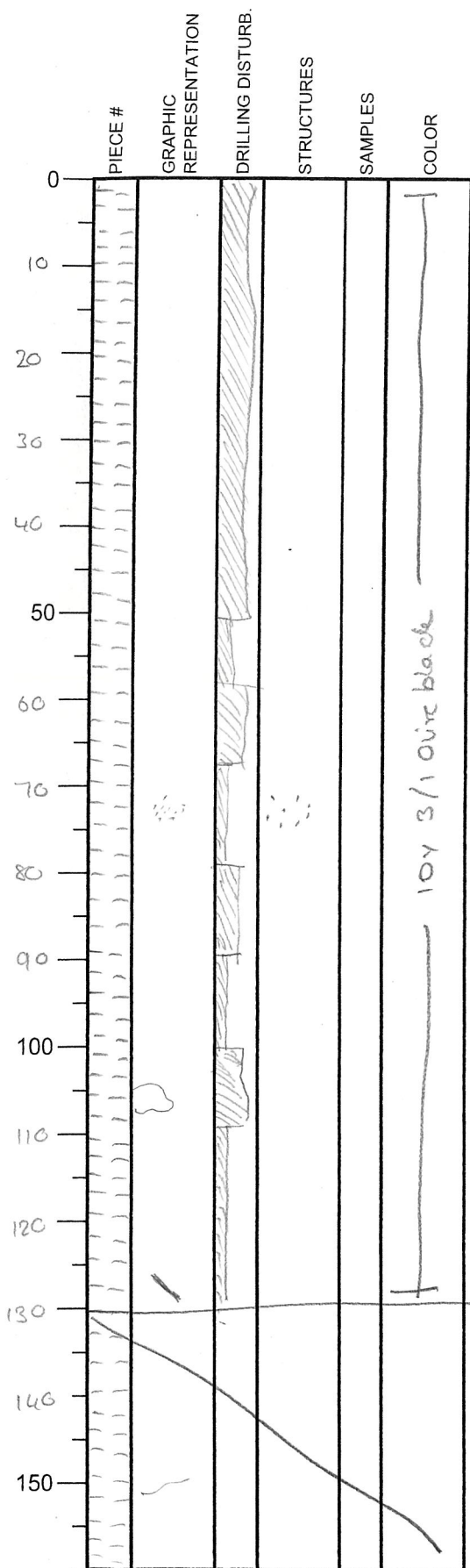
OBSERVER: Amy Gough



International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 19 / 10 / 2024
 EXP.: 405
 SITE/HOLE: 00010J
 CORE: G1K
 SECTION: 4
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Amy

very heavily fractured w/ no remnant
 features
 → some black bands throughout

silty patch

lighter muddy lithology (minor lith)

International Ocean Discovery Program Visual Core Description

NO. 5
DATE: 19/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: G1K
SECTION: ~~CC~~
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0						
10						
20						
30						
40						
50						
60						
70						
80						
90						
100						
110						
120						
130						
140						
150						

OBSERVER: Amy G

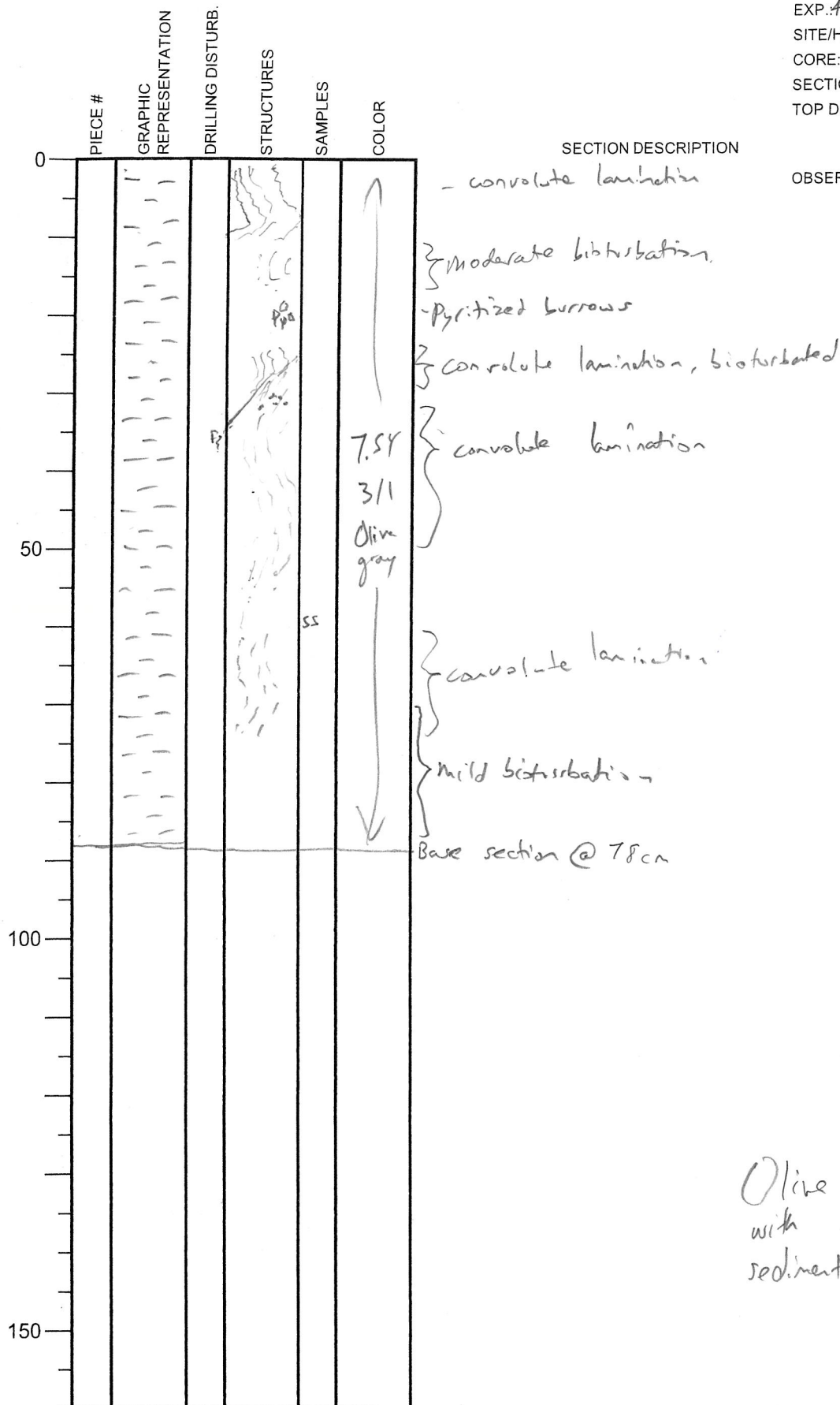
*highly disturbed
mud (olive black)

PAL (23-28 cm)

28 cm

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 19/10/2024
EXP: 405
SITE/HOLE: 62R C00195
CORE: 82K
SECTION: 1
TOP DEPTH (m CSF):



OBSERVER: Kirsten Nicholson

Olive black mudstone
with significant soft-
sediment deformation
(slump).

NO. 2
DATE: 19/19/2024
EXP.: 405
SITE/HOLE: 000195
CORE: 62k
SECTION: 2
TOP DEPTH (m CSF):

TOP DEPTH (m CSF):

OBSERVER: Girdean Nicholson

} bioturbation -
 } Subtle, near vertical convolute lamination
 (dashed lines show probable bedding).

OBSERVER: (Urdean

bedding difficult to see, but ~~may be~~ most likely near vertical

7.54
3/1

} bioturbated

} slight disturbance.

- moderate bioturbation

Bare section @ 129 cm

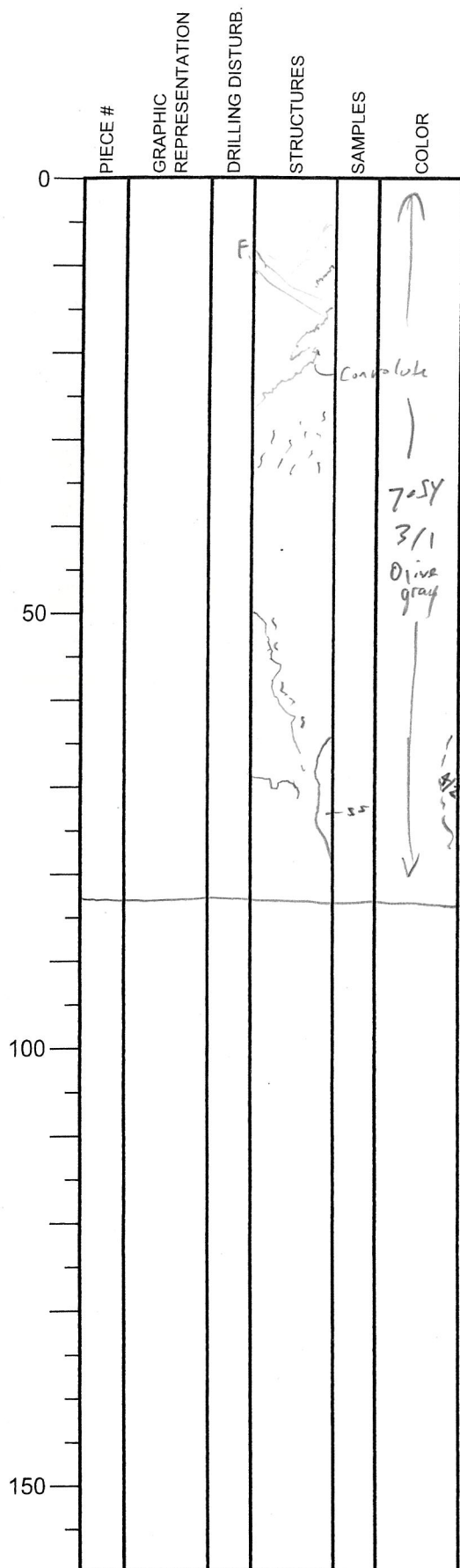
International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 62K
 SECTION: 3
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: U. Nicholson



mottled but convolute lamination also evident

convolute lamination slight bioturbation.

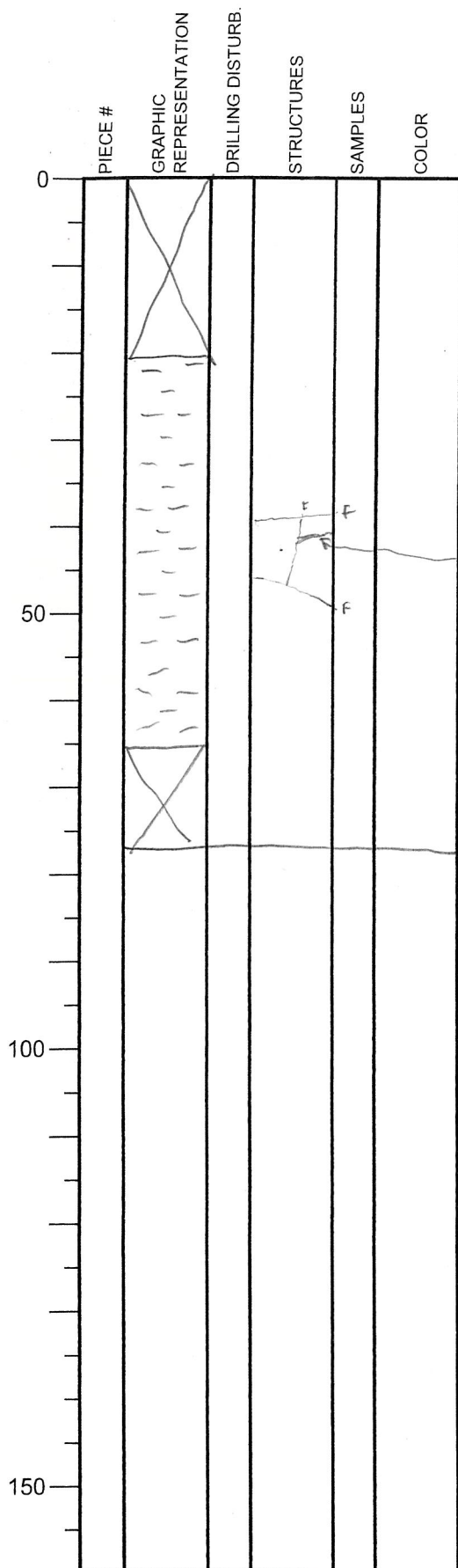
convolute lamination with bioturbation evident on one side

olive green calcareous clast.

Base section @ 82.5cm

International Ocean Discovery Program Visual Core Description

NO. 4
DATE: 19/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 62K
SECTION: 4
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: U. Nicholson

{ mild bioturbation.
- fault - deformation band with significant offset
- black lamina cut by fault

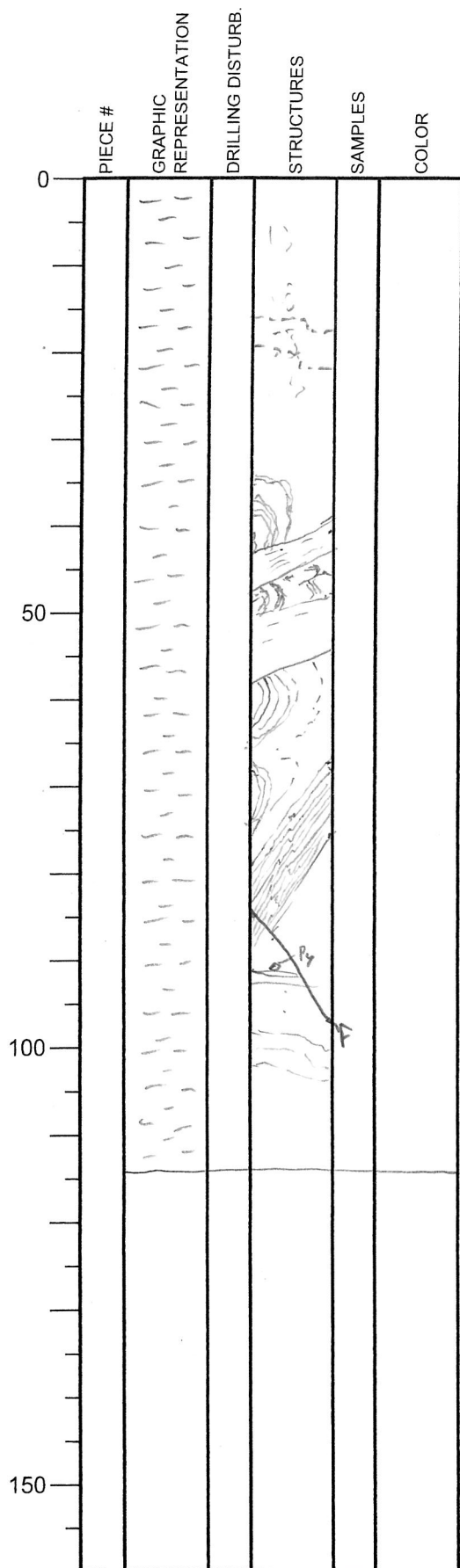
{ mild bioturbation.

Base section @ 76.5cm

International Ocean Discovery Program

Visual Core Description

NO. 5
 DATE: 19/19/2028
 EXP.: 405
 SITE/HOLE: C00193
 CORE: 62K
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: O. Nicholson

7

- subtle bedding

} mottled, 8-25 cm

} convolute lamination picked out by black silty laminae

- mud injectite?

- small reverse fault

- topography of convolute lamination

} structureless ~~sediment~~ mud injectite?

} convolute lamination, 2 distinct folds

} slightly siltier laminated package with mm-scale folds

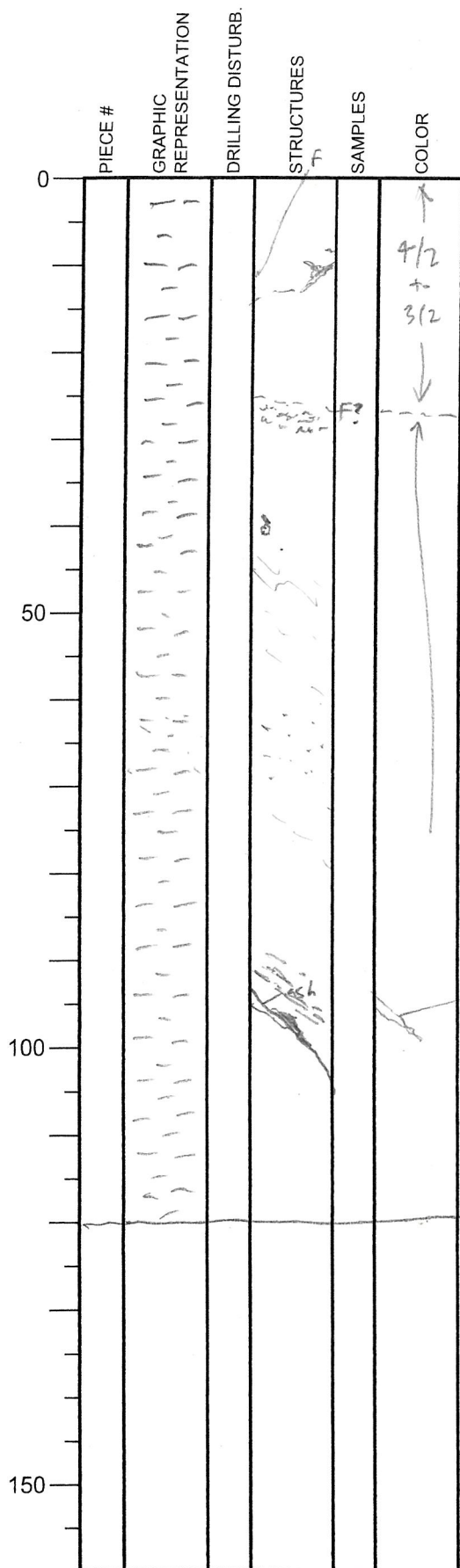
near horizontal lamination

Base section @ 114 cm.

International Ocean Discovery Program

Visual Core Description

NO. 6
 DATE: / / 20
 EXP. 405
 SITE/HOLE:
 CORE: 62K
 SECTION: 6
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER:

grayish olive to olive black
 - calcareous mudstone - large clast?
 → TO BE CONFIRMED - doesn't react to acid

abundant silt filled burrow

ash-filled burrows

scattered silt

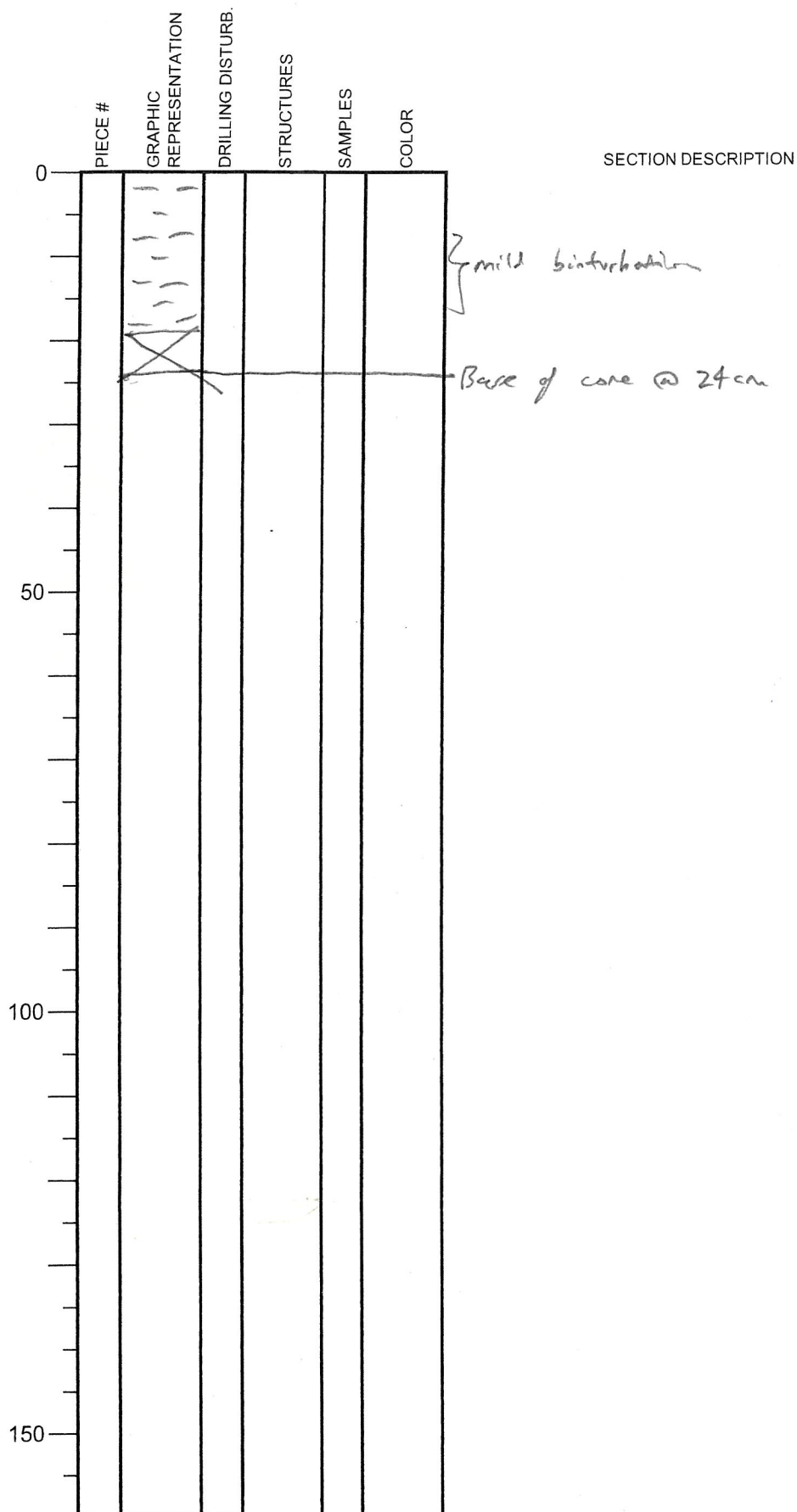
originally horizontal burrows, moderate bifurcation
 light gray

heavily bioturbated, mm-scale burrows highlighted by
 ash-filled burrows

Base section at 120cm

NO. 7
DATE: 1/10/20 24
EXP.: 405
SITE/HOLE: ~~62k~~ 60019J
CORE: 62k
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: U. Nicholson



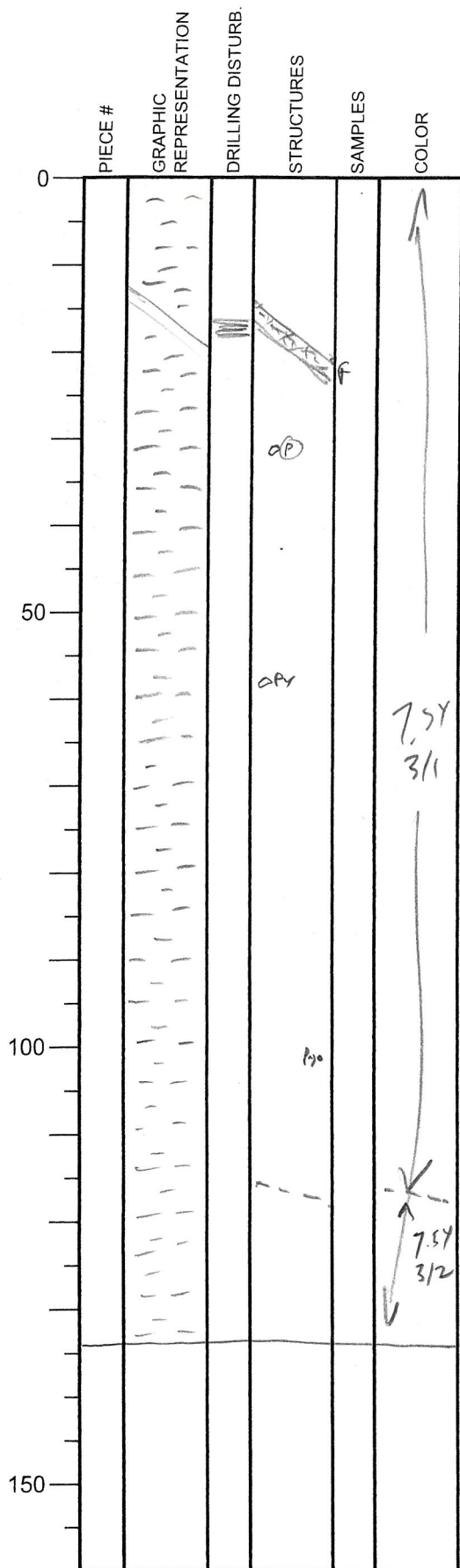
Olive black
Mudstone with
moderate bioturbation
and mottling, occ.
pyritized burrows.

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 19/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 63K
SECTION: 1
TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: U. Nicholson

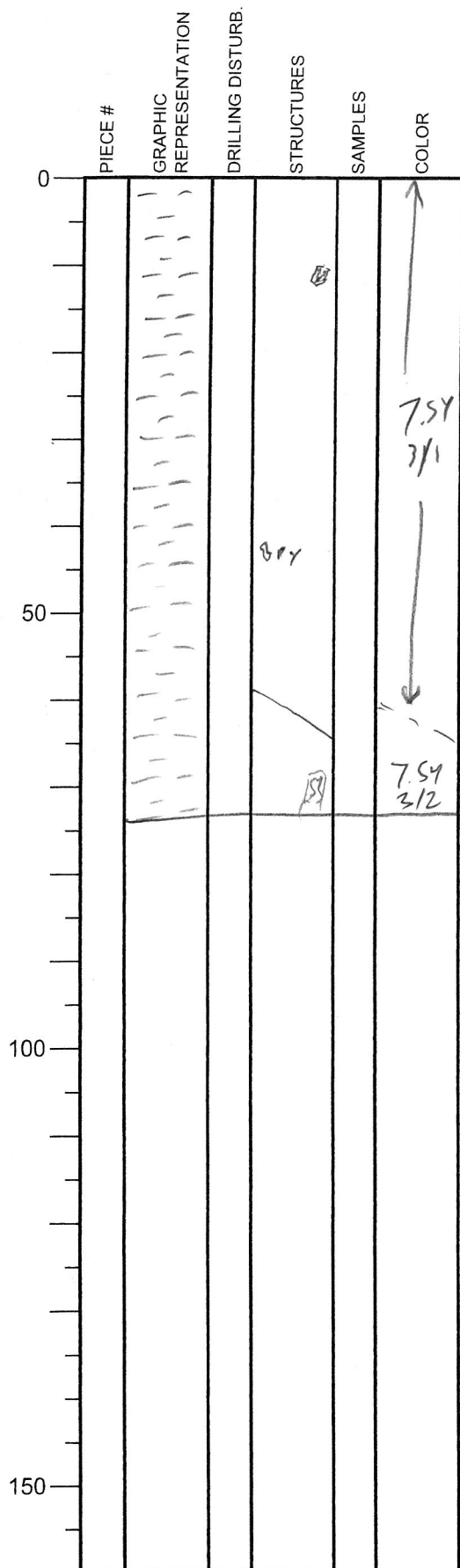


Mottled and moderately
bioturbated throughout this
interval.
Thin deformation bands
evident more than
bedding

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 19/10/2014
 EXP.: 405
 SITE/HOLE: C00195
 CORE: B3K
 SECTION: 2
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: U. Nicholson

- Black silt burrow fill

- Pyritized burrow

- Wave laminations in isolated (rotated) block.
 Base of section @ 73.5cm

Moderate disturbance and mottling throughout

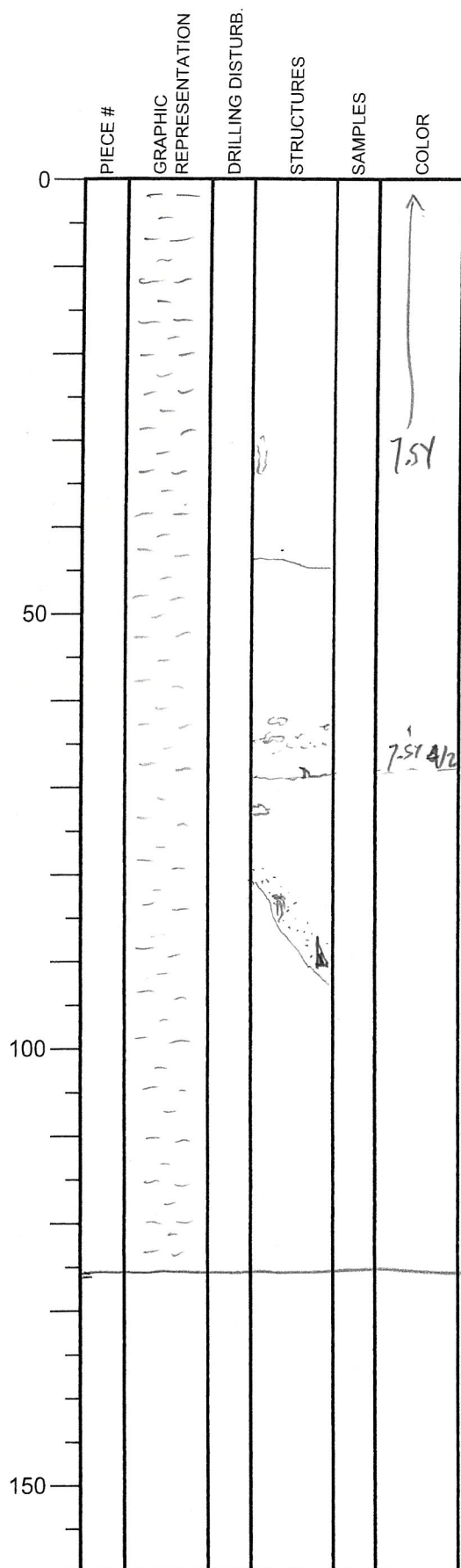
International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: 00019J
 CORE: 63K
 SECTION: 3
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: U. Nicholson

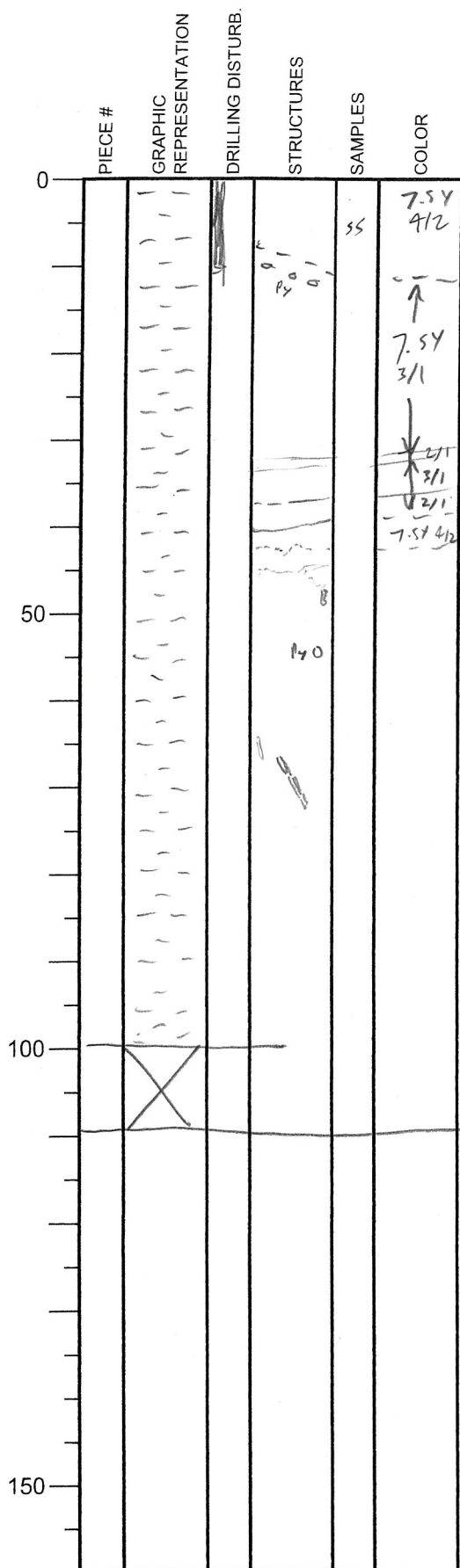


Olive-black mudstone
 Slight bioturbation throughout +
 Deformation bands

International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 63K
 SECTION: 4
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

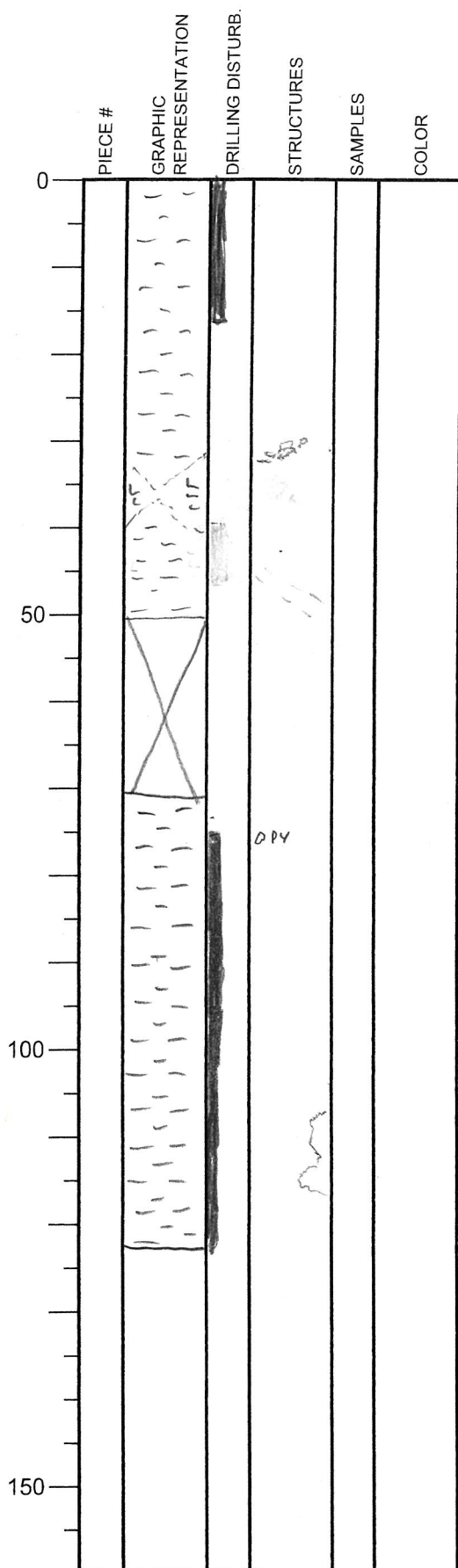
OBSERVER: U. Nicholson
 (Fizzes with HCl but not many obvious forams/nannos.)

calcareous mud - grayish olive color.
 - Pyritized burrows, parallel to bedding
 - Black
 - Black
 - sharp upper boundary
 - undulating, more gradational lower boundary
 - silt filled burrow.
 } calcareous mud grayish olive
 - burrow
 } indurated parallel laminations
 Base of section @ 109 cm

International Ocean Discovery Program

Visual Core Description

NO. 5
 DATE: 19/10/2024
 EXP.: 705
 SITE/HOLE: 0019J
 CORE: 63K
 SECTION: 5
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

{ disturbance (slight)

OBSERVER: U. Nicholson

- ash filled burrows, bedding parallel?

{ ash filled between conjugate fault sets?

- possible parallel lamination

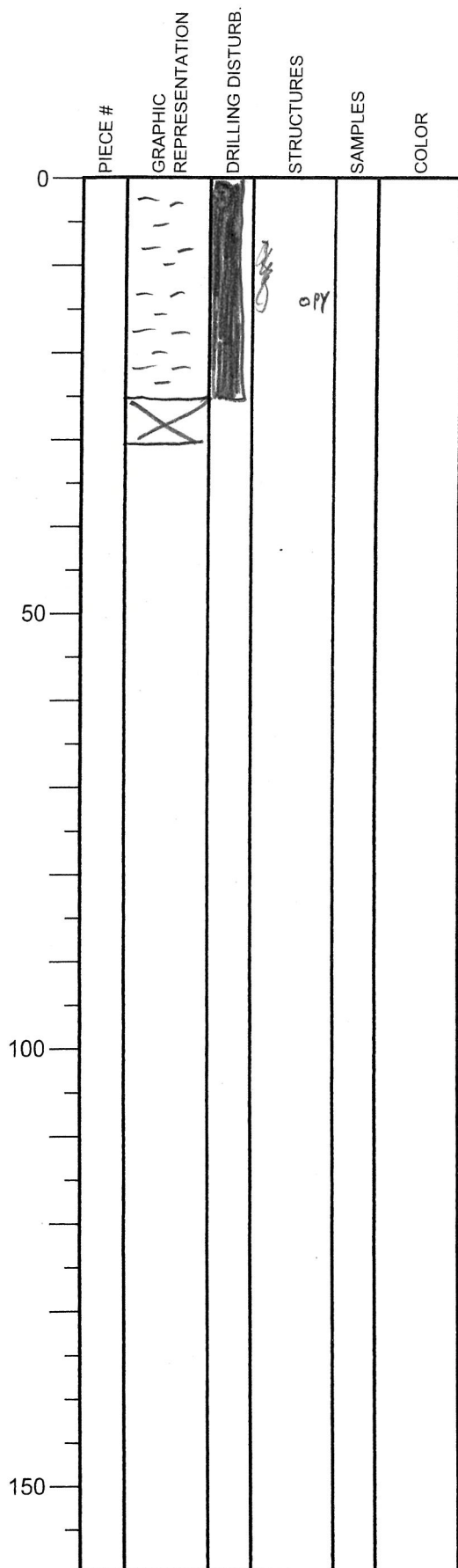
{ mottled

{ Mottled and probable convolute beds.

International Ocean Discovery Program

Visual Core Description

NO. 6
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 63K
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

Structures obscured by
 } slight disturbance.

OBSERVER: U. Nicholson.
 bedding brecciation

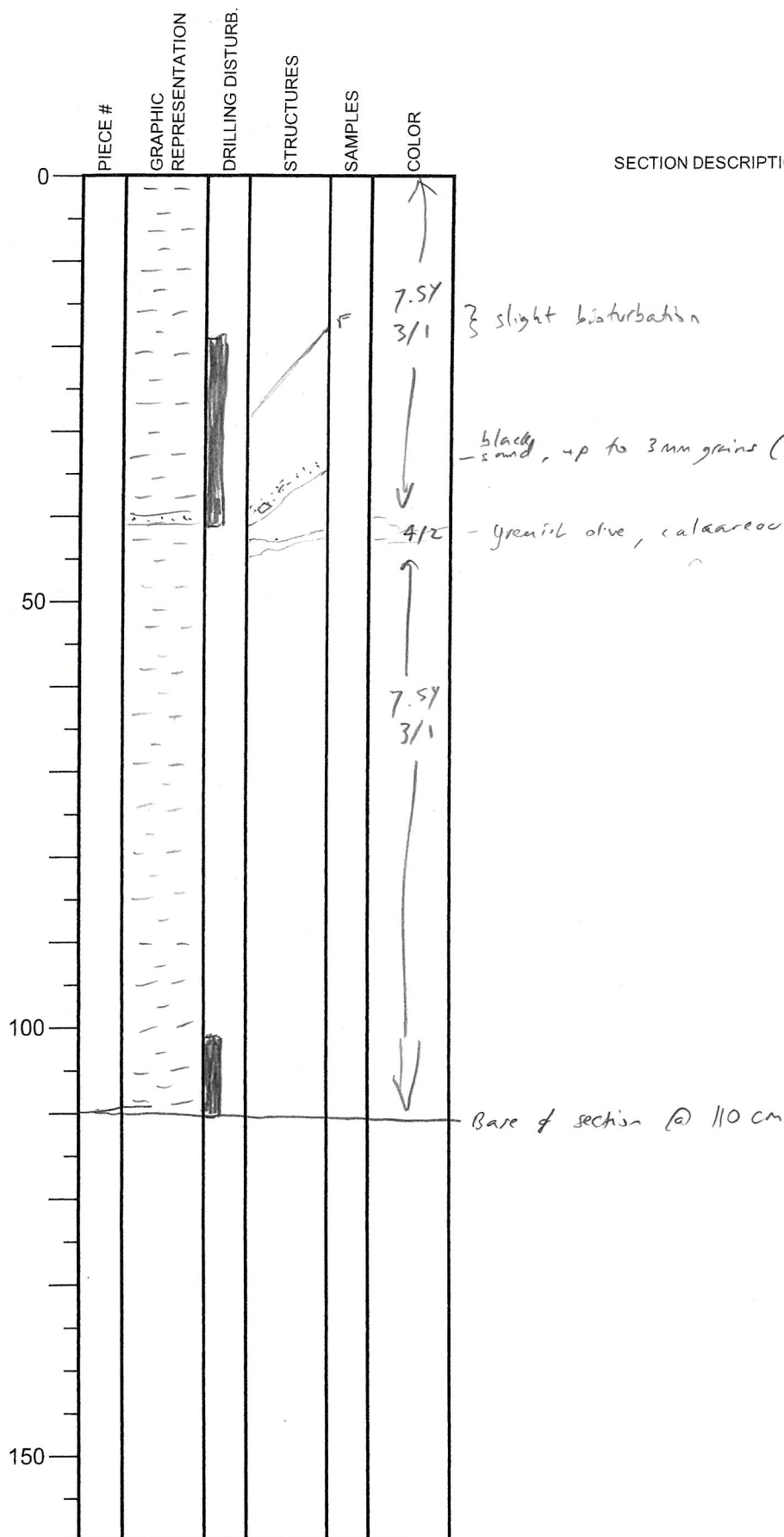
International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: C049J
 CORE: 6+K
 SECTION: 1
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

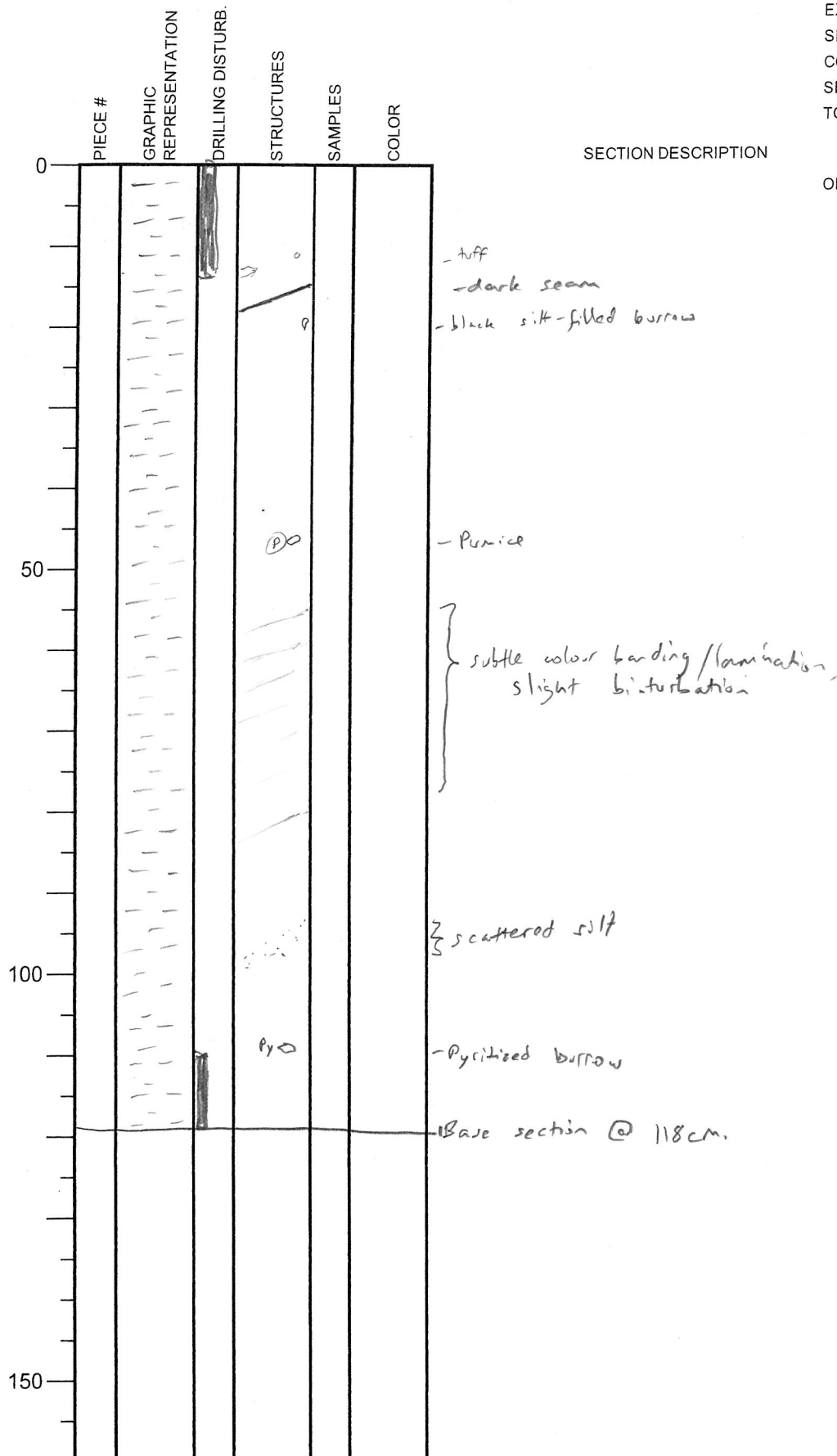
OBSERVER: J. Nicholson



International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 64K
 SECTION: 2
 TOP DEPTH (m CSF):



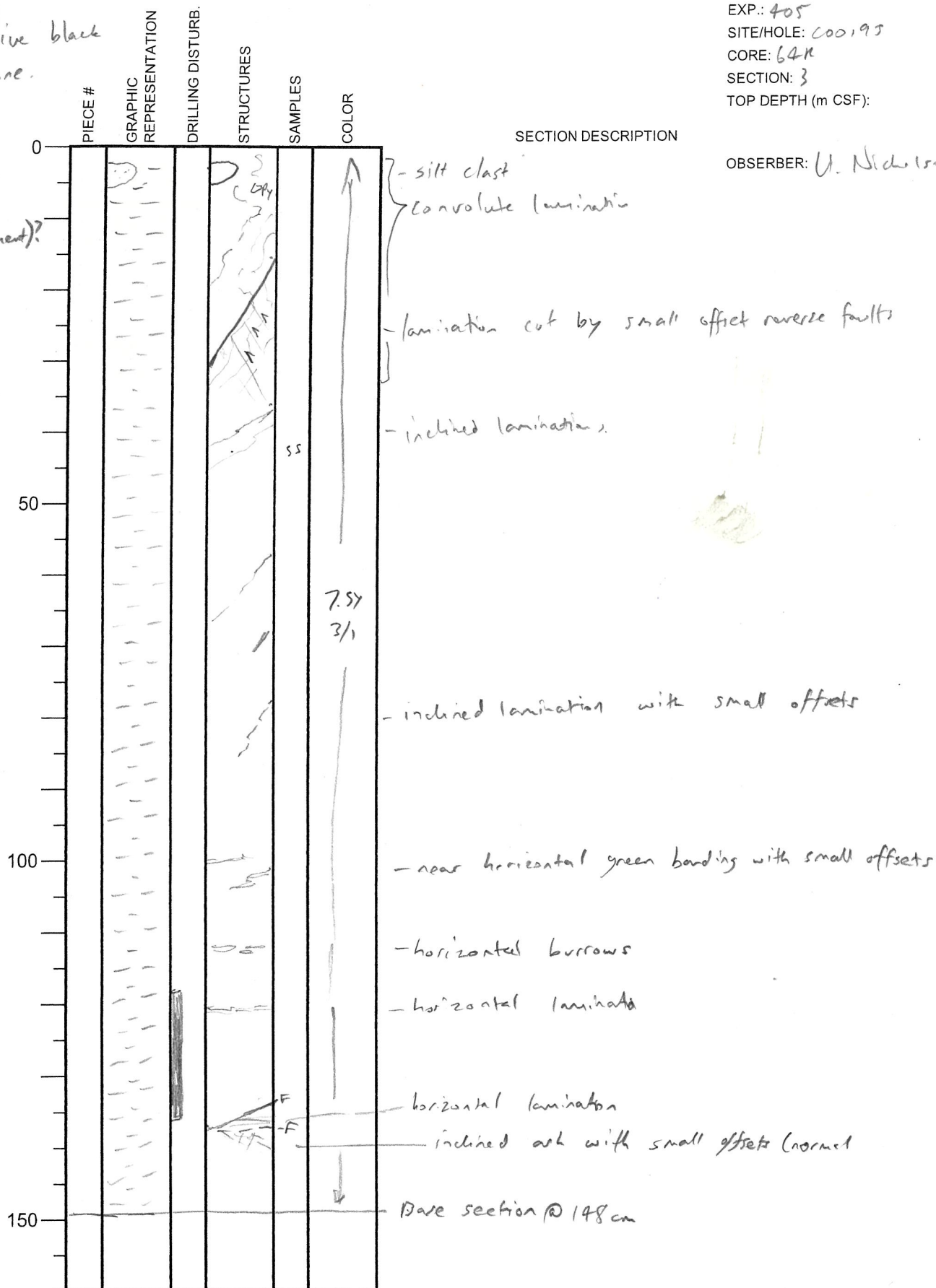
International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 19/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 64R
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER: U. Nicholson

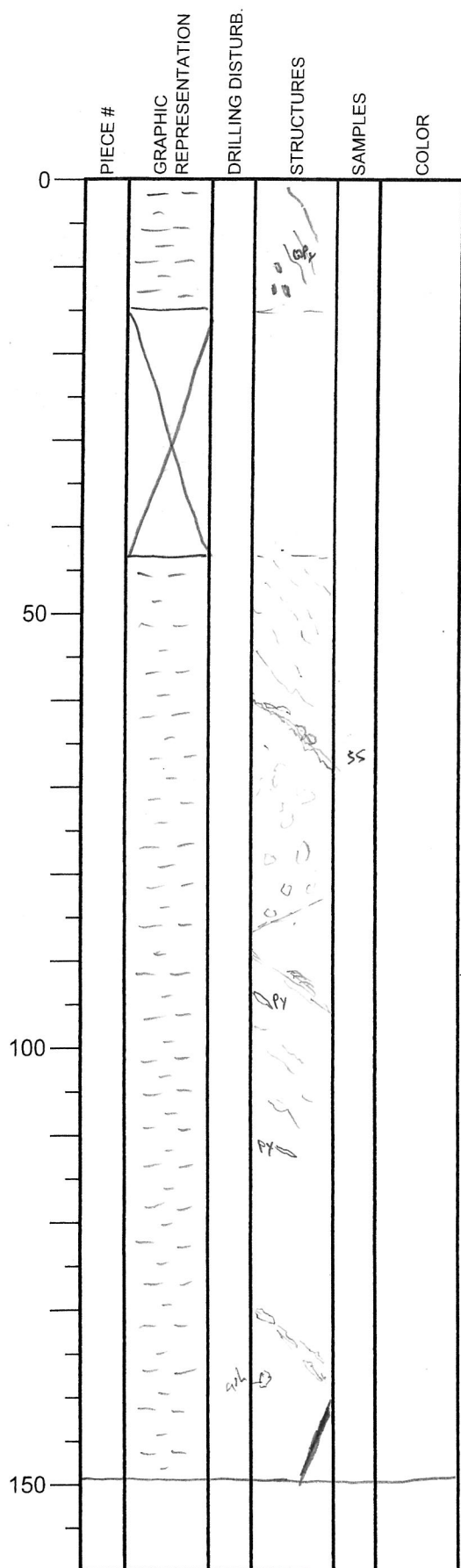
Olive black
 mudstone.
 Significant
 convolute
 bedding +
 faulting
 (soft sediment)?



International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 19/10/2021
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 64K
 SECTION: 7
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: U. Nicholson

- inclined, slightly convolute bedding
 + parallel burrows

{ inclined, slightly convoluted bedding, mottled.

- black + white ash lamination, extensively bioturbated.

{ mottled

- burrow, horizontal

- discontinuous, burrowed ash

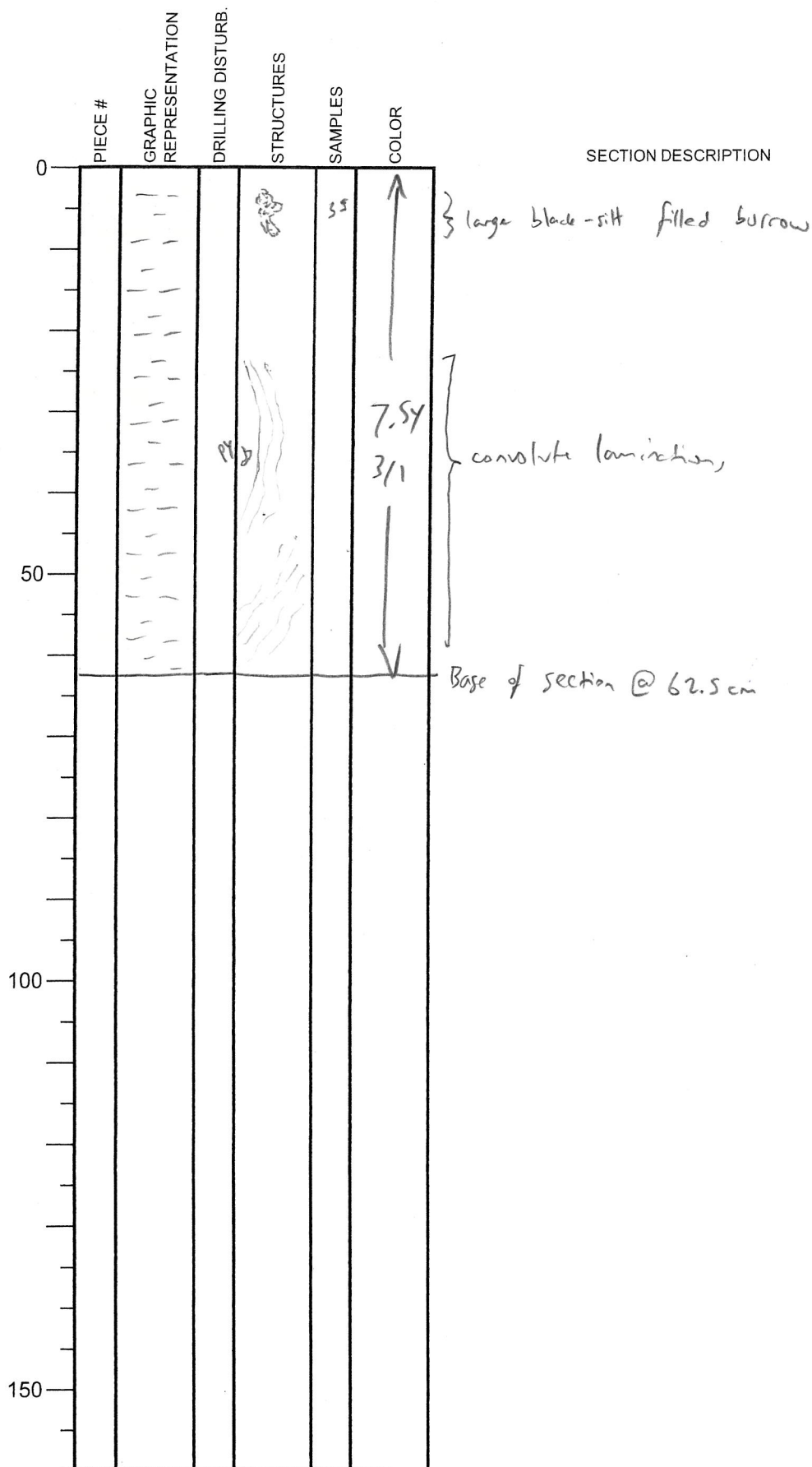
- dark seam

Base section @ 149.5 cm

International Ocean Discovery Program

Visual Core Description

NO. 5
 DATE: 19/10/2024
 EXP: 405
 SITE/HOLE: 60019 J
 CORE: 64K
 SECTION: 5
 TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

NO. 6
DATE: 19/10/2024
EXP.: 405
SITE/HOLE: C0019T
CORE: 64x
SECTION: CC
TOP DEPTH (m CSF):

OBSERVER: U. Nicholson

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

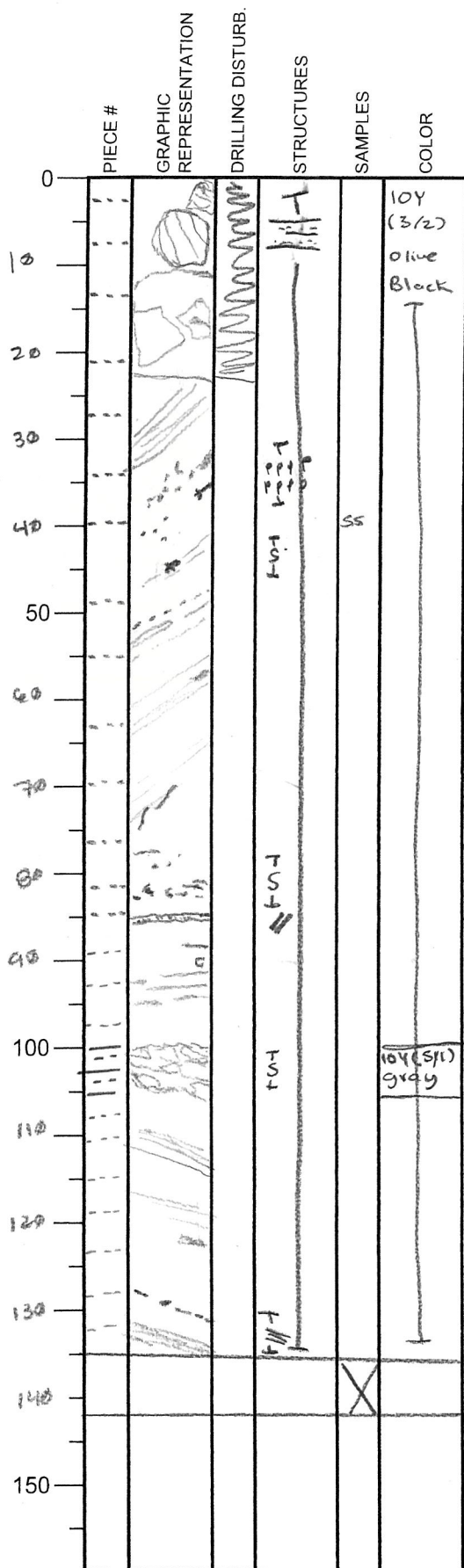
SECTION DESCRIPTION

Olive black mudstone

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 20/12/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 6SK
 SECTION: 1
 TOP DEPTH (m CSF):



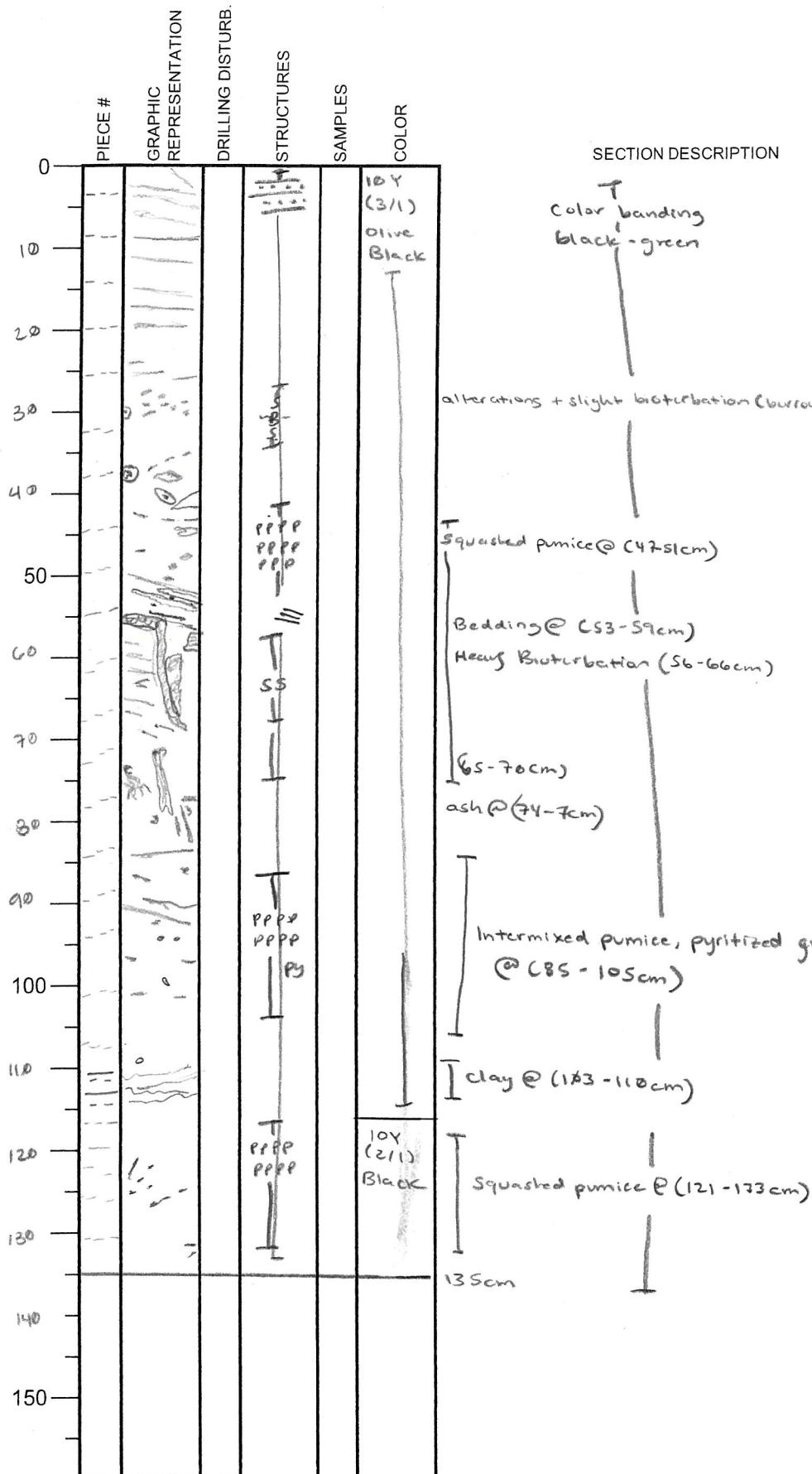
SECTION DESCRIPTION

OBSERVER: René C

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 20/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 65K
 SECTION: 2
 TOP DEPTH (m CSF):



OBSERVER: René Castillo
 *Olive Black - Black mudstone - clay material with black-green alternating color banding, burrows/bioturbation, intermixed ash, pumice, pyrite, crystal granules, and bedding

International Ocean Discovery Program

Visual Core Description

NO. 3

DATE: 20/10/2024

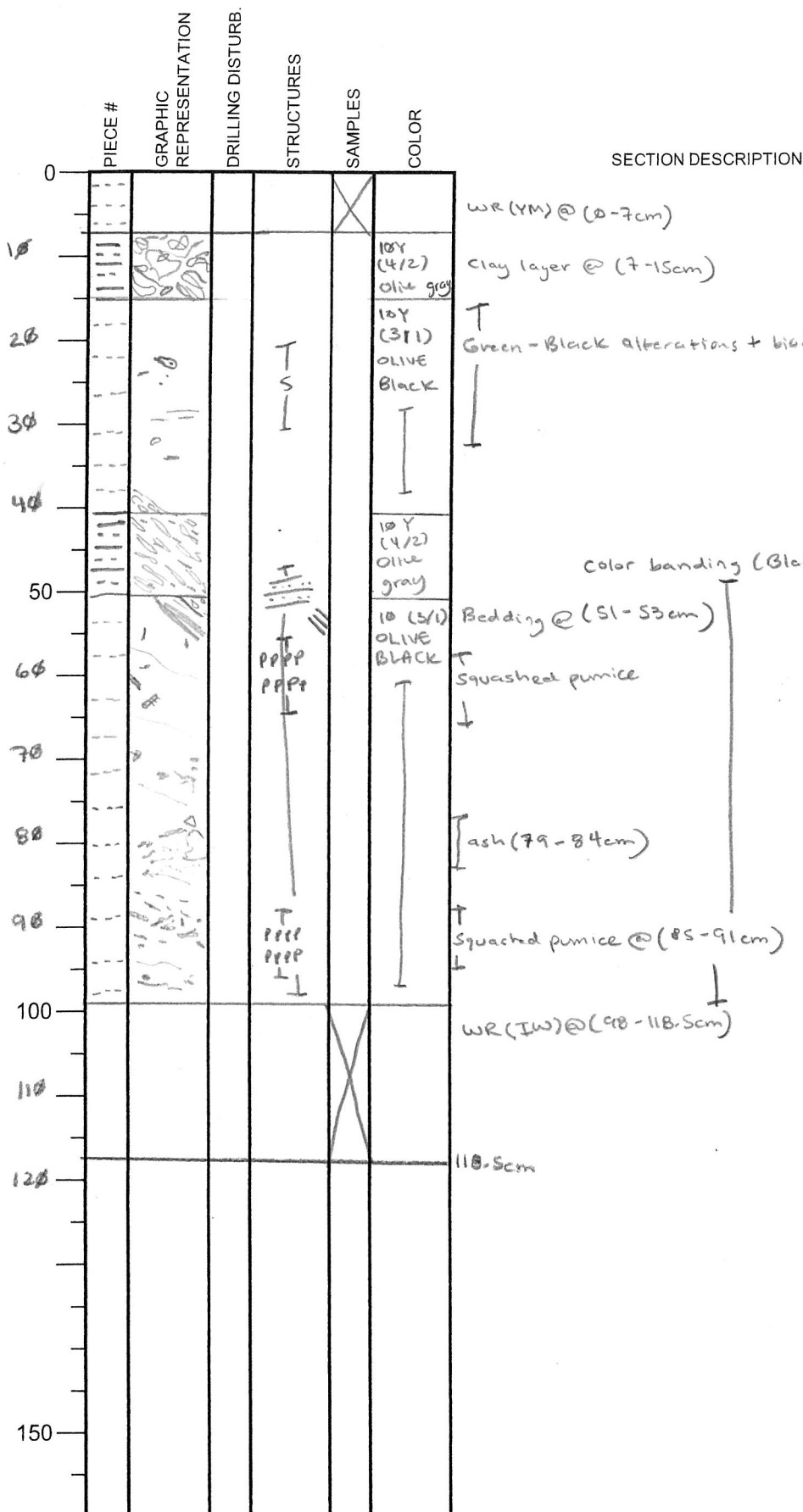
EXP.: 405

SITE/HOLE: C0019J

CORE: GSK

SECTION: 3

TOP DEPTH (m CSF):



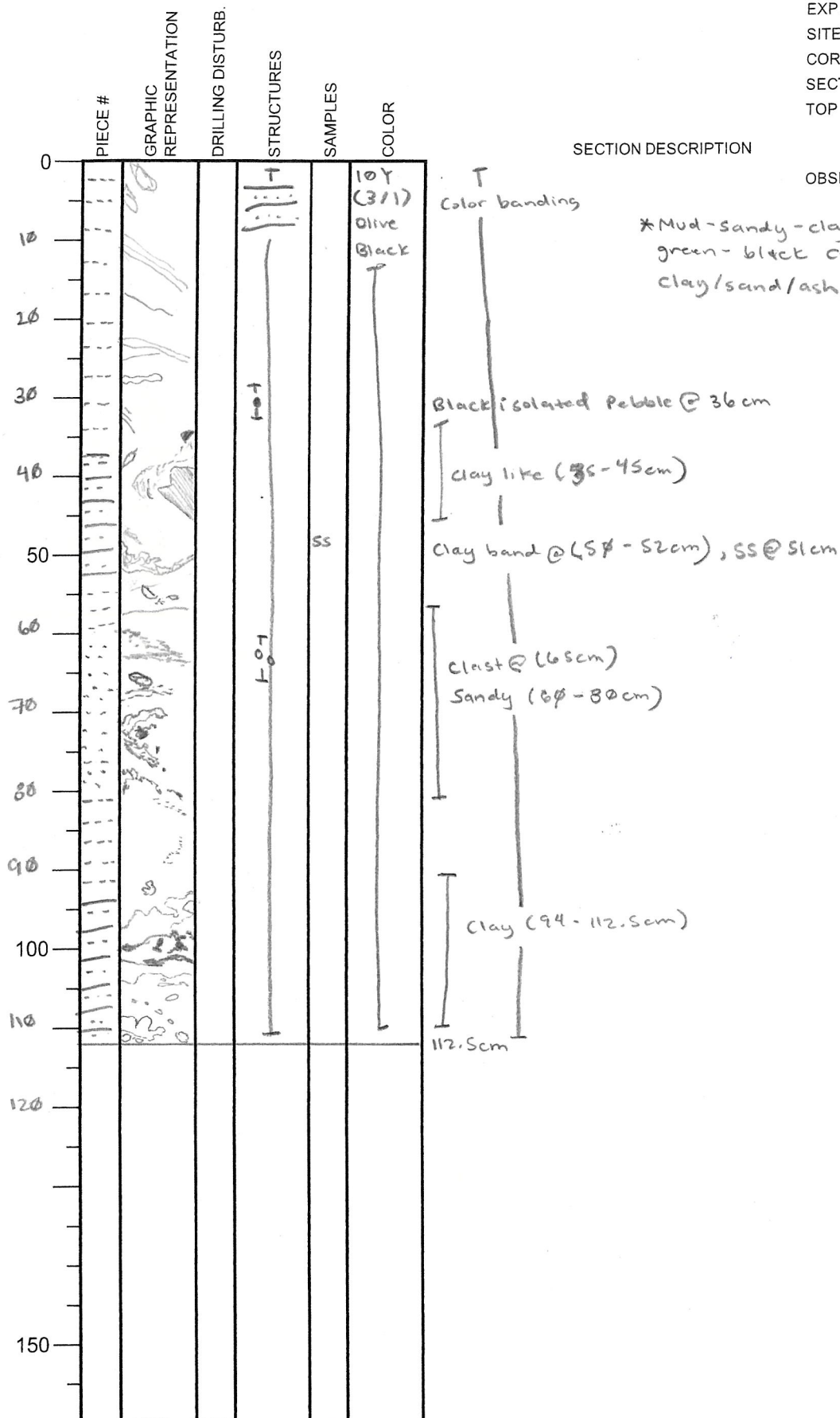
OBSERVER: René Castillo

* Olive-gray-Black clay-mudstone with ash/pumice, color banding (Black), and bioturbation/bedding

International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 20/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 6SK
 SECTION: 4
 TOP DEPTH (m CSF):

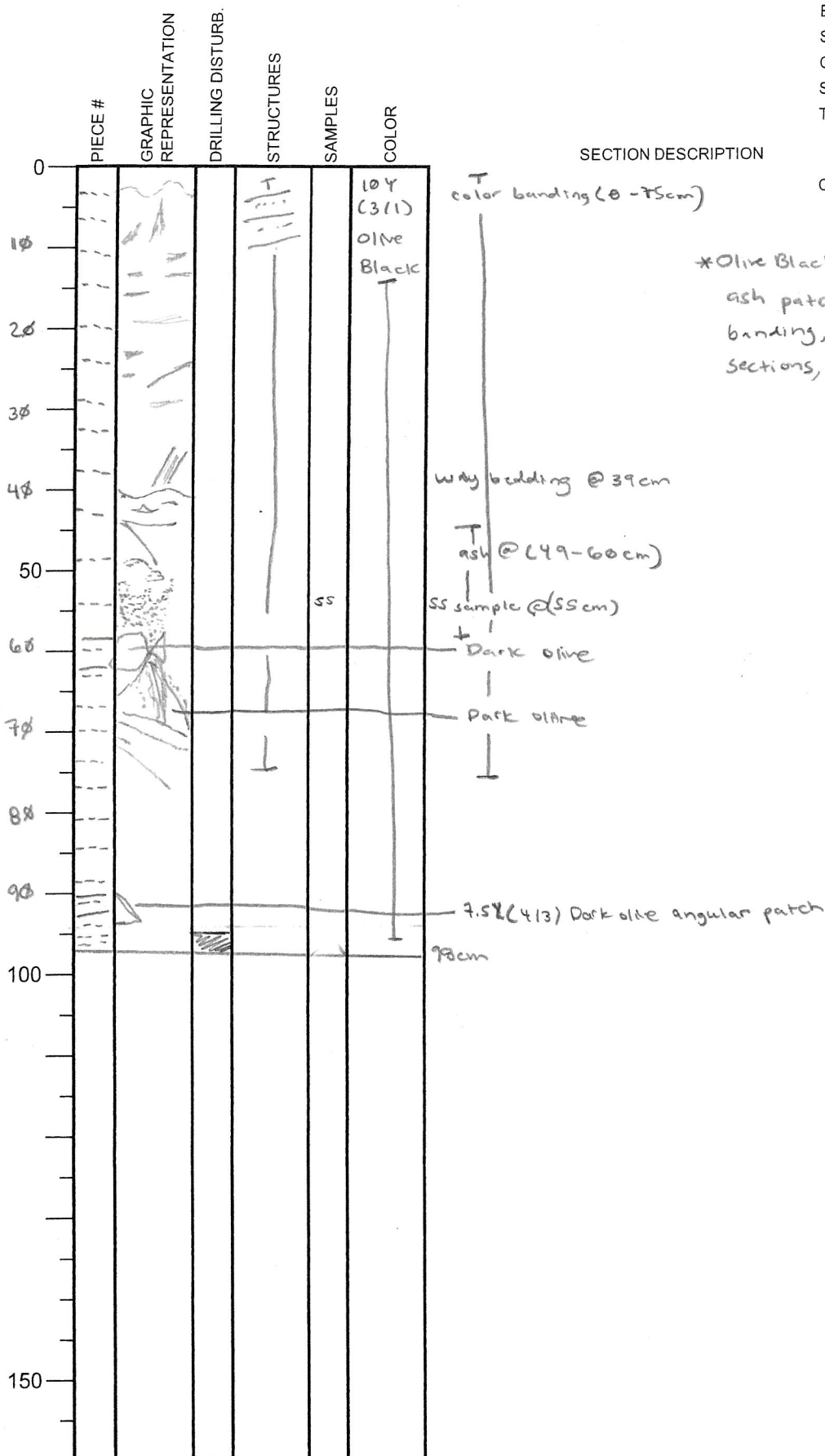


OBSERVER: René Castillo

International Ocean Discovery Program

Visual Core Description

NO. S
 DATE: 20/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: GSK
 SECTION: S
 TOP DEPTH (m CSF):

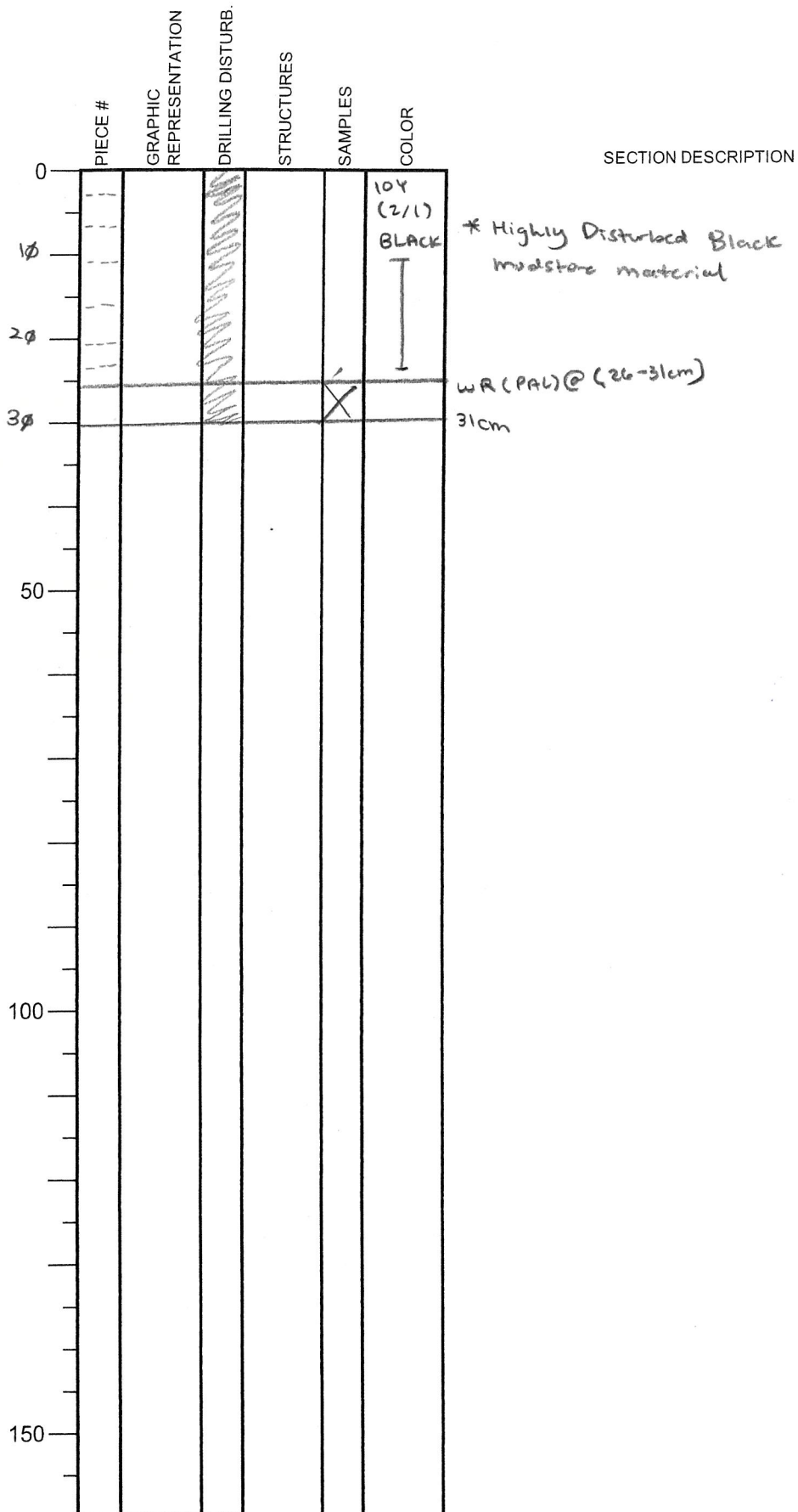


OBSERVER: René Castillo

*Olive Black mud-clay material with ash patch (significant size), color banding, angular Dark olive clay sections, and wavy bedding.

International Ocean Discovery Program Visual Core Description

NO. 6
DATE: 20/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 65K
SECTION: CC
TOP DEPTH (m CSF):



OBSERVER: René C

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 20/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 405
SECTION: 66K
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					10Y (3/1) olive Black
10					
20					
30					
40					
43.5	VOID		VOID		
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: René Castillo

* Highly Disturbed, sub angular disaggregated pieces with pumice and clay. Olive Black mudstone material

43.5cm

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 24 10/20 24
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 60x
 SECTION: 2
 TOP DEPTH (m CSF):

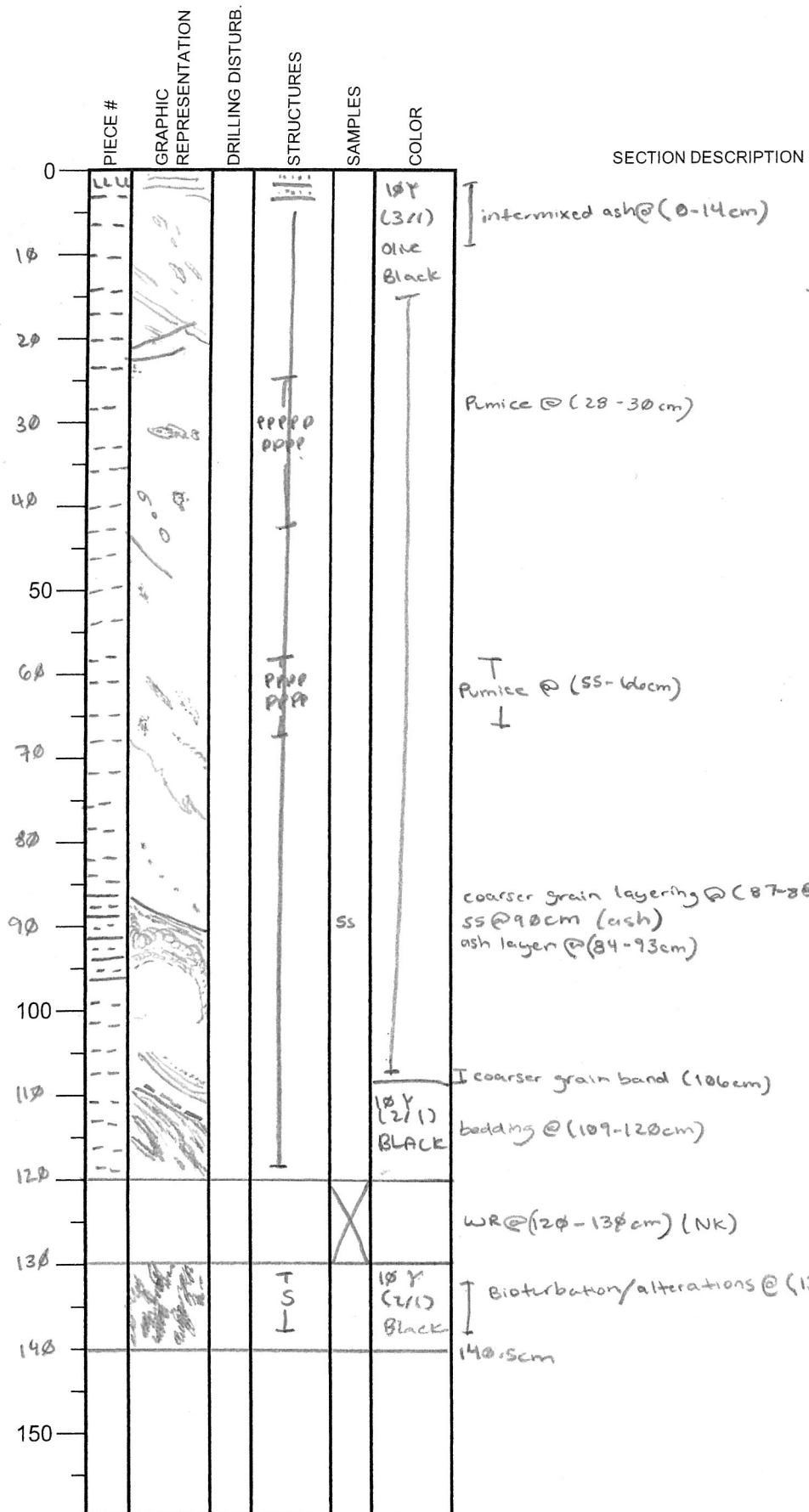
PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0						
10				X		WR@ (0-7cm)
20				10Y (3/1) olive Black		bioturbation (10cm)
30				ss		ss@ (23cm) Rep. convolute banding
40						WR@ (27-48cm)
50					olive Black	pumice (55-58cm)
60						
70						pyritized pumice (66-67cm)
80						
90						WR@ (73-106cm)
100						
110					OLIVE BLACK	
120						color banding (black) ash (120-125)
130						127.5cm
140						
150						

OBSERVER: René Castillo

* Mud-clay olive black material, black banding, pumice/ash, pyrite, slight bioturbation
 * SS Representative

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 20/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 66k
SECTION: 3
TOP DEPTH (m CSF):

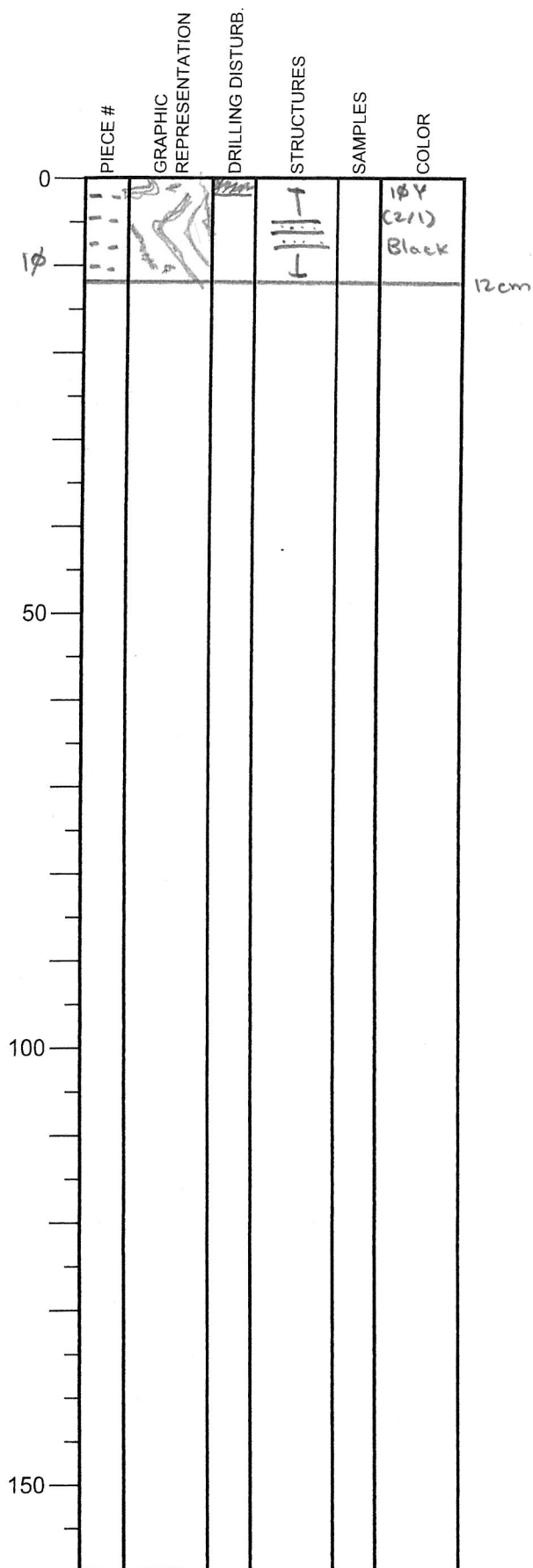


OBSERVER: René Castillo

* ashy mud - mudstone/clay material (olive Black) with pumice, black/green banding/alterations, coarse grains/ash layering and bioturbation.

International Ocean Discovery Program Visual Core Description

NO. 4
DATE: 20/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 66K
SECTION: 4
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: René Castillo

* Black mudstone with black color banding/alterations.

International Ocean Discovery Program

Visual Core Description

NO. 5
 DATE: 20/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 66K
 SECTION: CC
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: René Castillo

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					10Y (2/1) Black
10					
20					
30					
40				X	
50					
100					
150					

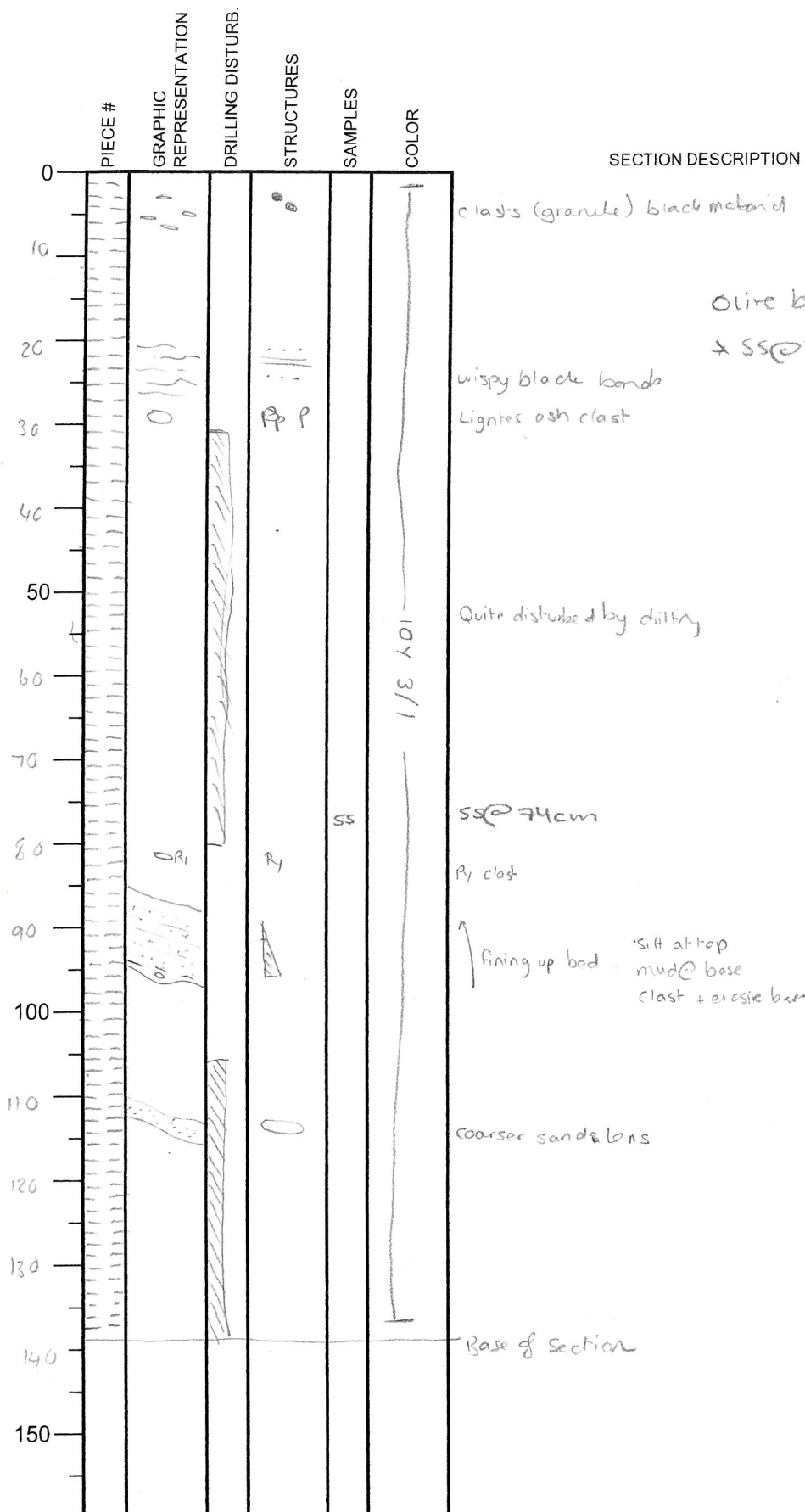
* Highly disturbed mudstone
 material (Black)

35.5cm
 - WR (PAL) @ (35.5cm - 40.5cm)
 40.5cm

International Ocean Discovery Program

Visual Core Description

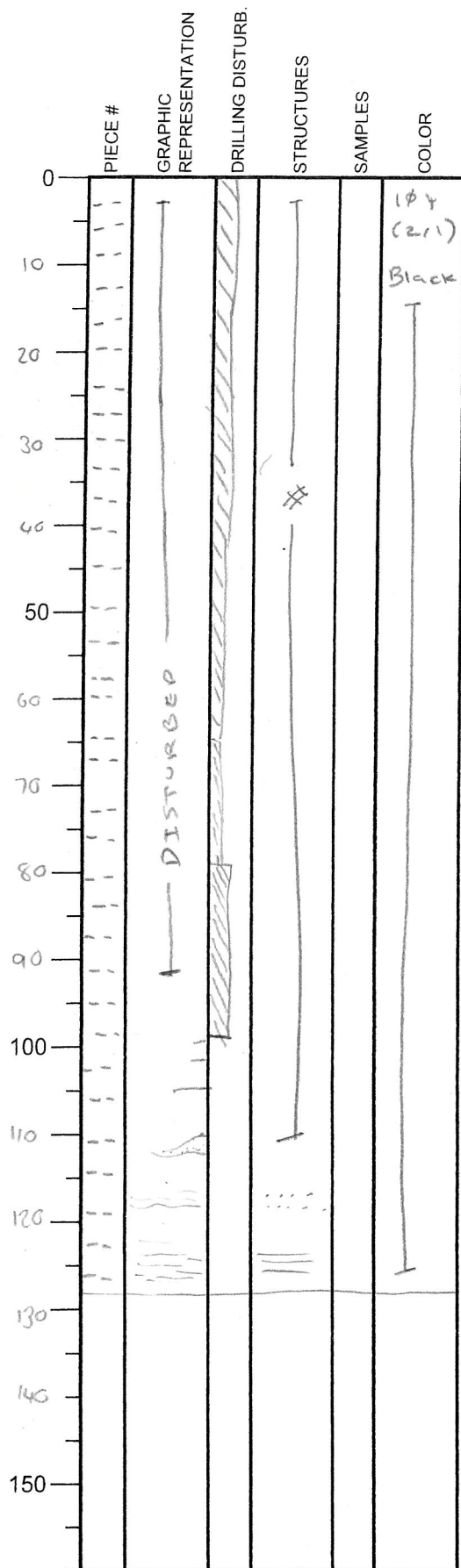
NO. 1
 DATE: 20/10/2024
 EXP.: 405
 SITE/HOLE: (0019)
 CORE: 672
 SECTION: 1
 TOP DEPTH (m CSF): —



OBSERVER: Amy/Rene

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 2010/20 24
EXP.: 405
SITE/HOLE: C0019J
CORE: 67K
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Amy & René

* Silty mudstone (Black)
with color banding, silty
lamina, blocky horizontal
lamina.

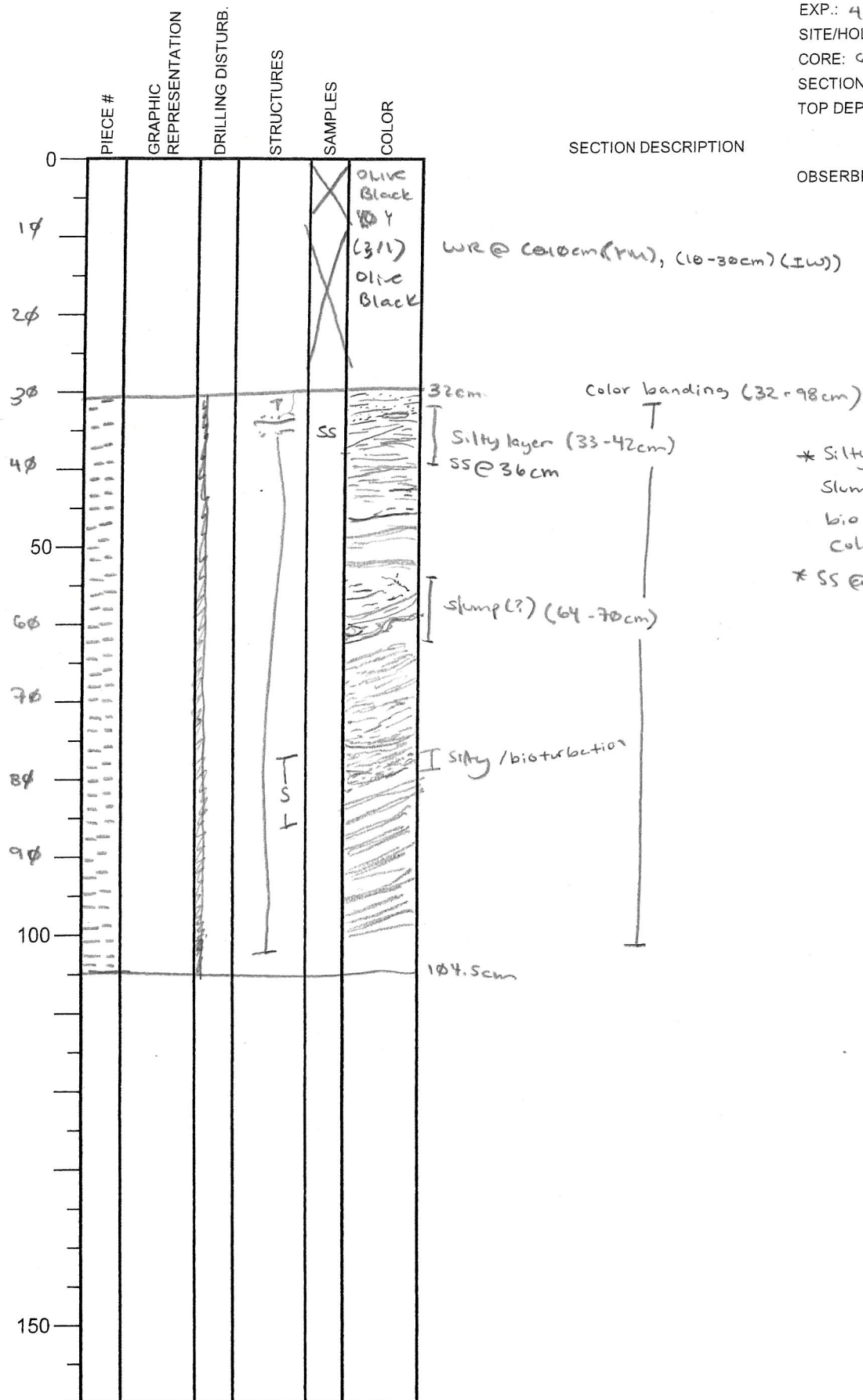
color banding
siltstone
silty laminae
horizontal block laminae
Base of section

International Ocean Discovery Program

Visual Core Description

NO. 3
 DATE: 26/10/2024
 EXP.: 405
 SITE/HOLE: C00119J
 CORE: GTK
 SECTION: 3
 TOP DEPTH (m CSF):

OBSERVER: René C.

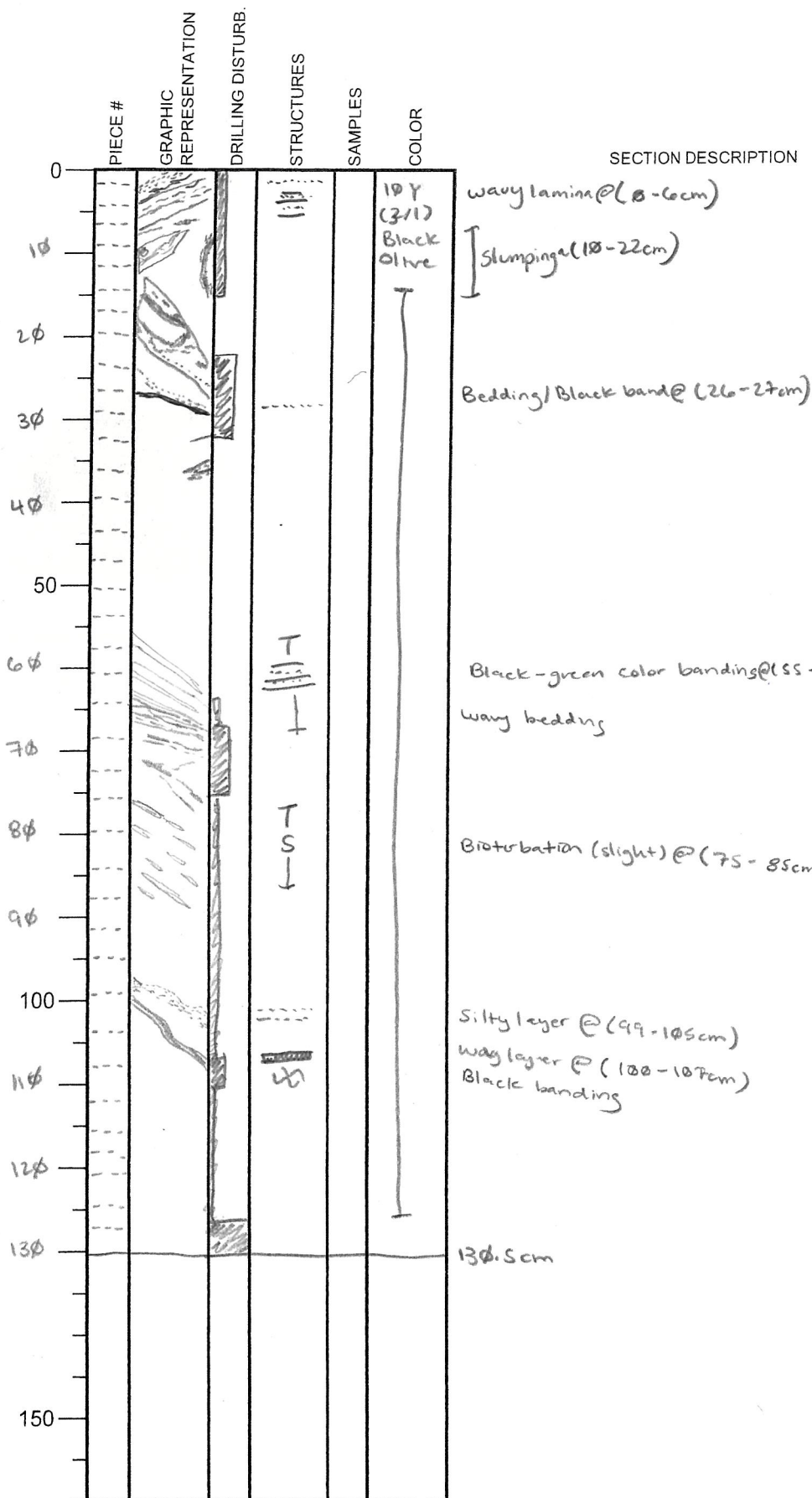


* Silty mudstone, Olive black,
 Slumping, bedding, slight
 bioturbation, black
 color banding
 * SS @ 36cm

International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 30/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 67K
 SECTION: 4
 TOP DEPTH (m CSF):



OBSERVER: René C.
 * Olive black silty-mudstone, black-green discoloration/banding, bedded, silty layers, bioturbation, wavy banding

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 20/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 68K
 SECTION: 1
 TOP DEPTH (m CSF): -

OBSERVER: Amy G

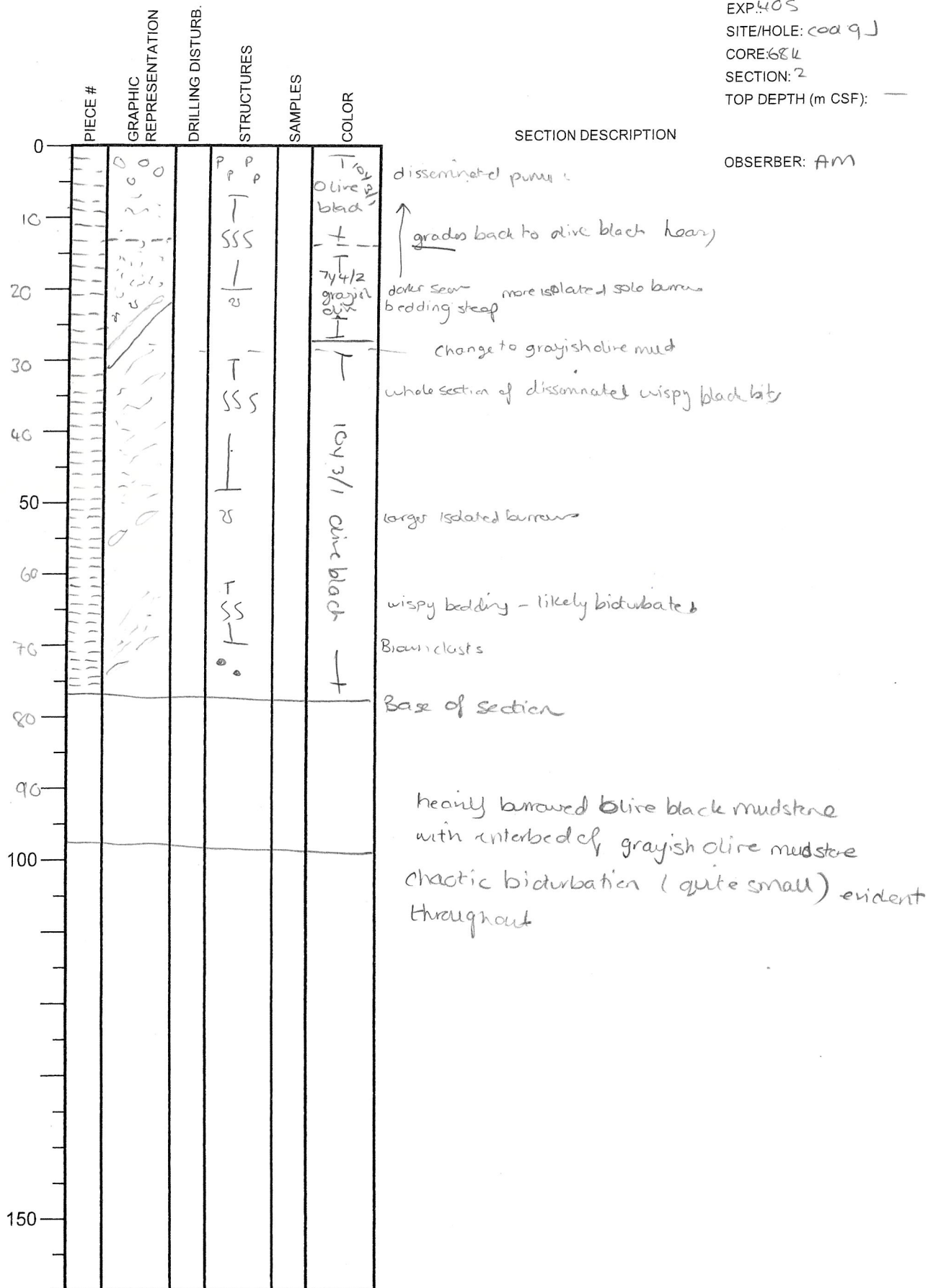
PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0			SSS		HC 5/1 Dirt black	heavily bioturbated black mud to top
10			SSS		74	light brown mud - more bioturbated * light up
20			SSS PpPr		4/2 grayish brown	heavily bioturbated area (Silt grade)
30					T	indurated pumice clast
40			SSS		by 3/1 dirt black	almost rectile lamination
50						heavily bioturbated layer infilled burrow one burrow of Taenidium
60						Pumice clast / area of ash
70			SSS		T	wispy disseminated black bands throughout heavily bioturbated (ichno unknown) wispy ash disseminated
80						Base of section
90						
100						ichnofacies - small community burrows - simple and uniform
110						
120						
130						
140						
150						

* not calcareous

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 20/10/2024
 EXP: 405
 SITE/HOLE: coa 9-J
 CORE: 684
 SECTION: 2
 TOP DEPTH (m CSF): —

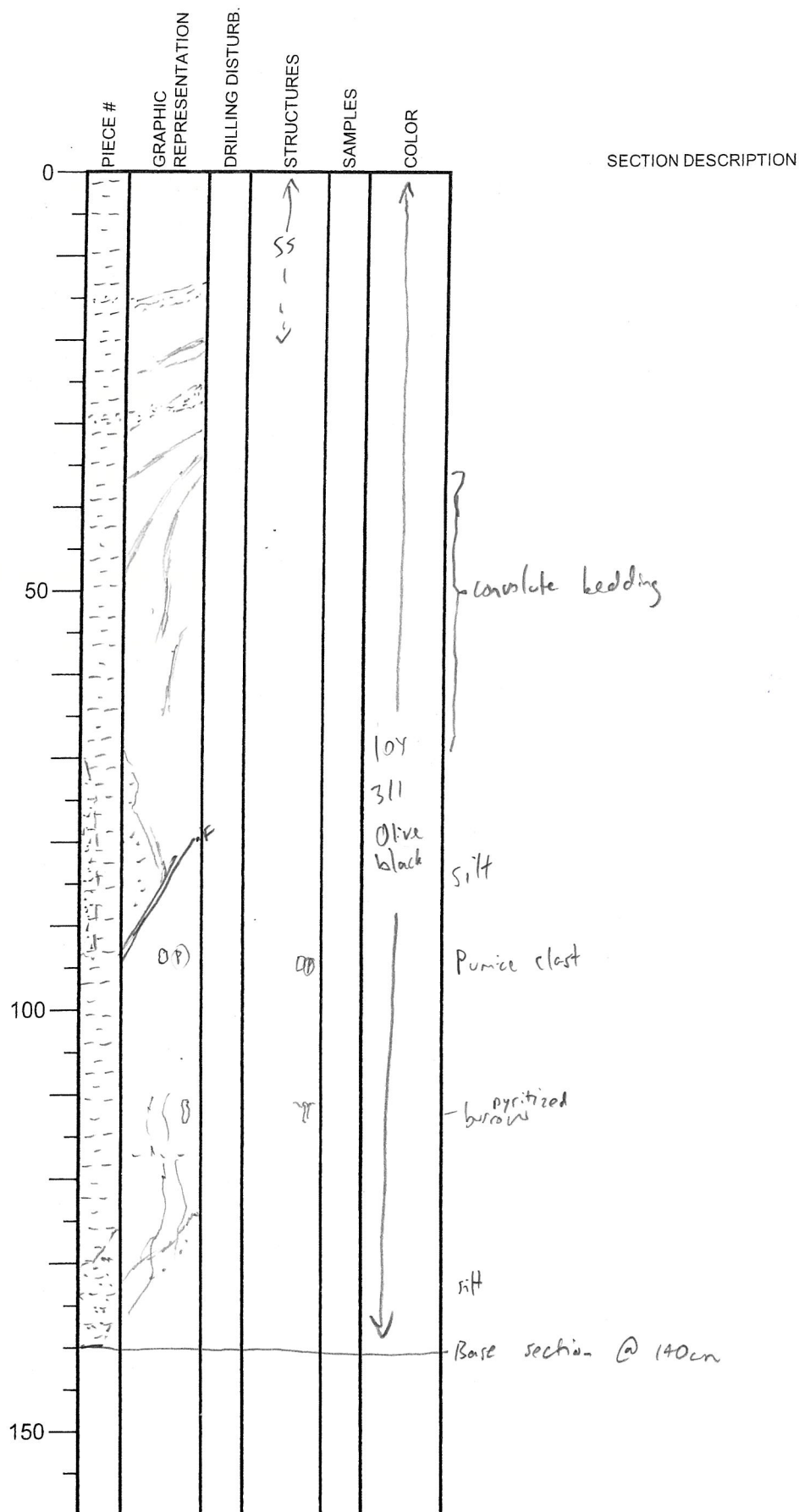


OBSERVER: AM

International Ocean Discovery Program Visual Core Description

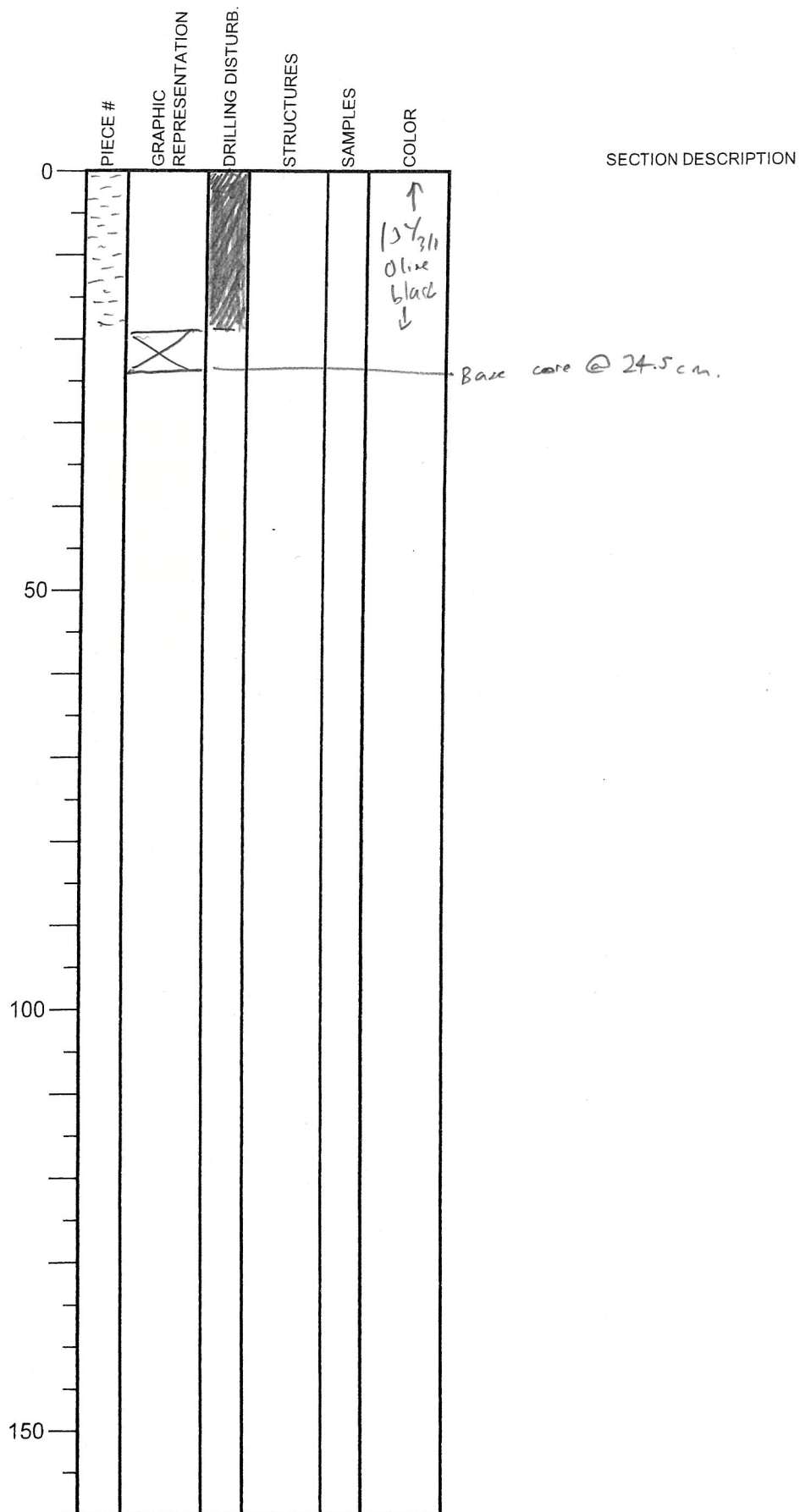
NO. 3
DATE: 26/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: ~~34~~ 68K
SECTION: 3
TOP DEPTH (m CSF):

OBSERVER: U. Nicholson



International Ocean Discovery Program Visual Core Description

NO. 4
DATE: 20/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 68K
SECTION: CC
TOP DEPTH (m CSF):

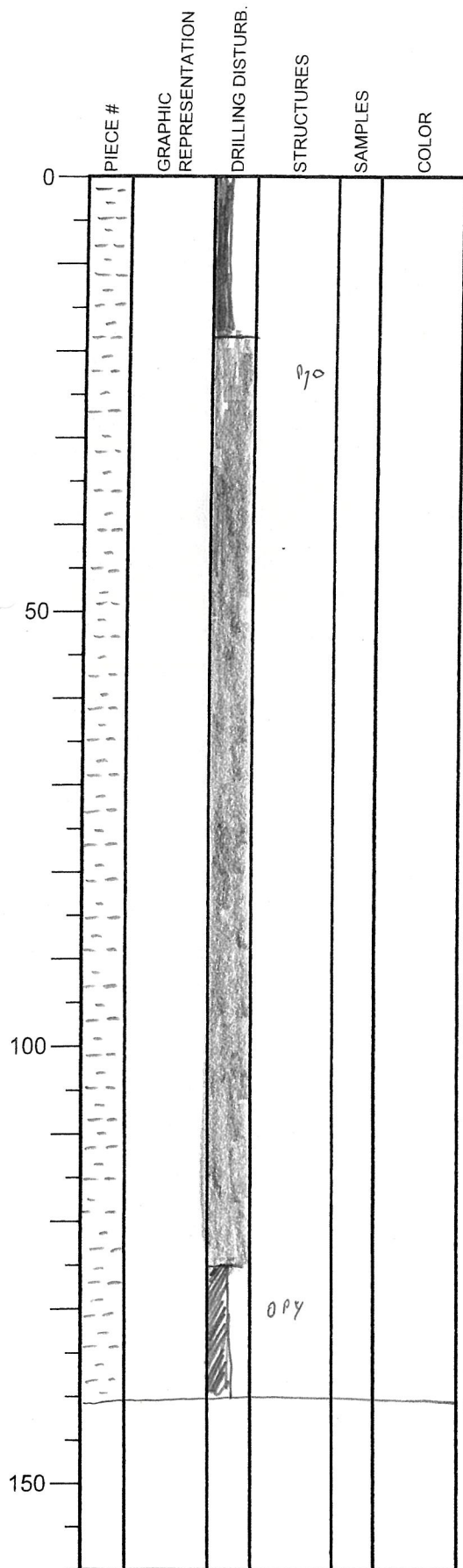


OBSERVER: A. Nicholas

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 20/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 69k
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: U. Nidaleon

Olive-black mudstone, almost completely brecciated

pyritized burrow

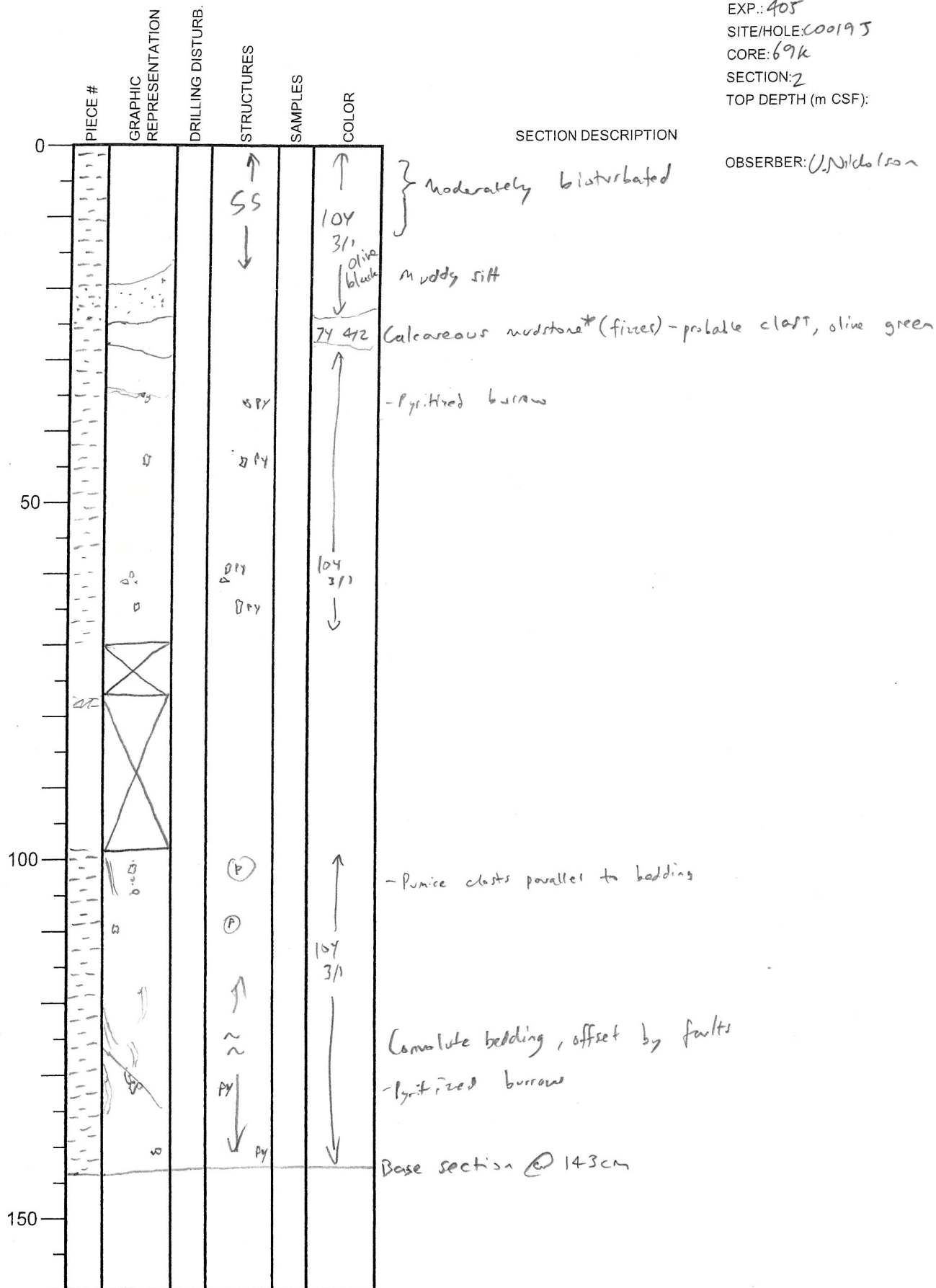
pyritized burrow.

Base section @ 141 cm

International Ocean Discovery Program

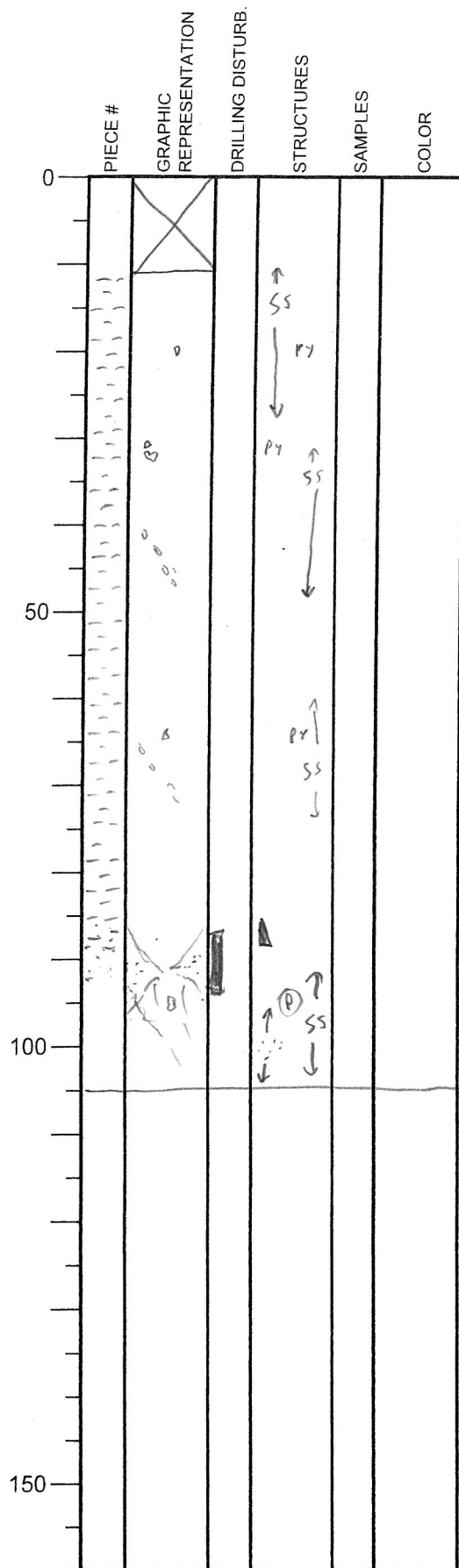
Visual Core Description

NO. 2
 DATE: 20/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 69k
 SECTION: 2
 TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

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



SECTION DESCRIPTION

OBSERVER:

- Pyritized burrow

- aligned burrows, likely bedding parallel

} small burrows

- probable bed of silt/ash, bisecting

} bioturbation, scattered silt

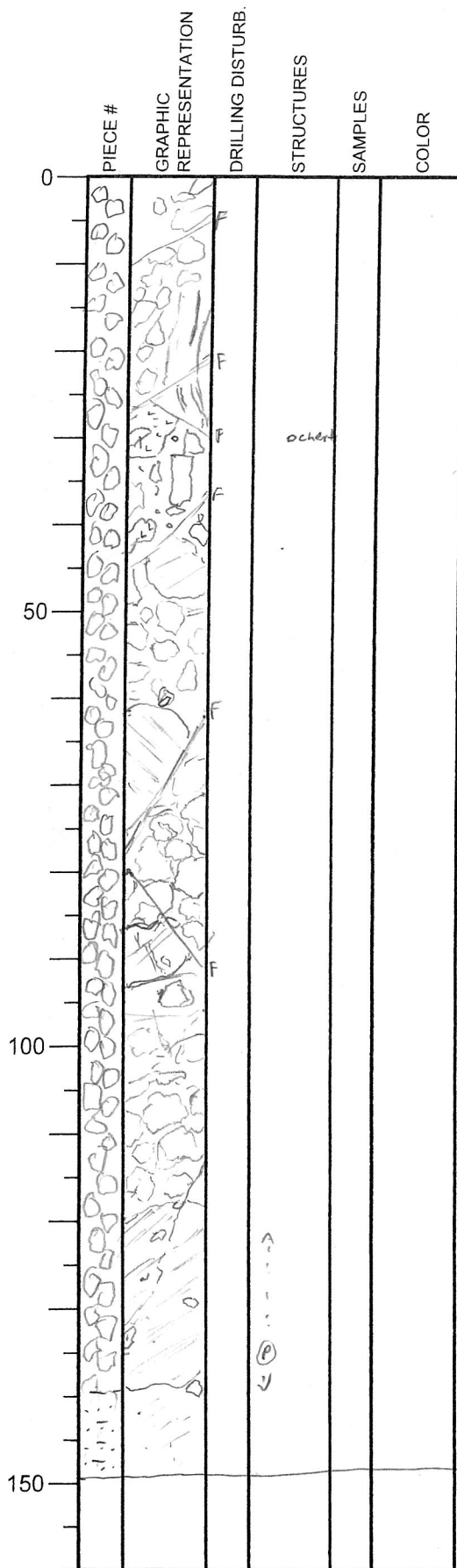
Base section @ 105 cm

Bedding near vertical,
convoluted? heavily
bioturbated + faulted.

International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 20/10/2024
 EXP.: 403
 SITE/HOLE: C0019J
 CORE: 69K
 SECTION: 4
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: U. Nicholson

Clast supported conglomerate with muddy matrix.
 Individual clasts are subrounded (mostly) to angular and often in contact with each other.
 Lamination? in some clasts, possibly (rarely) in matrix (eg. 20-30cm).
 Clasts include other sedimentary rocks that we have seen elsewhere in the prism (siliceous mudstone, ash, mudstone, ash, chloritic ash, siltstone) but also one small chert granule
 - muddy debrite

} clast of breccia/conglomerate within debrite

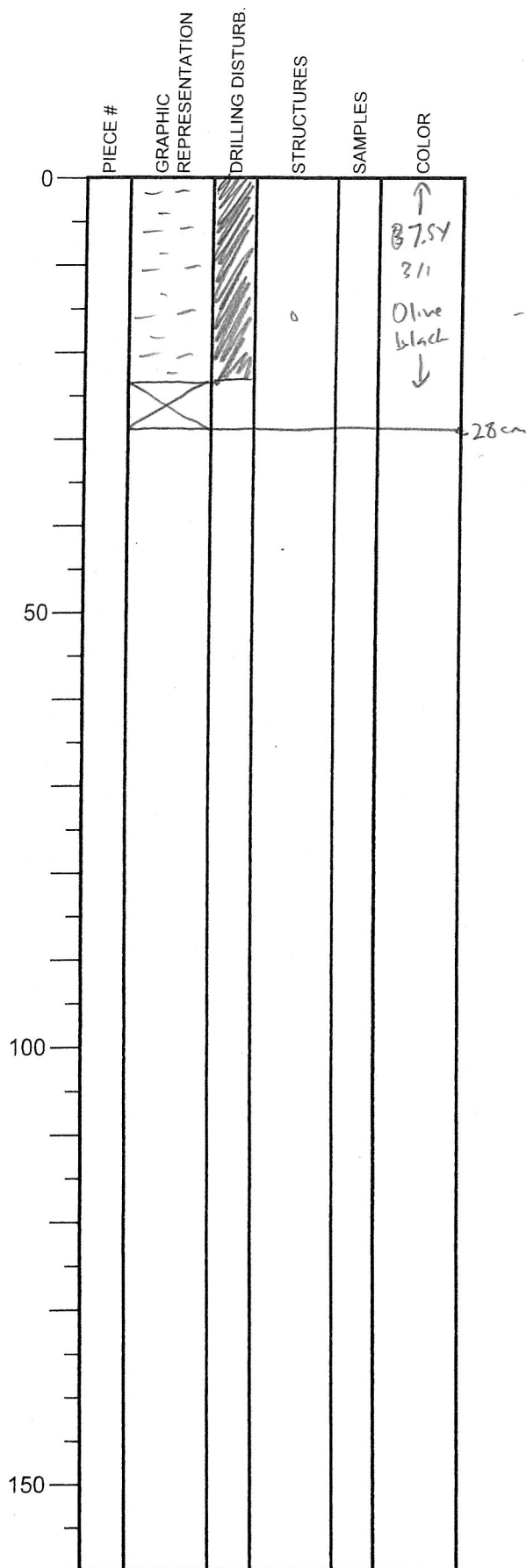
} One large clast, at least 20cm diameter, with abundant pumice clasts + green banding

} sheared siltstone at base, or part of a larger clast?

Base of section @ 148cm

International Ocean Discovery Program Visual Core Description

NO. ~~45~~
DATE: 20/10/2024
EXP.: 405
SITE/HOLE: 0019J
CORE: 69K
SECTION: CC
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: U. Nicholson

Olive black mudstone
completely brecciated by drilling

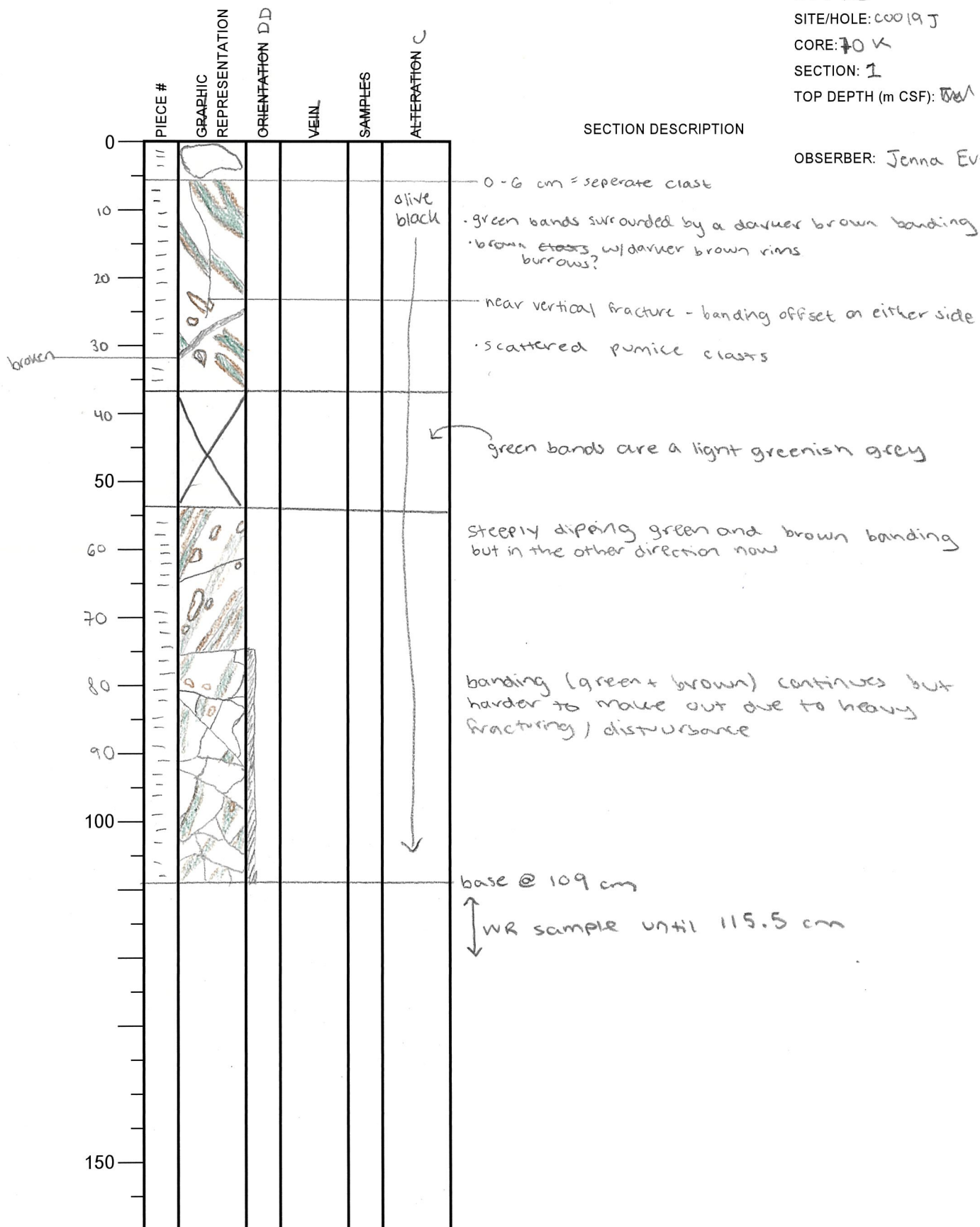
- ophiomorphic burrow

International Ocean Discovery Program

Visual Core Description - Hard Rock -

NO.
DATE: 20/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 10 V
SECTION: 1
TOP DEPTH (m CSF): 10.1

OBSERVER: Jenna Everard



International Ocean Discovery Program

Visual Core Description - Hard Rock -

NO.

DATE: 24/10/20

EXP.: 405

SITE/HOLE: C00193

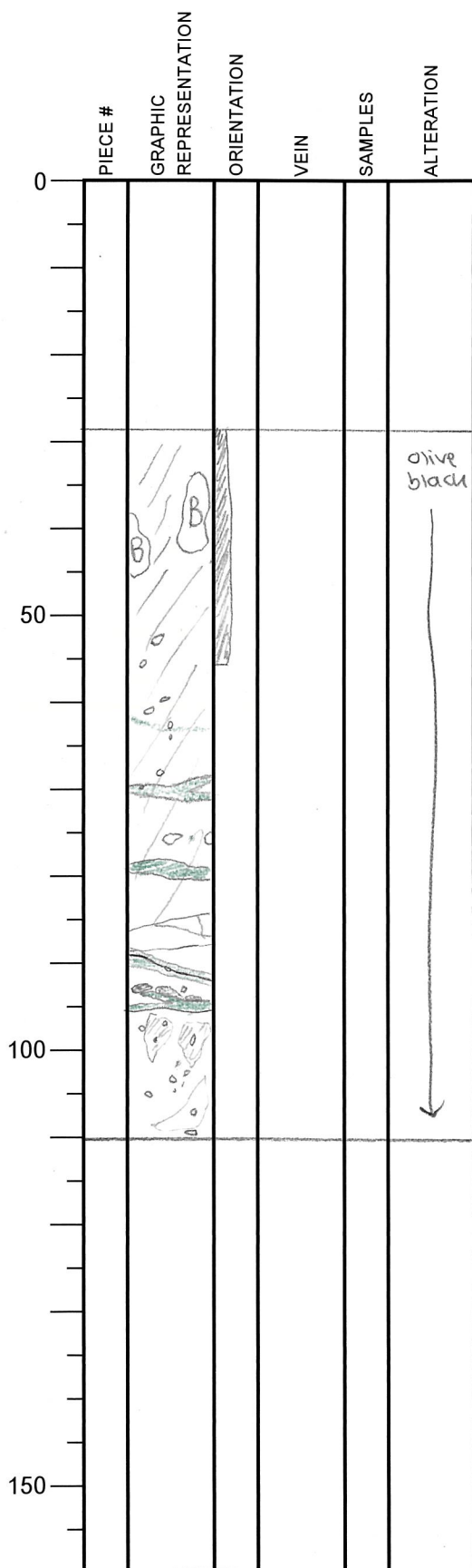
CORE: 70W

SECTION: 2

TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: Jenna Everard



→ scattered pumice clasts throughout
→ abundant biotite shards (in burrows)

heavily fractured but main features consistent with previous section:

- ① green banding
- ② brown burrows
- ③ scattered pumice
- ④ ash layers

most not continuous due to broken nature of core

↑ no longer steeply dipping though!

· near horizontal green bands topped by coarser ash layer
· burrows + scattered pumice

bottom @ 110 cm

International Ocean Discovery Program

Visual Core Description - Hard Rock -

NO.

DATE: 20/10/2024

EXP.: 405

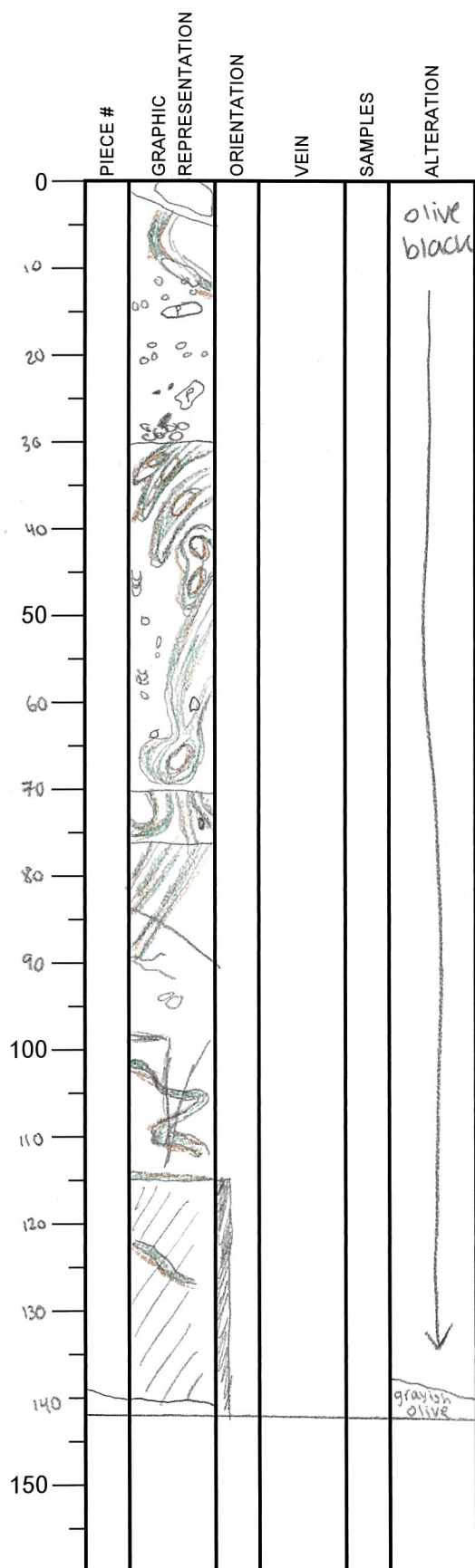
SITE/HOLE: C0019J

CORE: 70K

SECTION: 3

TOP DEPTH (m CSF):

OBSERVER: Jenna Everard



SECTION DESCRIPTION

various color clasts (see below for more detail)

wavy green/brown banding

Abundant burrows throughout

31-88 cm: convoluted/convolution of bedding

clasts throughout like we saw before - range from dark to light green, light grey, light brown, and white

pumice

-green band either dips or is offset by a fault → goes dip b/c then very curvy

-heavily disturbed until bottom contact

angular lithology change/contact at 139-141 cm bottom @ 142 cm

International Ocean Discovery Program

Visual Core Description - Hard Rock -

NO.

DATE: 20/10/2024

EXP.: 405

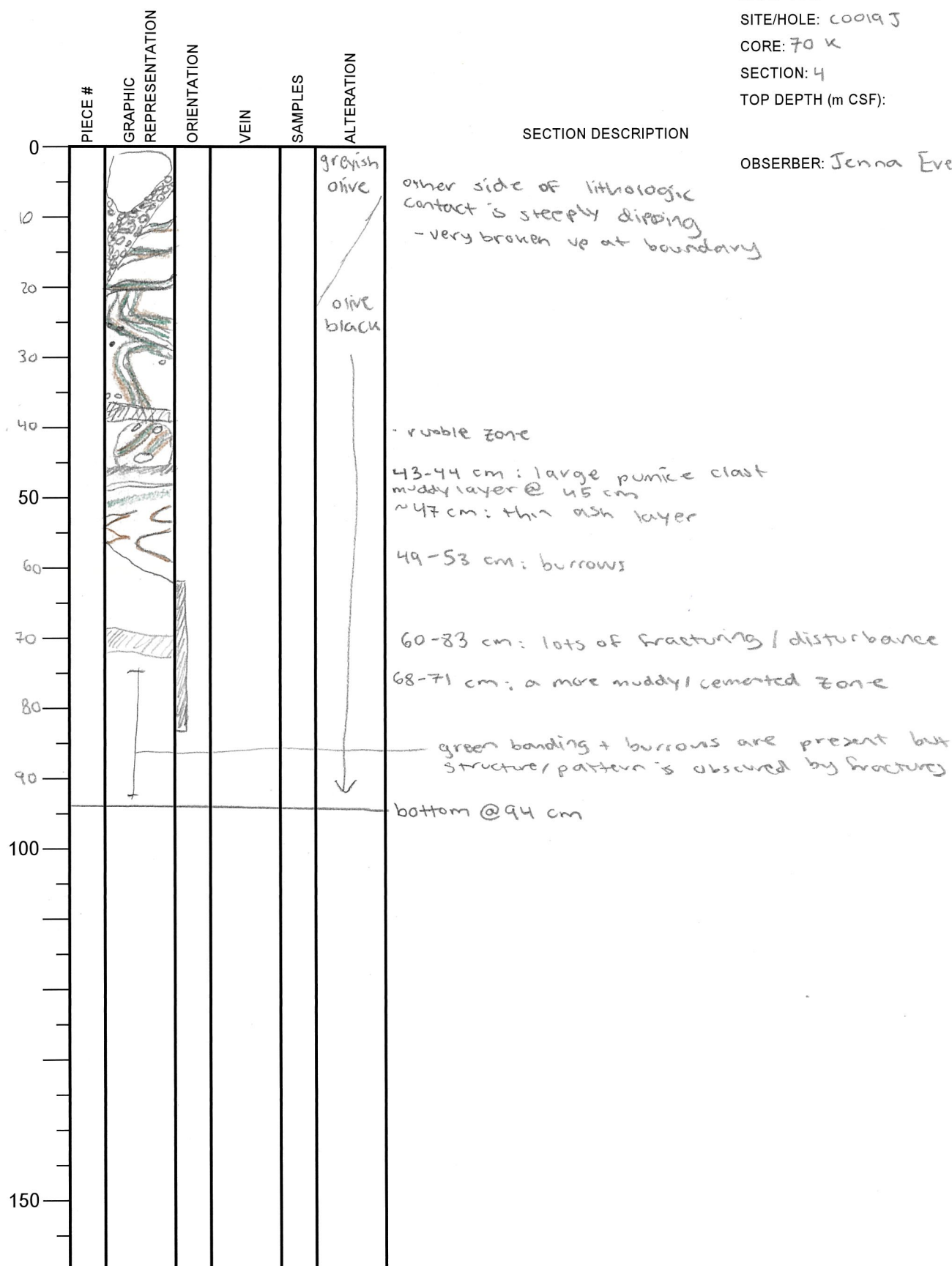
SITE/HOLE: C0019 J

CORE: 70 K

SECTION: 4

TOP DEPTH (m CSF):

OBSERVER: Jenna Everard

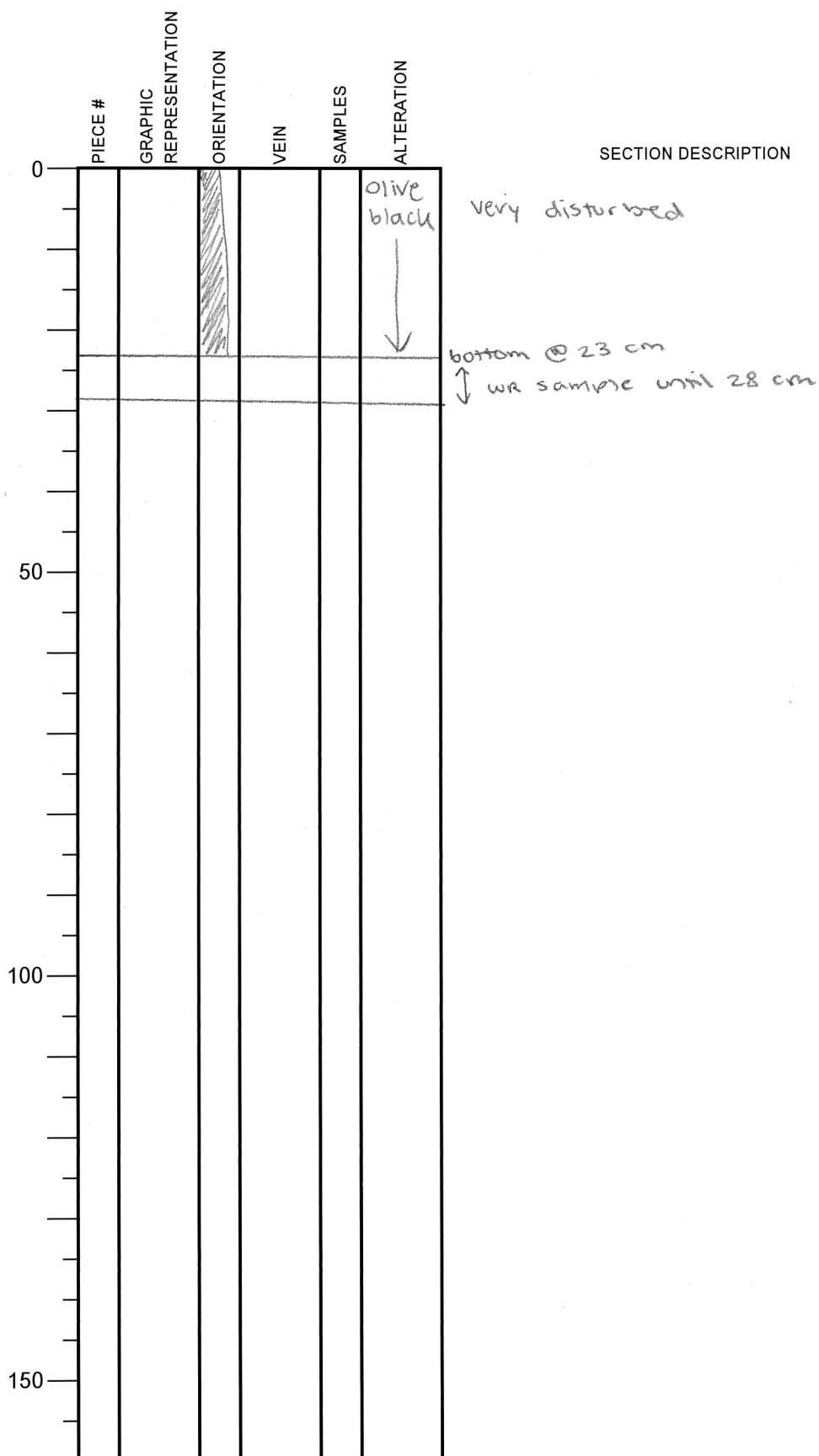


International Ocean Discovery Program

Visual Core Description - Hard Rock -

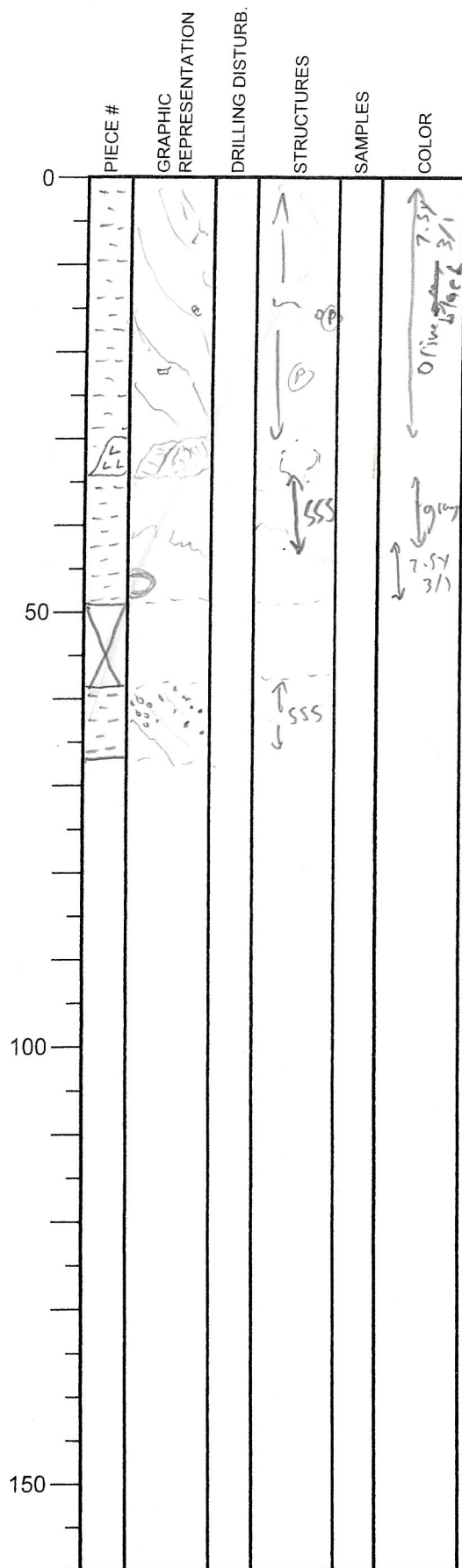
NO.
 DATE: 20/10/2024
 EXP.: 405
 SITE/HOLE: C0019 J
 CORE: 70 K
 SECTION: CC
 TOP DEPTH (m CSF):

OBSERVER: Jenna Everard



International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 20/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 71K
SECTION: 1
TOP DEPTH (m CSF):



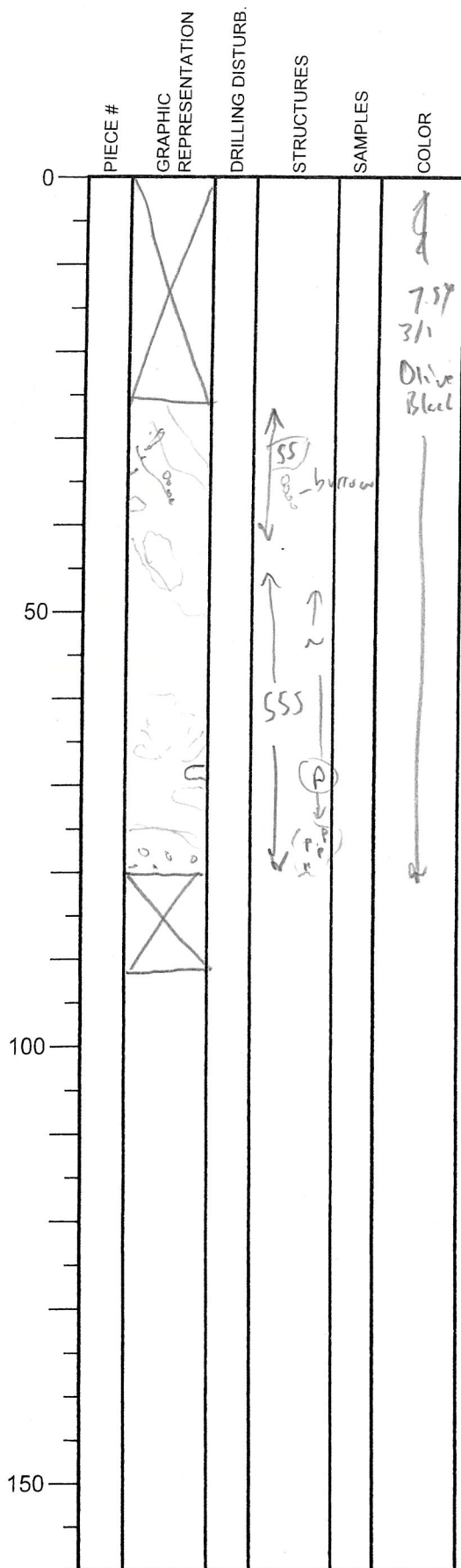
SECTION DESCRIPTION

OBSERVER: V. Nicholson

Olive-grey
mudstone with
convolute bedding
↳ slump

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 20/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 71K
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

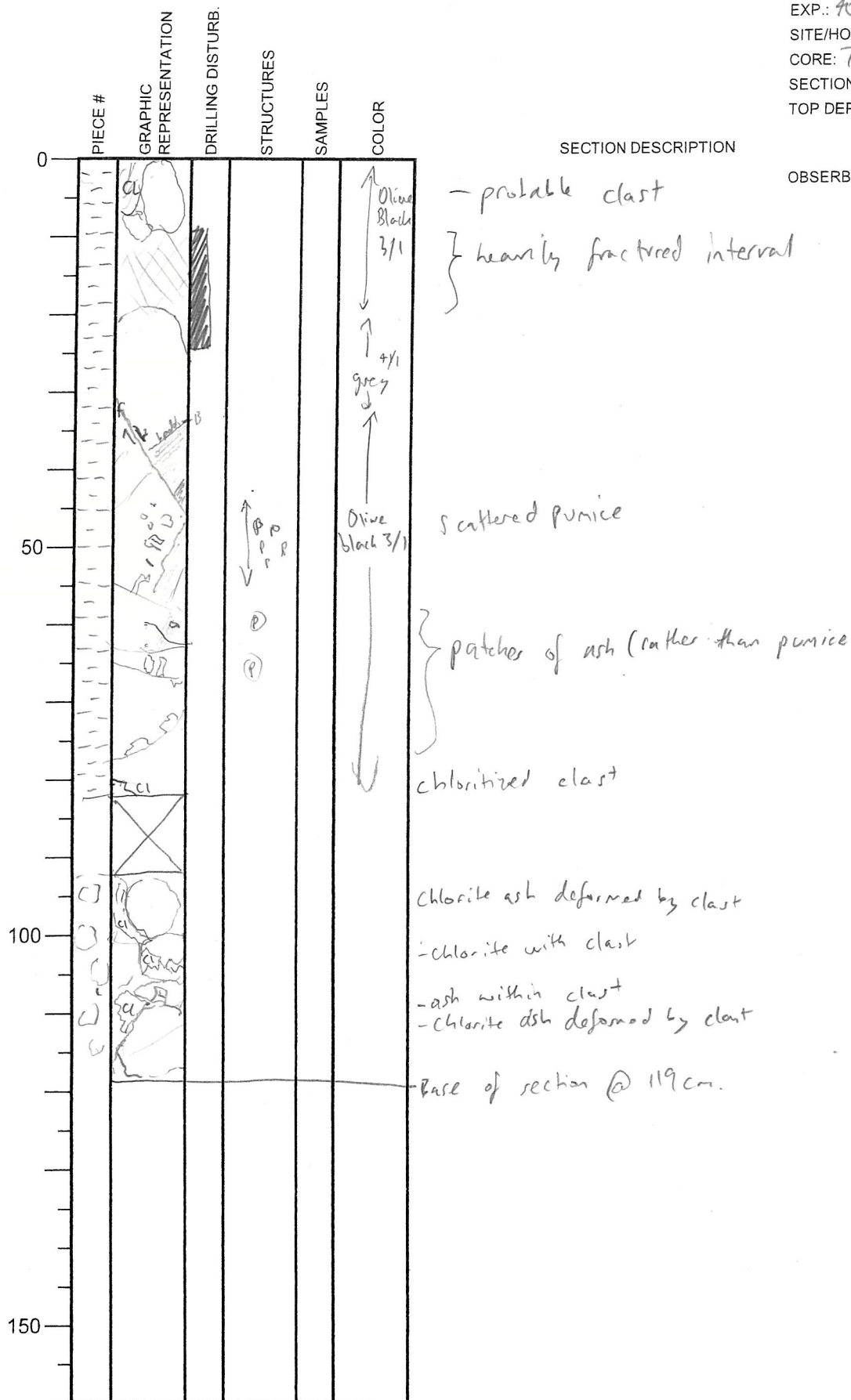
OBSERVER: U. Nicholson

Olive ~~grey~~ black mudstone
(with minor colours - grey, green-
gray, brown), intensely bioturbated
mostly overprints convolute
laminations

International Ocean Discovery Program

Visual Core Description

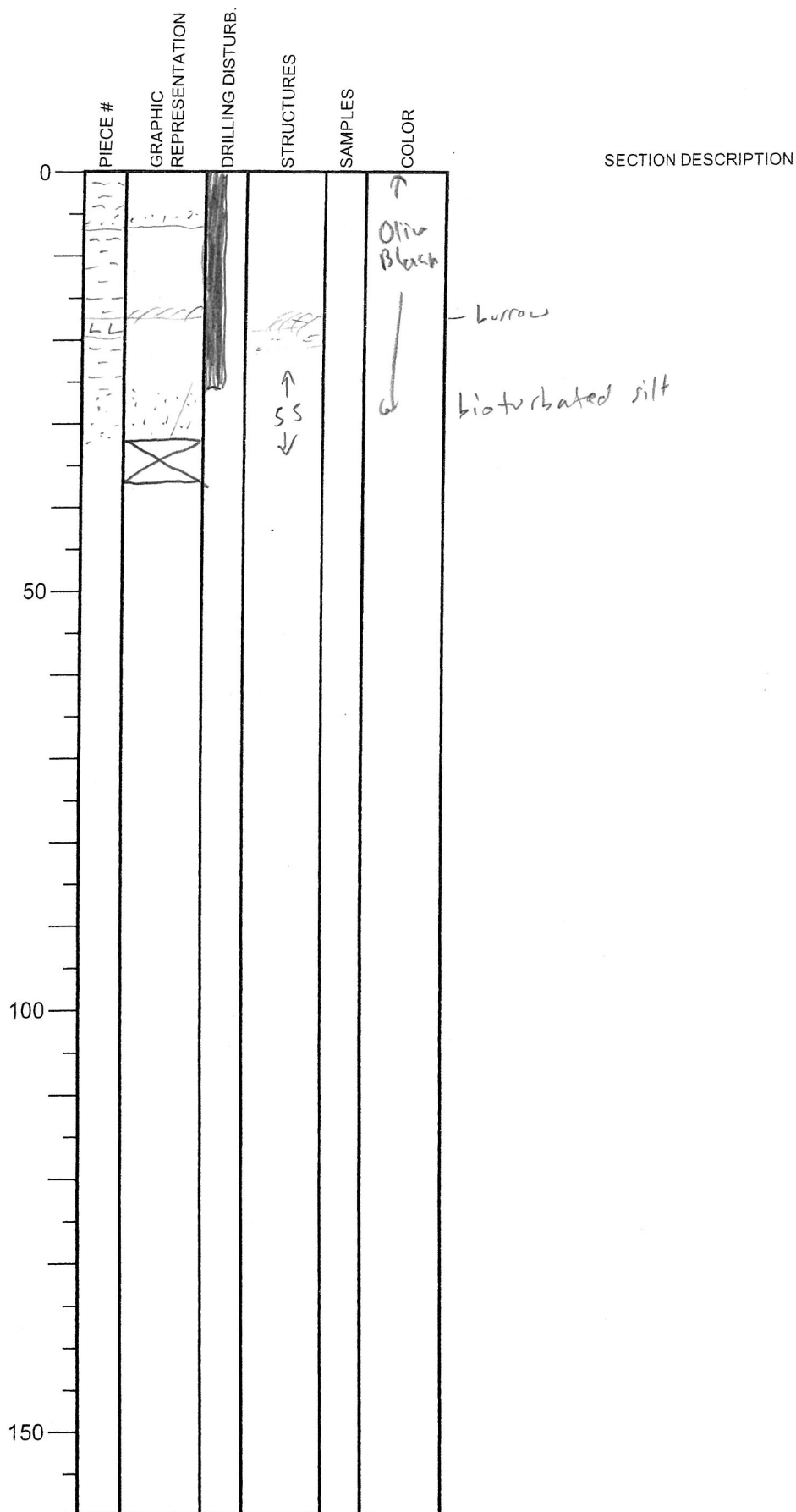
NO. 3
 DATE: 20/10/2029
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 716
 SECTION: 3
 TOP DEPTH (m CSF):



OBSERVER: U. Nicholson

International Ocean Discovery Program Visual Core Description

NO. 4
DATE: 20/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 71k
SECTION: CC
TOP DEPTH (m CSF):

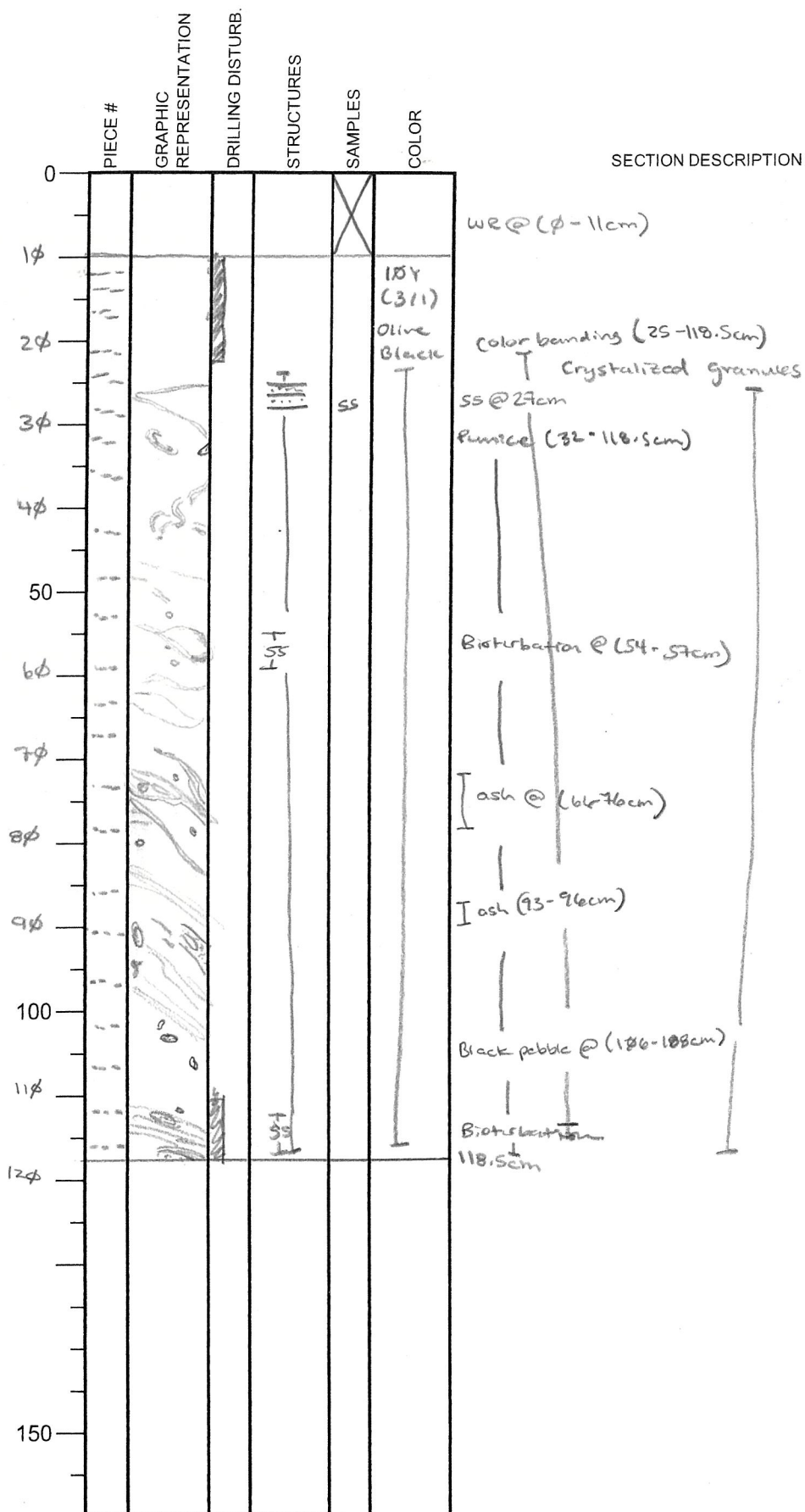


OBSERVER: U. Nicholson

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 21/10/20 24
 EXP.: 4 DS
 SITE/HOLE: C0019J
 CORE: 72 K
 SECTION: 1
 TOP DEPTH (m CSF):



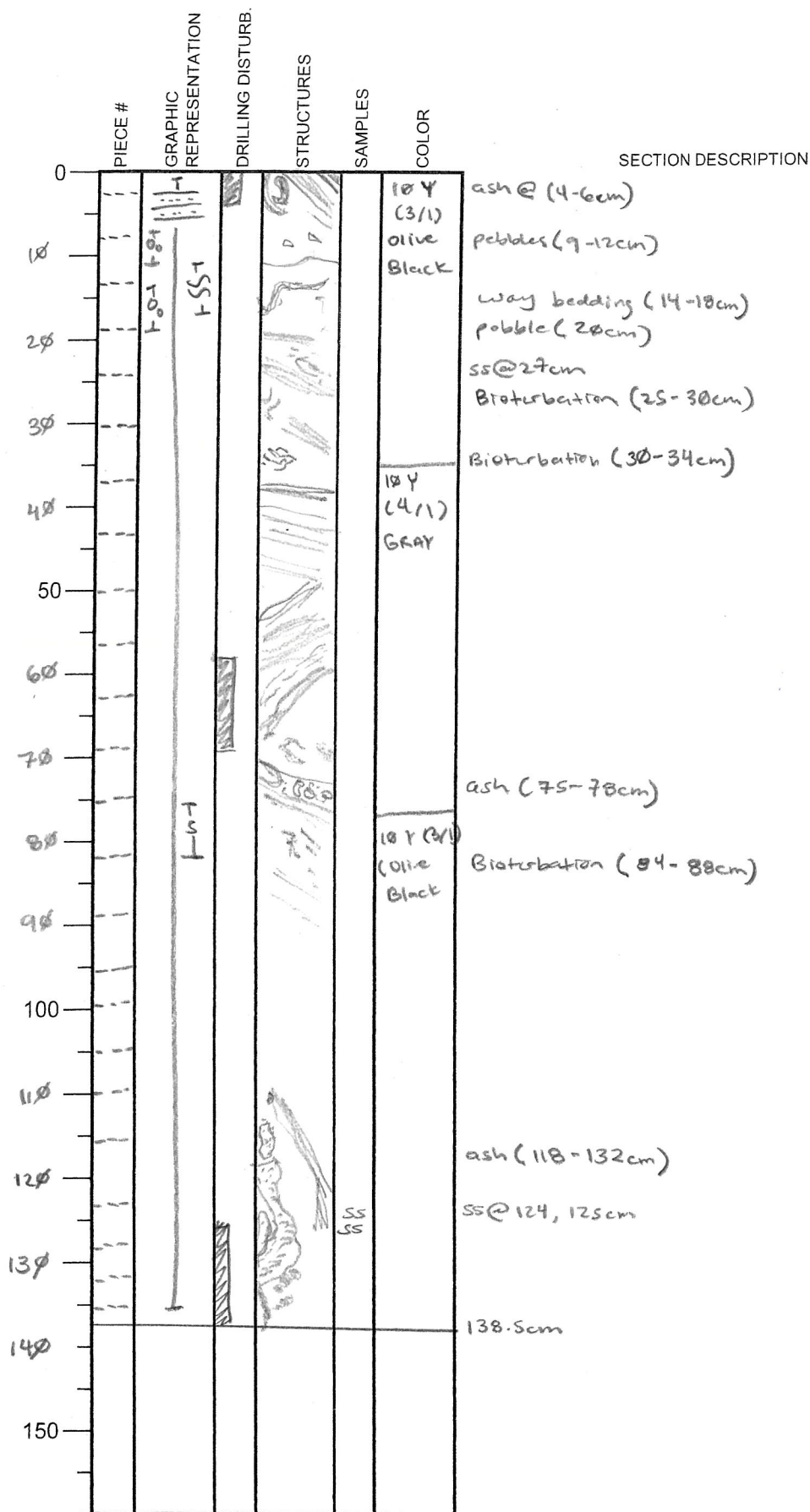
OBSERVER: René C

* Mudstone (Olive Black)
 with wavy/convolute
 black-green color banding,
 intermixed ash, crystallized
 granules, pumice, and bioturbation.
 * SS @ 27cm

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 21/10/2024
 EXP.: 405
 SITE/HOLE: C6019J
 CORE: 72K
 SECTION: 2
 TOP DEPTH (m CSF):



OBSERVER: René C
 *Olive Black - Gray mudstone, with ash intermixed, pebbles, color banding (green-black) wavy, bioturbation, and high angle bands.
 *SS @ 124, 125cm

International Ocean Discovery Program

Visual Core Description

NO. 3

DATE: 21 / 10 / 2024

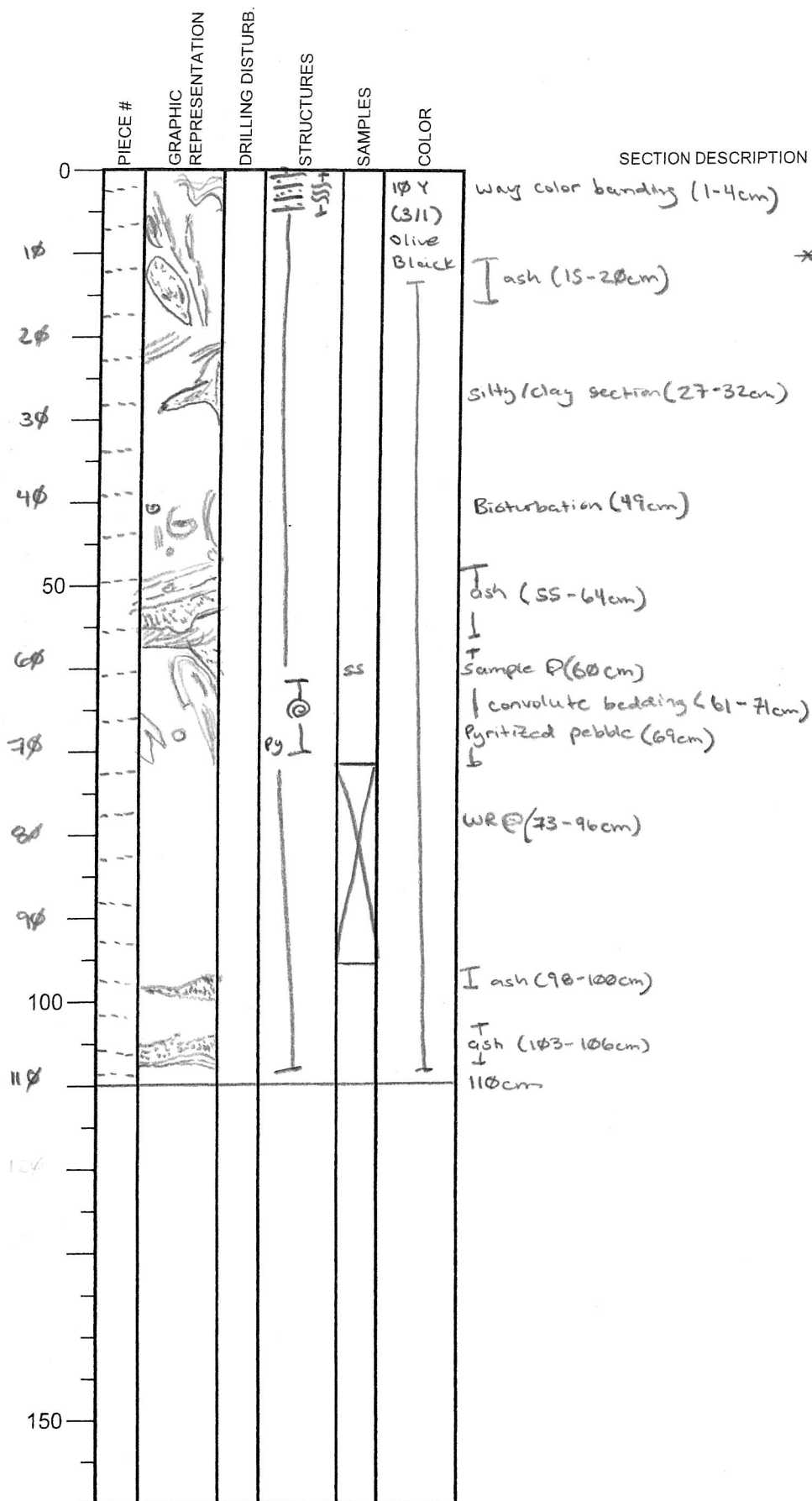
EXP.: 485

SITE/HOLE: C0019J

CORE: 42 K

SECTION: 3

TOP DEPTH (m CSF):

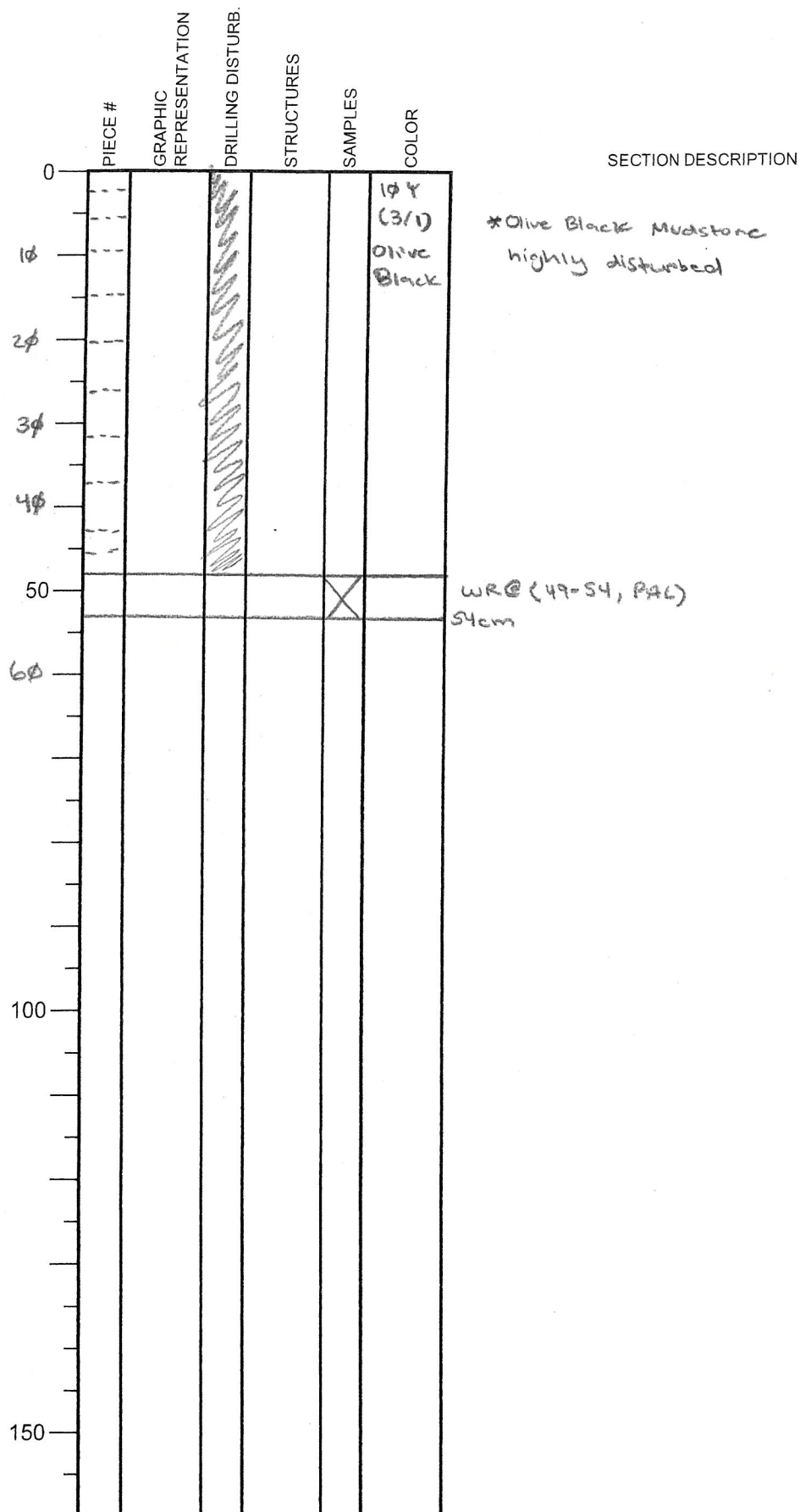


OBSERVER: René C

* Olive Black mudstone with green-black color banding, way banding, bioturbation, convolute bedding, intermixed ash, pumice, pebbles and clay.
* SS @ 59.5cm

International Ocean Discovery Program Visual Core Description

NO. 4
DATE: 21/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 72K
SECTION: CC
TOP DEPTH (m CSF):



OBSERVER: René C

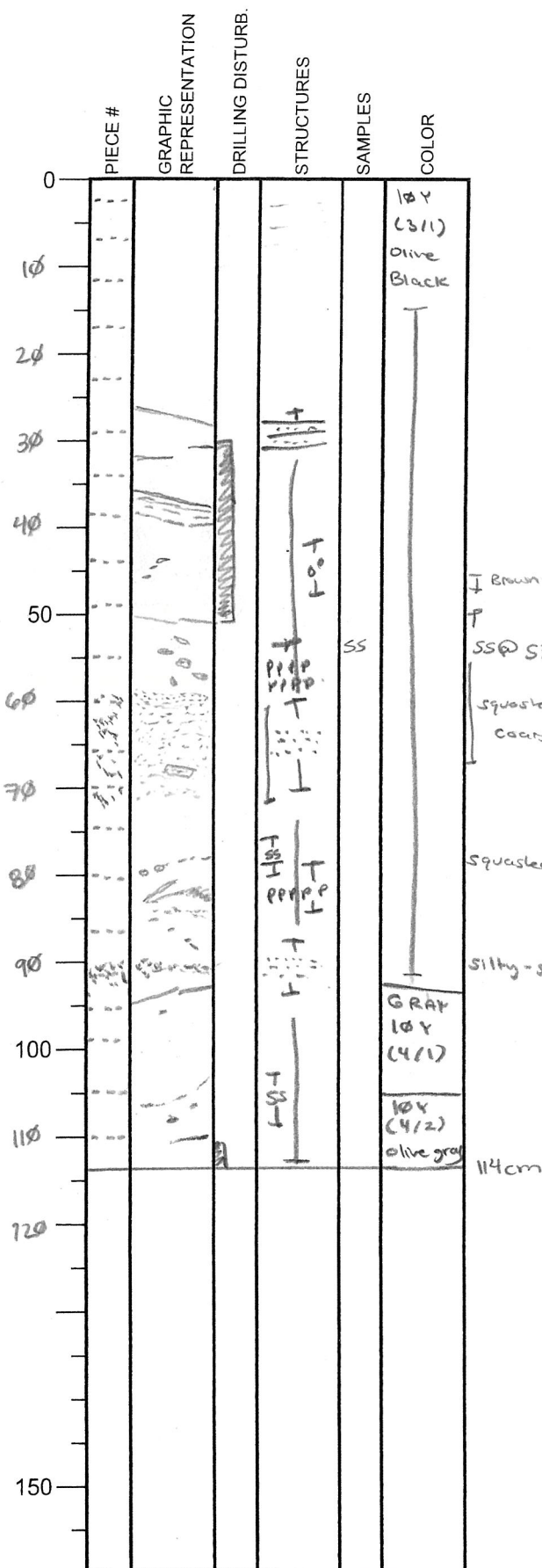
International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 21/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 73K
 SECTION: 1
 TOP DEPTH (m CSF):

SECTION DESCRIPTION

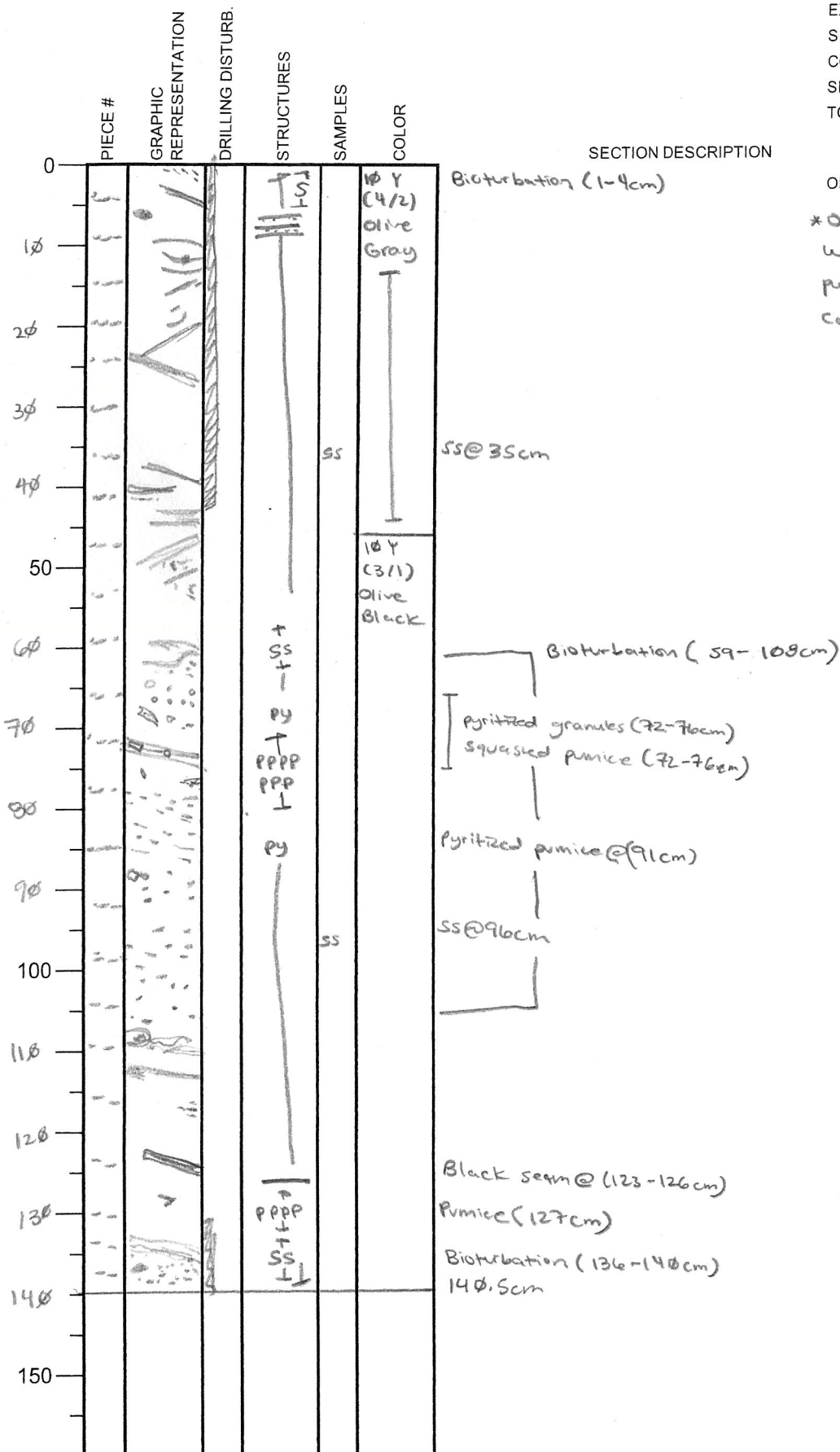
OBSERVER: René



International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 21/10/2024
 EXP.: 405
 SITE/HOLE: C09155
 CORE: 734
 SECTION: 2
 TOP DEPTH (m CSF):



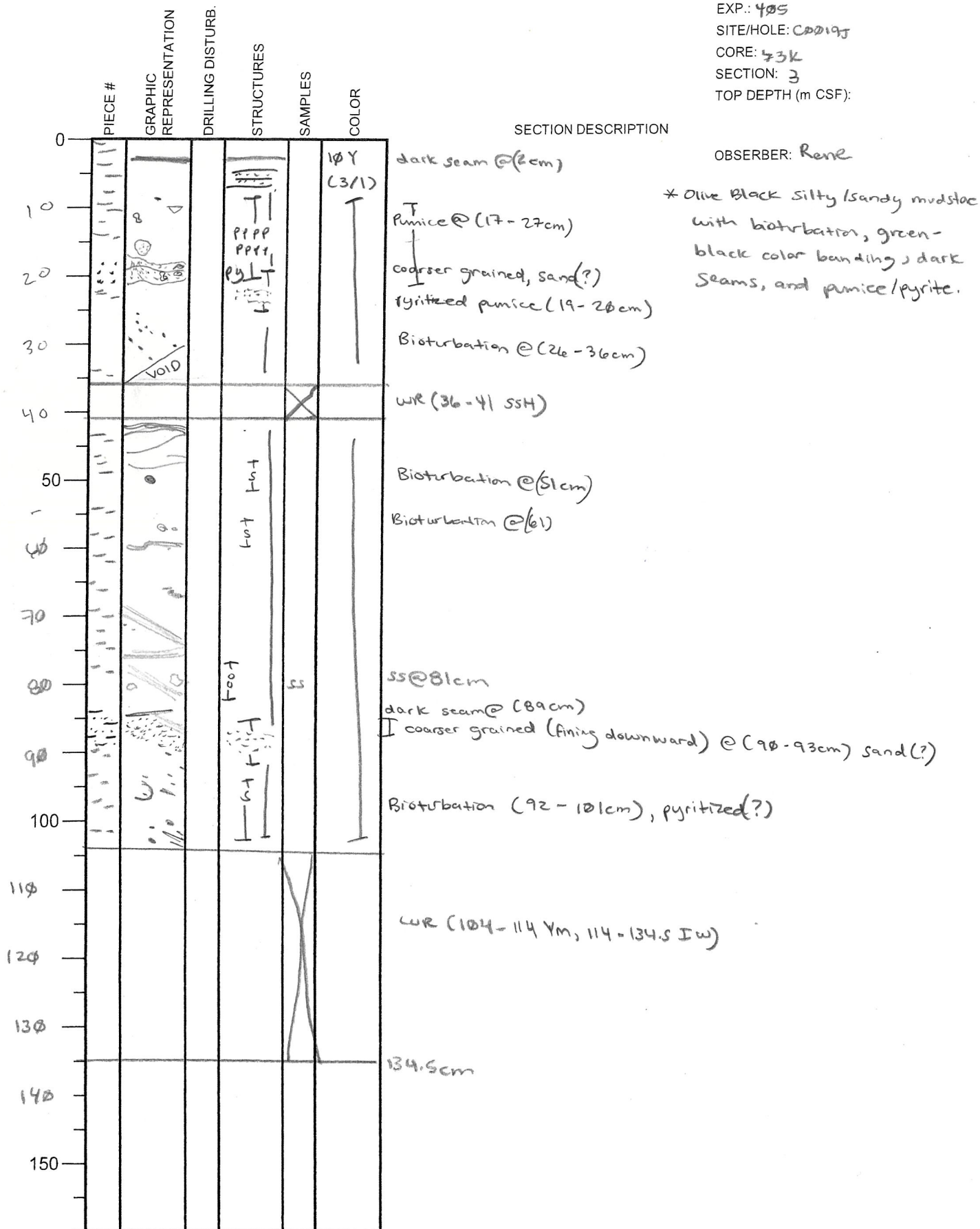
OBSERVER: Rene

* Olive gray-black mudstone with bioturbation, pyritized pumice, and green-black colorbanding/alterations

International Ocean Discovery Program

Visual Core Description

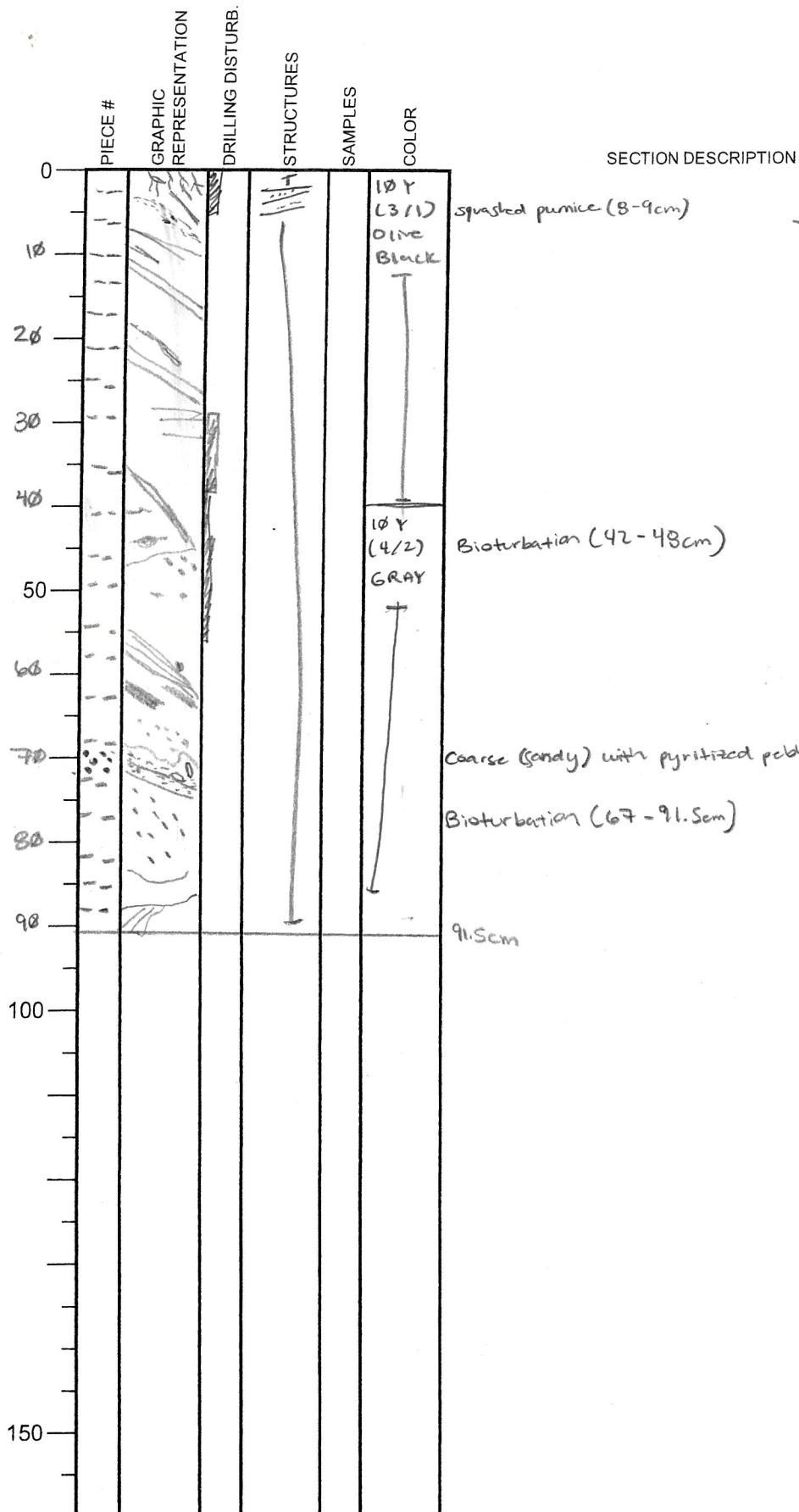
NO. 3
 DATE: 21/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 43K
 SECTION: 3
 TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 21/10/2024
 EXP.: 405
 SITE/HOLE: C00019J
 CORE: 73K
 SECTION: 4
 TOP DEPTH (m CSF):

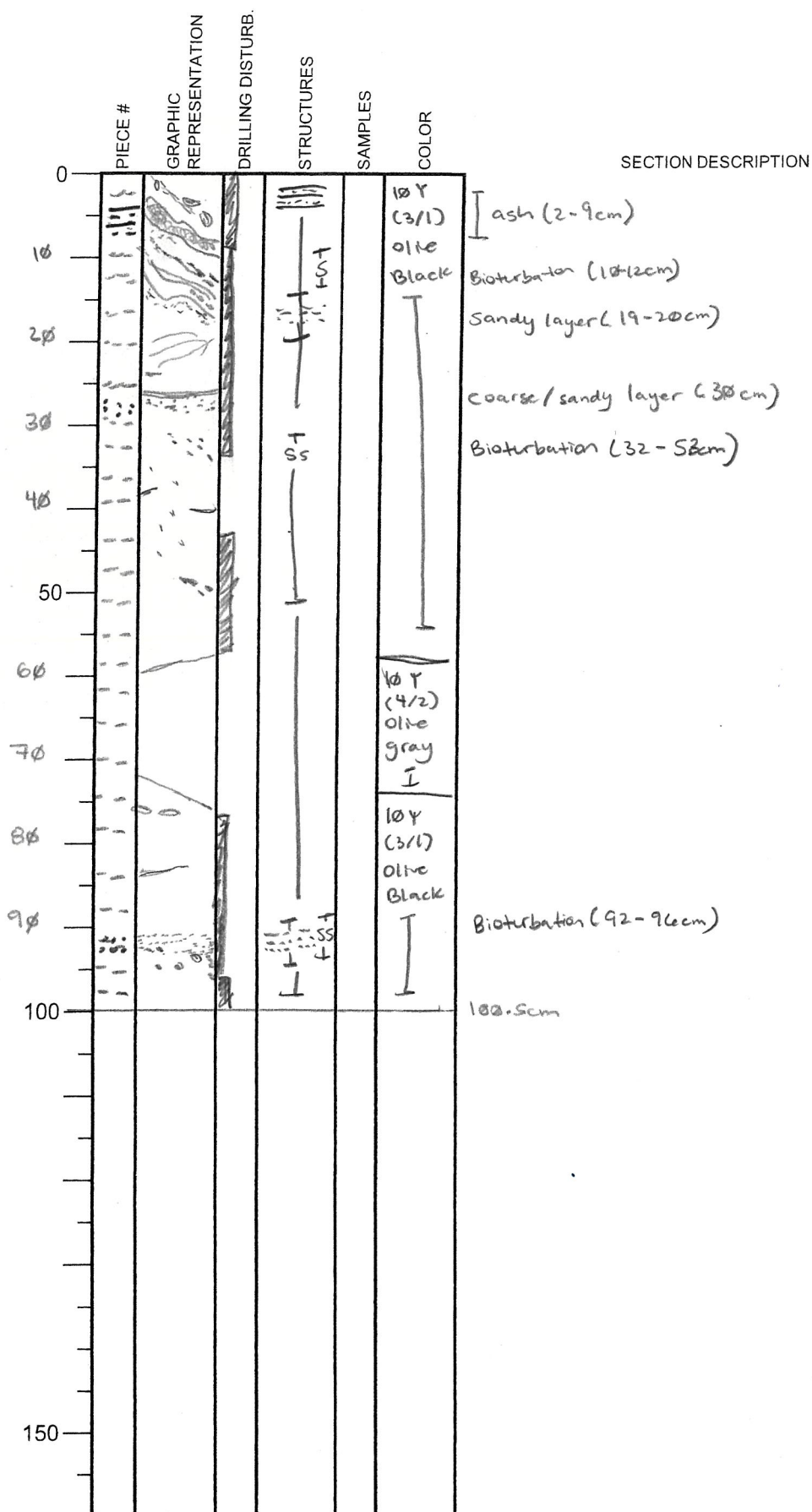


OBSERVER: René

* Olive black-gray silty/sandy mudstone, bioturbation, green-black color-banding, pumice/pyritized pebbles.

International Ocean Discovery Program Visual Core Description

NO. 5
DATE: 21/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 73L
SECTION: S
TOP DEPTH (m CSF):

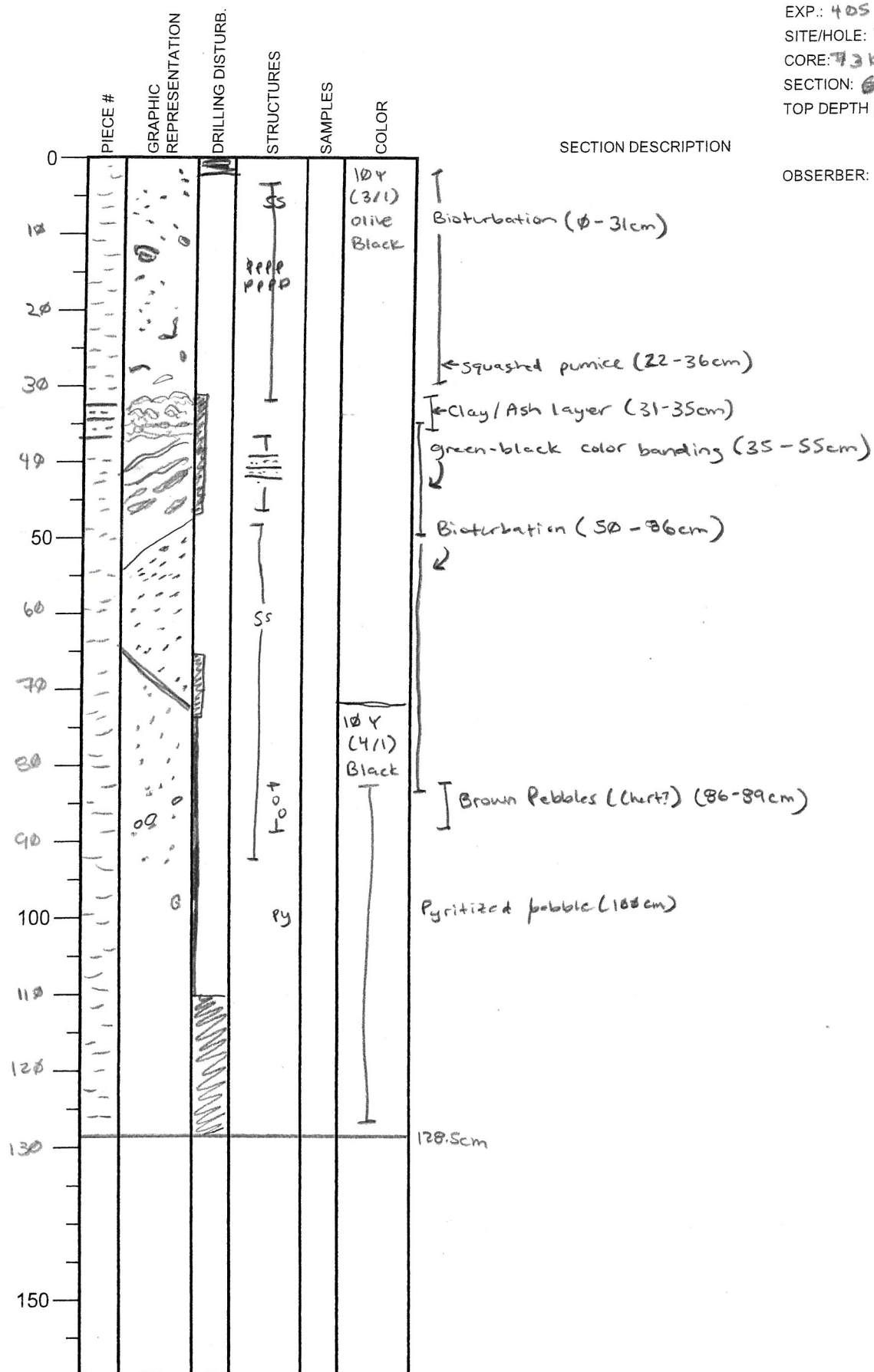


OBSERVER: Rene

Olive Black-gray sandy/silty
mudstone, bioturbated, inter-
mixed ash, green-black
color banding

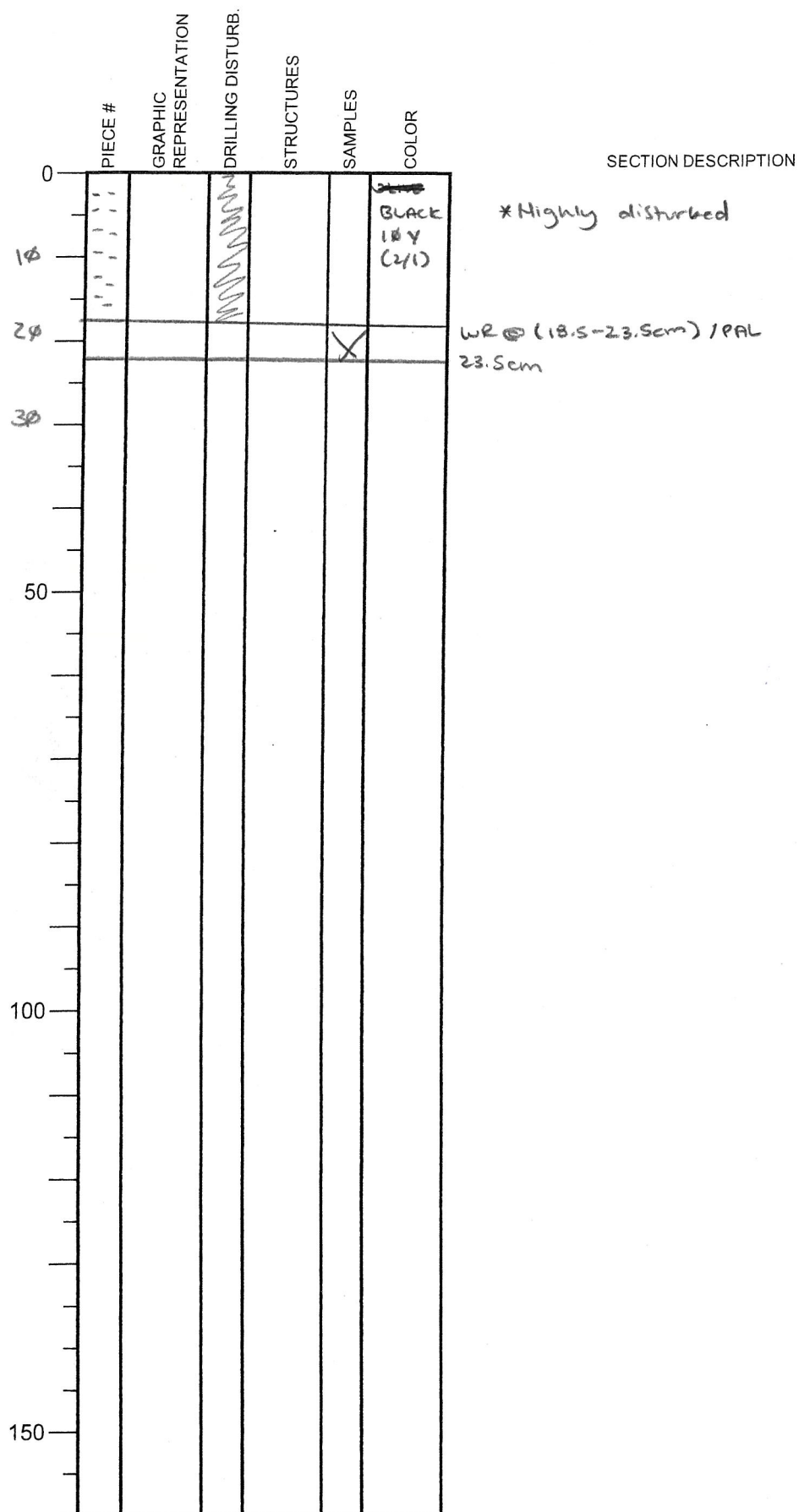
International Ocean Discovery Program Visual Core Description

NO. 6
DATE: 21/10/20 24
EXP.: 405
SITE/HOLE: C0019T
CORE: 73K
SECTION: 6
TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

NO. 7
DATE: 21/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 73k
SECTION: CC
TOP DEPTH (m CSF):



OBSERVER: René

International Ocean Discovery Program

Visual Core Description

NO. 1

DATE: 21/10/2024

EXP.: 405

SITE/HOLE: C0019J

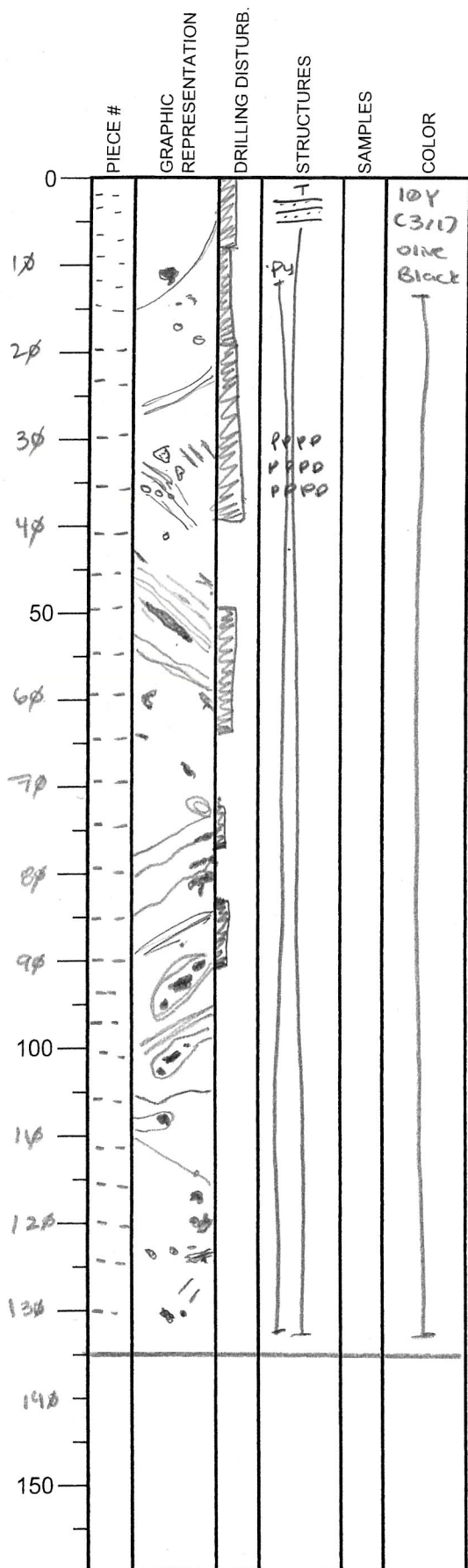
CORE: 74K

SECTION: 1

TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: René C.

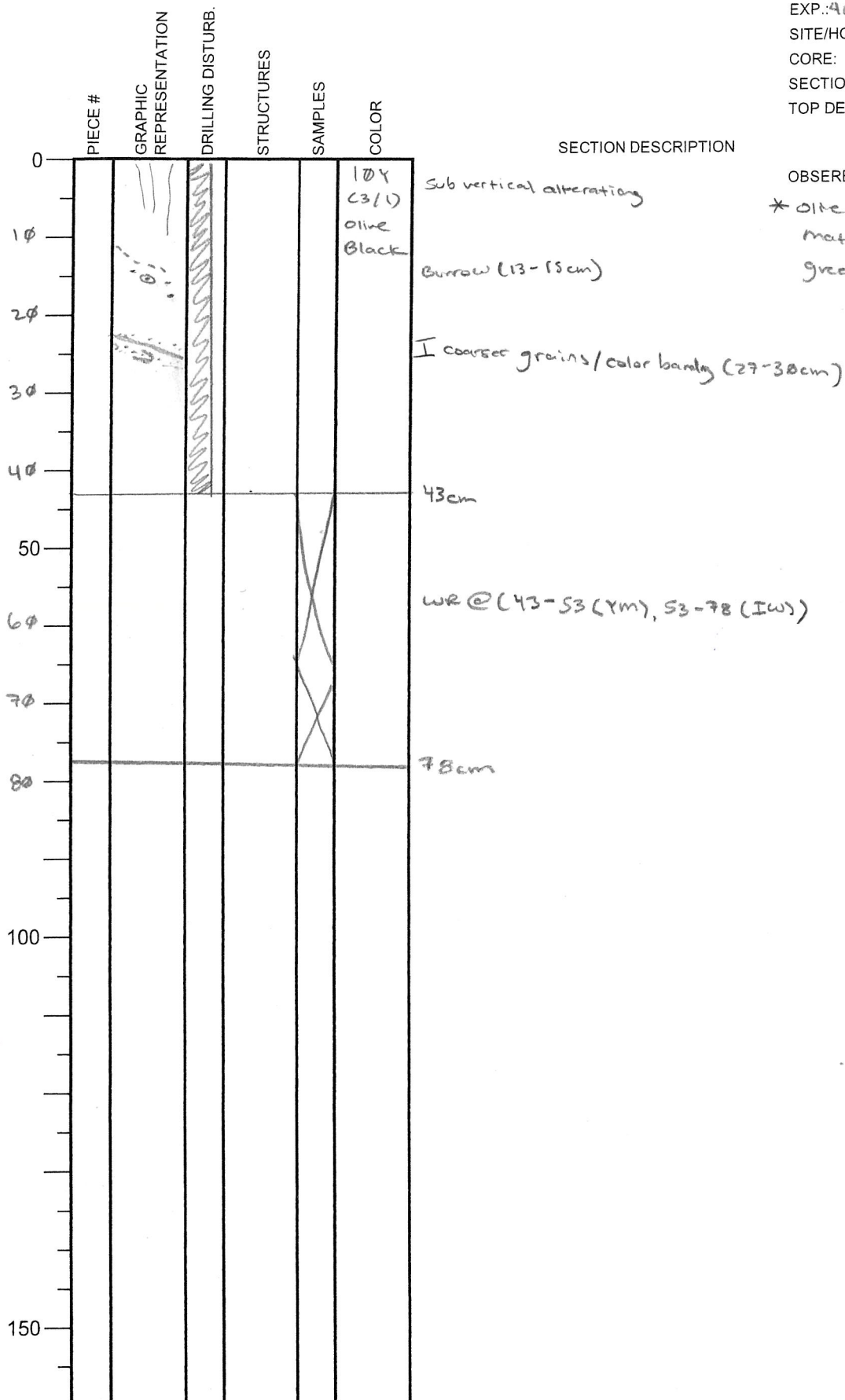


* Olive Black mudstone material with green-black color banding/alterations, pyritizing pumice clasts, bioturbation patches.

International Ocean Discovery Program

Visual Core Description

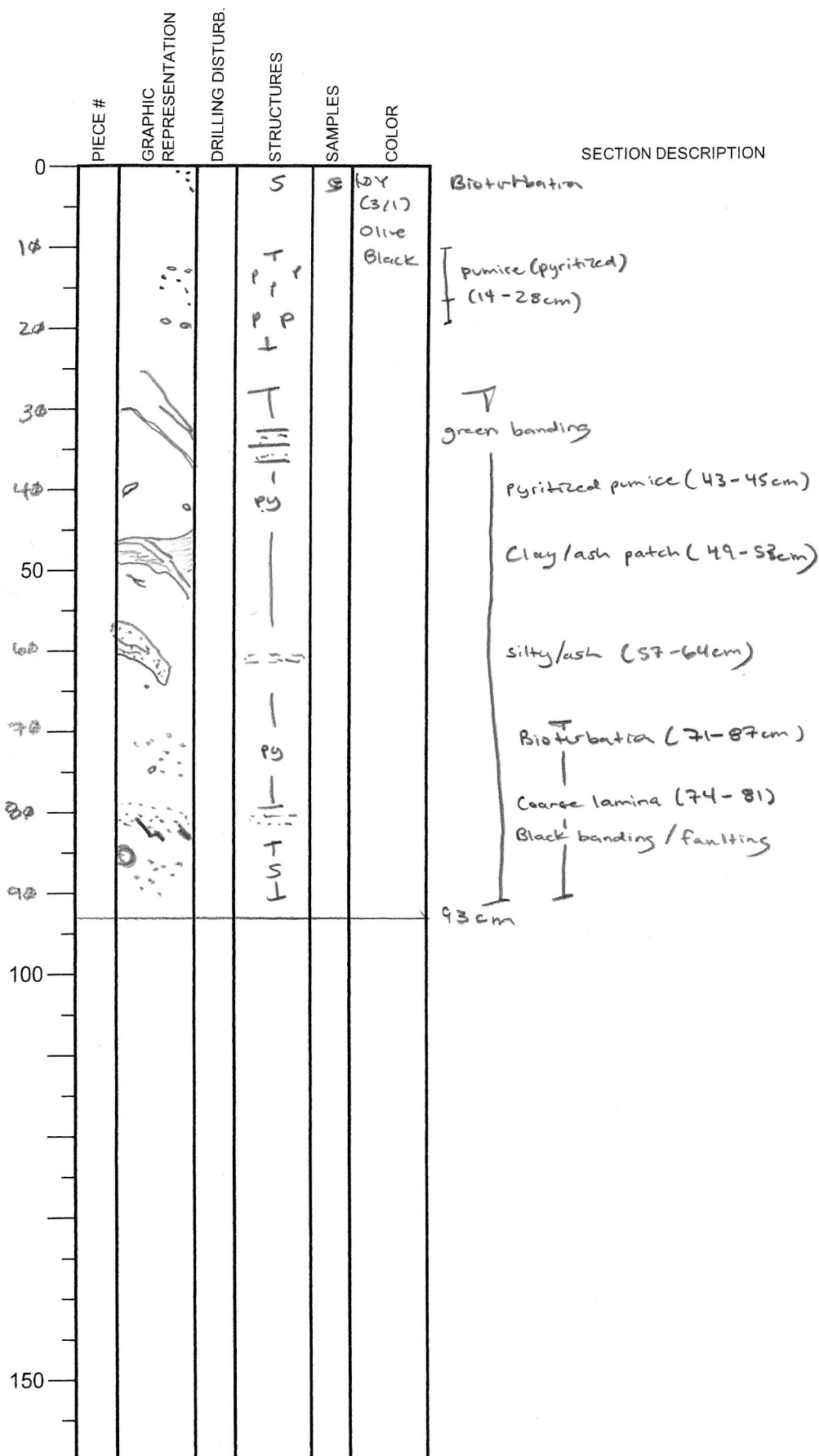
NO. 2
 DATE: 21 / 10 / 2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 74K
 SECTION: 2
 TOP DEPTH (m CSF):



OBSERVER: René C.
 * olive Black mudstone material with burrows, green-black banding

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 21/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 74K
SECTION: 3
TOP DEPTH (m CSF):

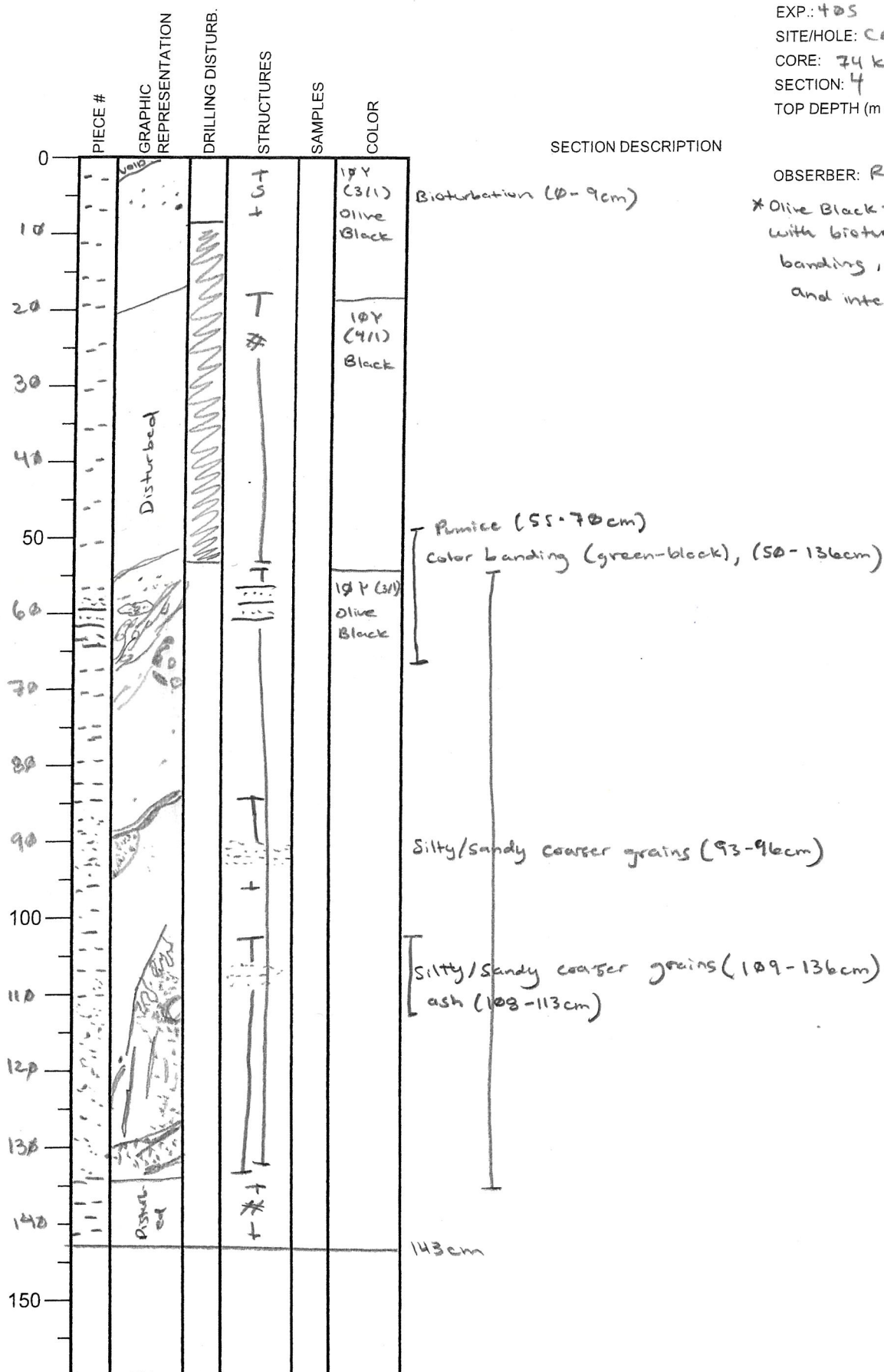


OBSERVER: René C.

*Olive Black mudstone material with clay/ash patches, silty-sand coarse laminae, green-black banding, scattered pumice (pyritized)

International Ocean Discovery Program Visual Core Description

NO. 4
DATE: 21/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 74 k
SECTION: 4
TOP DEPTH (m CSF):



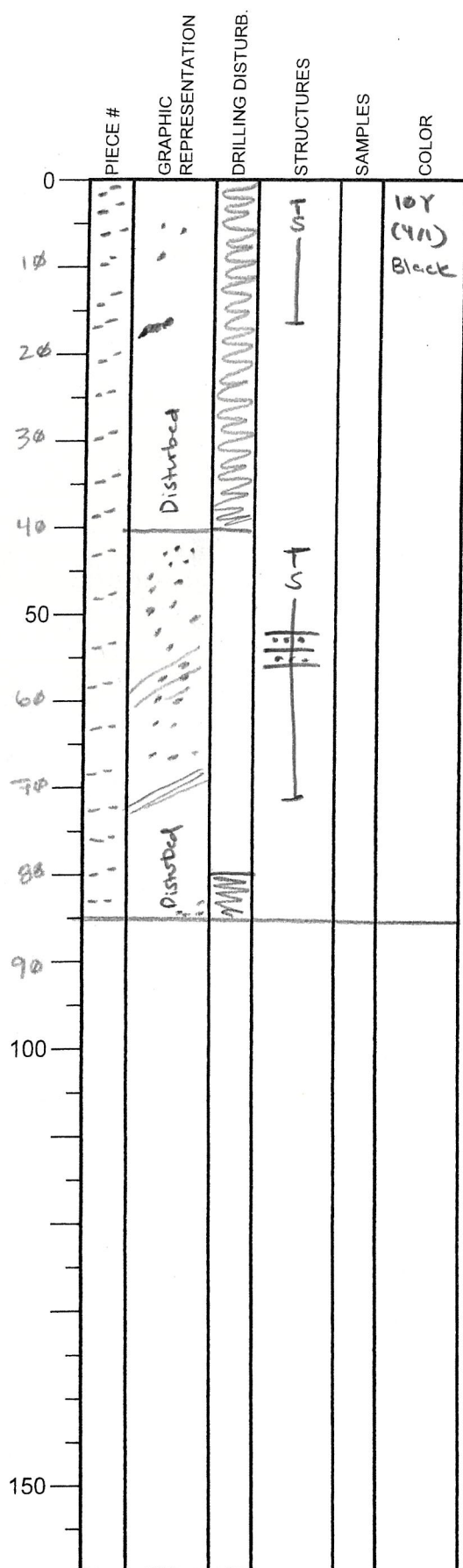
OBSERVER: René C

* Olive Black - Black mudstone, with bioturbation, color banding, coarse lamina, and intermixed pumice

International Ocean Discovery Program

Visual Core Description

NO. 5
 DATE: 21/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 74K
 SECTION: 5
 TOP DEPTH (m CSF):

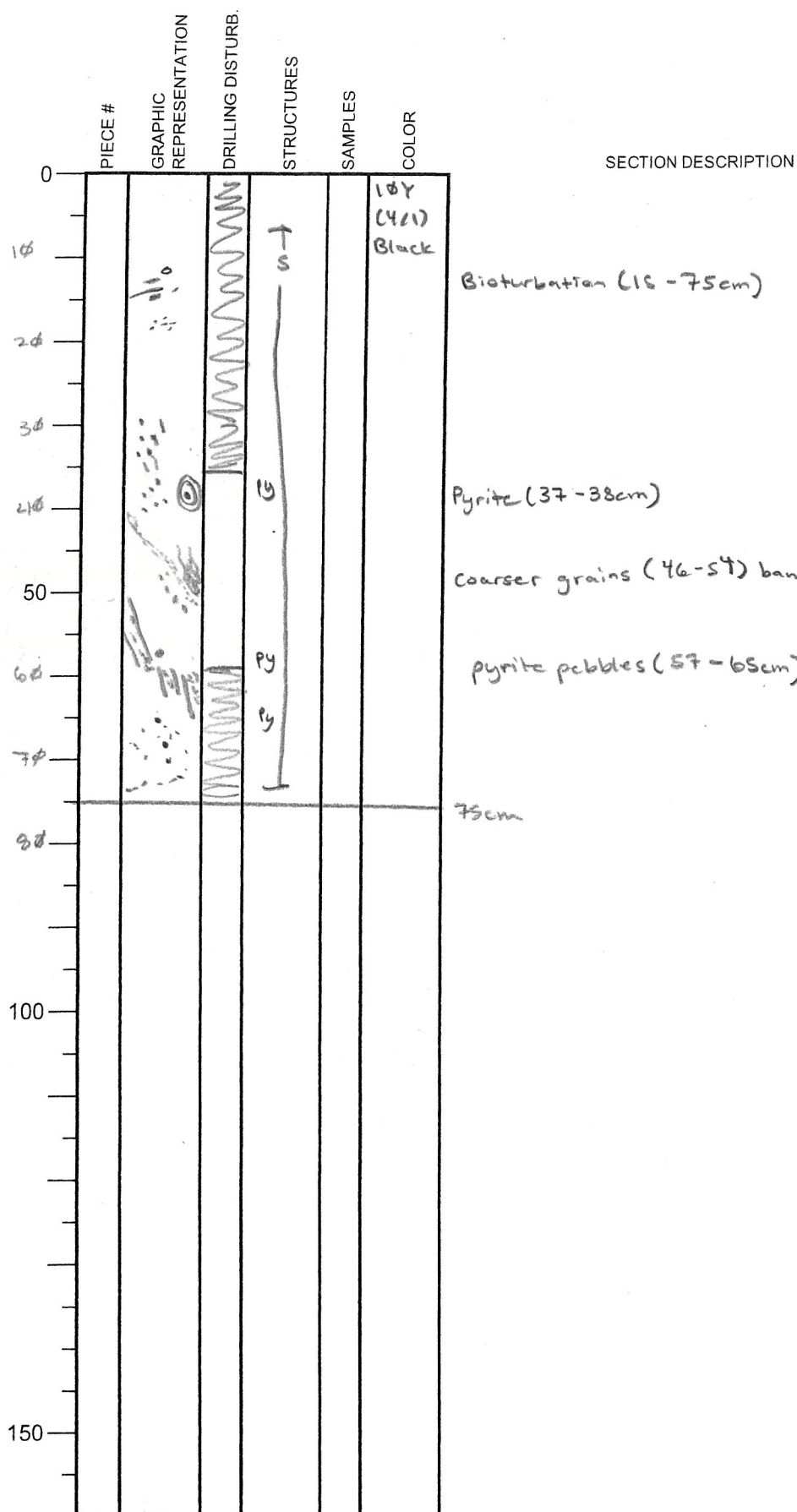


OBSERVER: René Castillo

* Black mudstone with bioturbation/color banding.

International Ocean Discovery Program Visual Core Description

NO. 6
DATE: 20/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 74K
SECTION: 6
TOP DEPTH (m CSF):

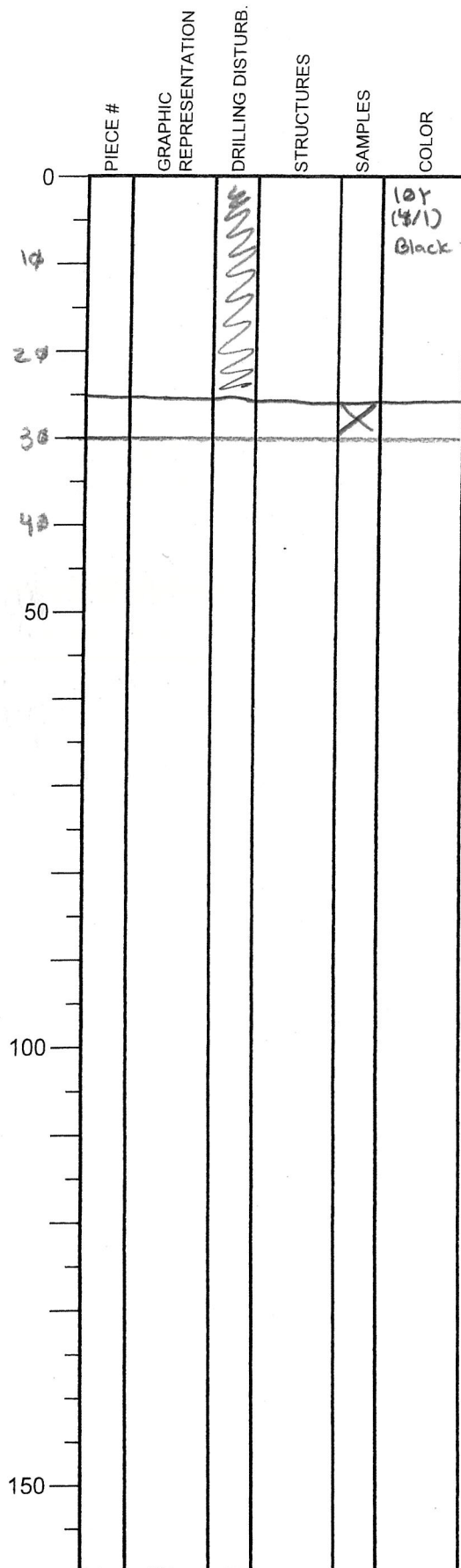


OBSERVER: René Castillo

* Black mudstone
with bioturbation,
pyritized pebbles,
coarse lamina.

International Ocean Discovery Program Visual Core Description

NO. 7
DATE: 21/10/2024
EXP.: 405
SITE/HOLE: C0219J
CORE: 74K
SECTION: CC
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: René C

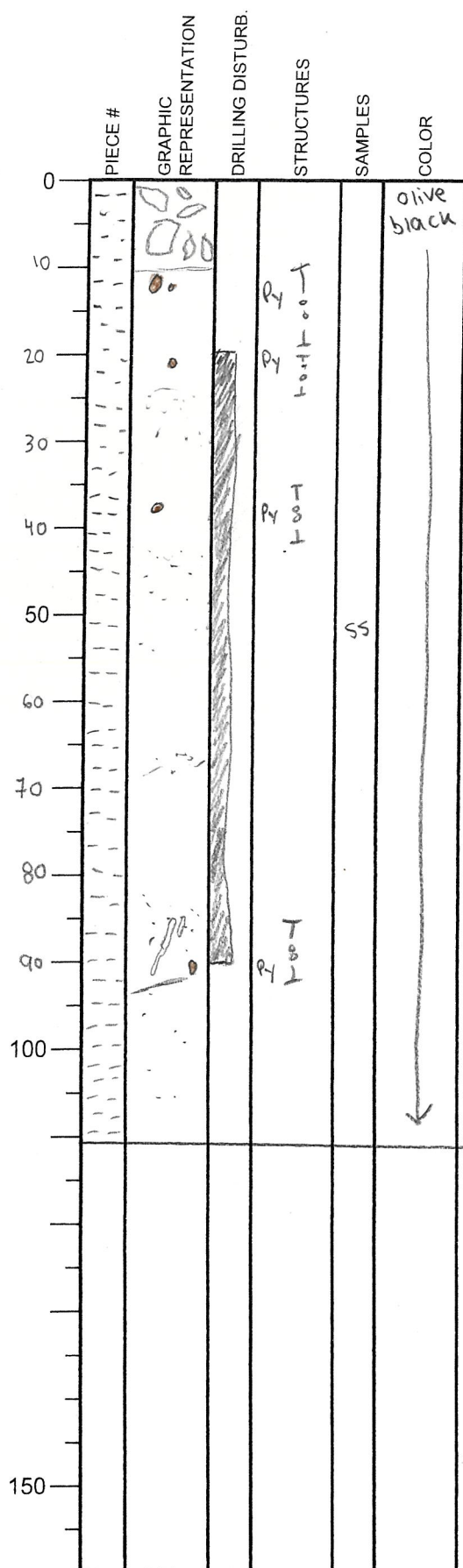
*Highly disturbed
black mudstone

WR @ (25-30cm, PAL)
30

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 21/10/2024
EXP.: 405
SITE/HOLE: C0019 J
CORE: 75 K
SECTION: 1
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Jenna Everard

0-10 cm: not intact, just loose clasts

dark to light brown / tan clasts scattered throughout
→ T80 → SS taken in section 2

overall very broken - surface characteristics obscured

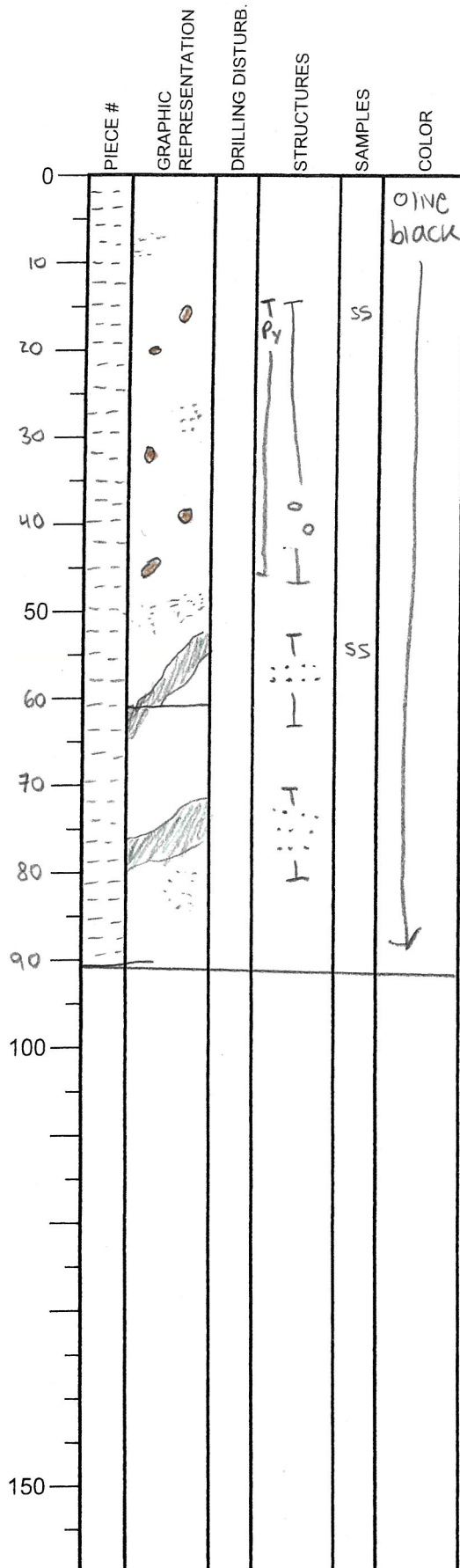
- dark brown = pyritized or just pyrite

possible bioturbation

bottom @ 111 cm

International Ocean Discovery Program Visual Core Description

NO.
DATE: 21/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 75K
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Jenna Everard

NO.
DATE: 21/10/2024
EXP.: 405
SITE/HOLE: C00193
CORE: 75 K
SECTION: CC
TOP DEPTH (m CSF):

[illegible]

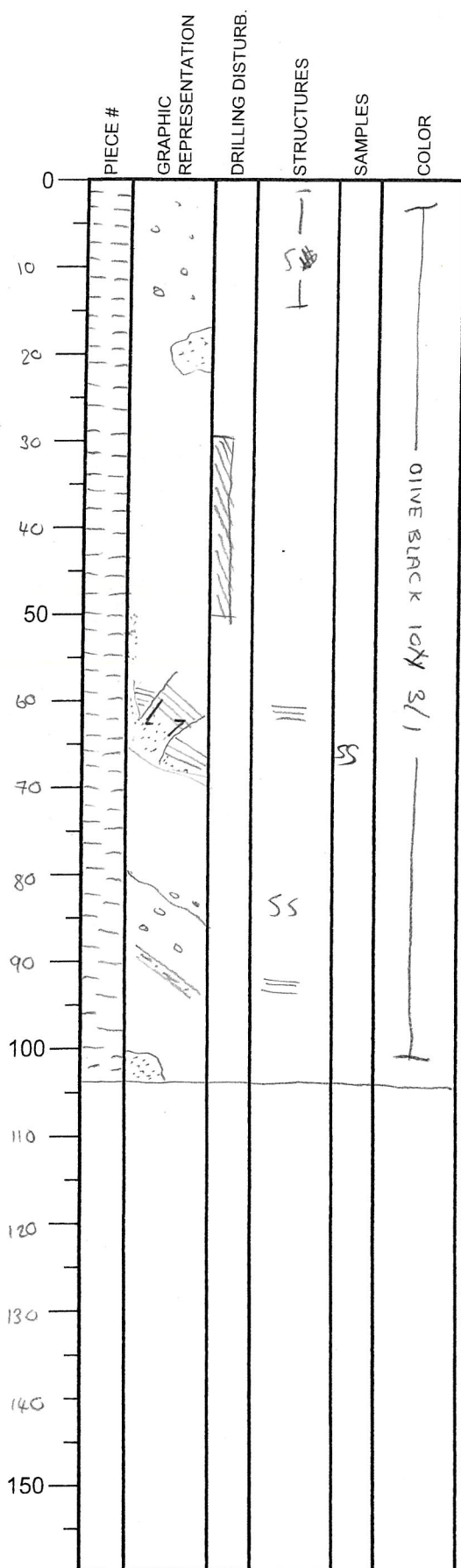
SECTION DESCRIPTION

very disturbed
bottom @ 8 cm
WR to 1.25 cm

OBSERVER: Jen
mainly just
broken chunks

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 22/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 76
SECTION: 1
TOP DEPTH (m CSF): 792m



SECTION DESCRIPTION

OBSERVER: Amy

lighter grey green patch - heavily fractured

too heavily fractured to see structures

edge of one of the siltstones

laminations → with siltstone at base

small burrows
very mild colour change from lighter to darker

higher angle silt laminae

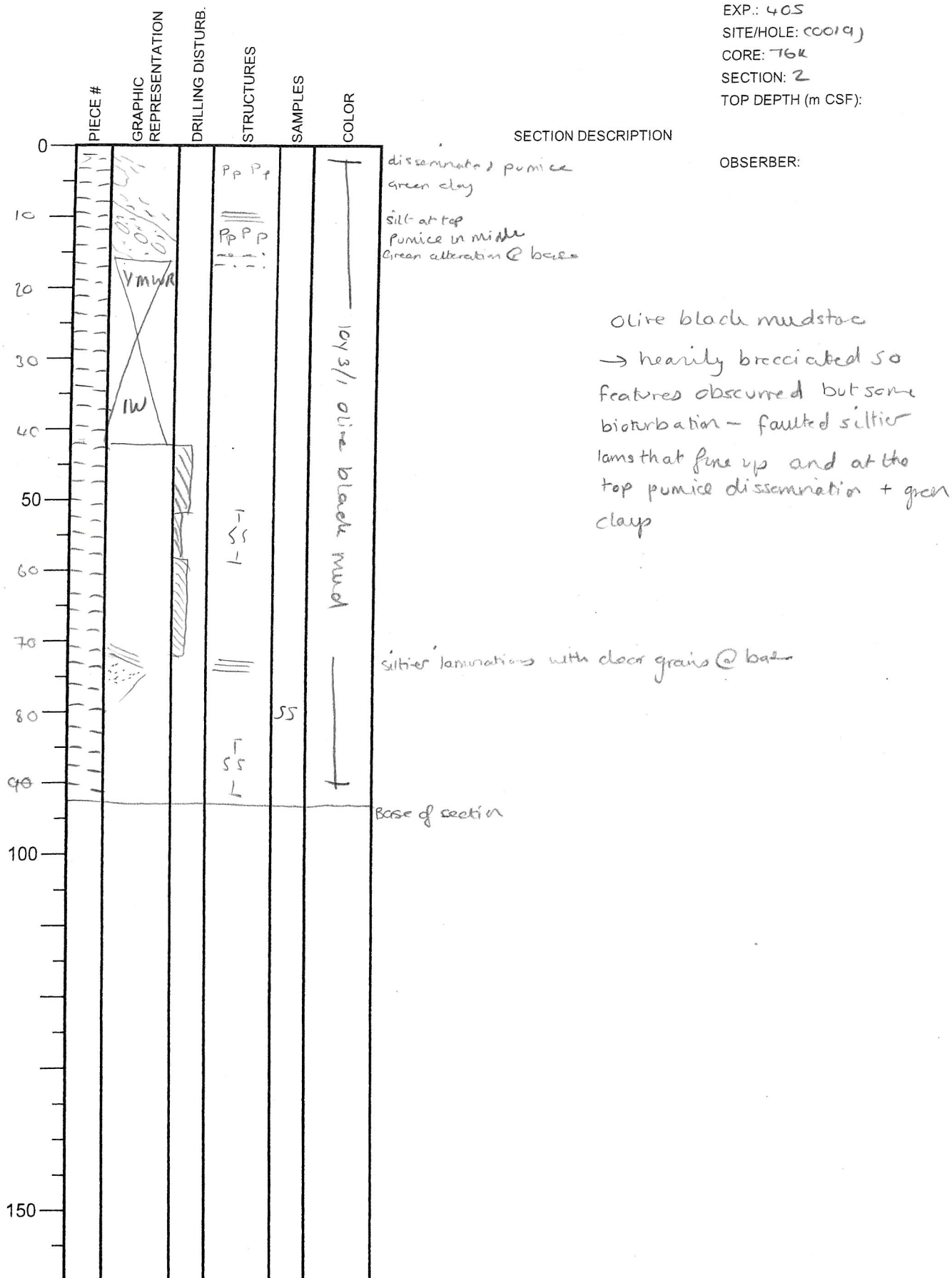
slightly coarser dark patch
Base of Section

olive black mudstone w/ faulted
patches of silt w/ laminations
at the top
+ some mild to moderate
bioturbation

International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 27/10/2024
 EXP.: 405
 SITE/HOLE: C00191
 CORE: 764
 SECTION: 2
 TOP DEPTH (m CSF):

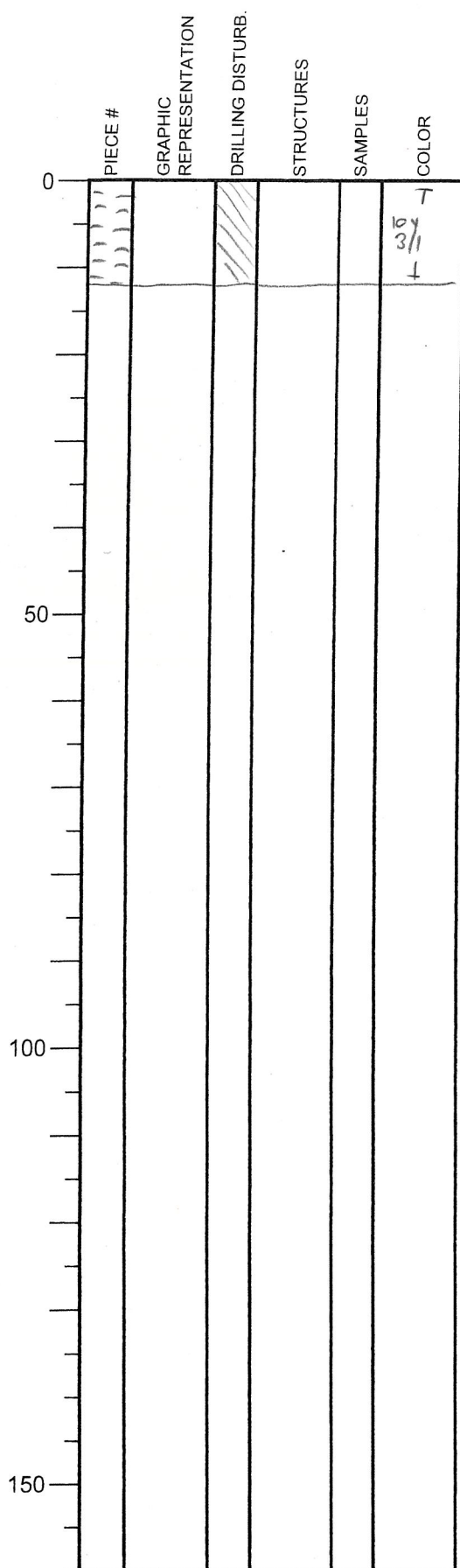


OBSERVER:

NO. 3
DATE: 22/10/2024
EXP.: 405
SITE/HOLE: C00194
CORE: 76k
SECTION: CC
TOP DEPTH (m CSF): 792

SECTION DESCRIPTION

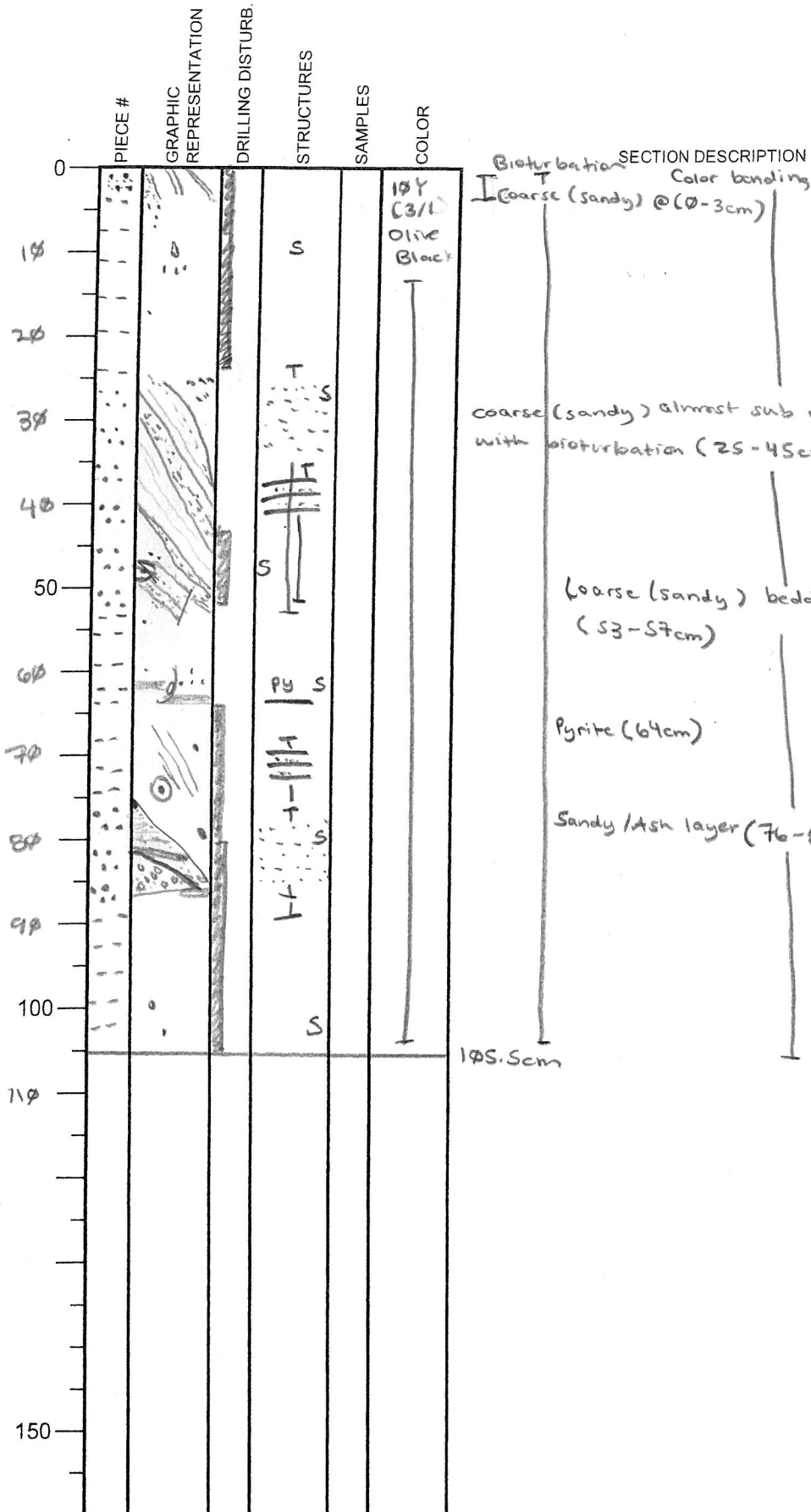
Olive black mudstone
heavily disturbed
Base of section



International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 22/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 77K
 SECTION: 1
 TOP DEPTH (m CSF):

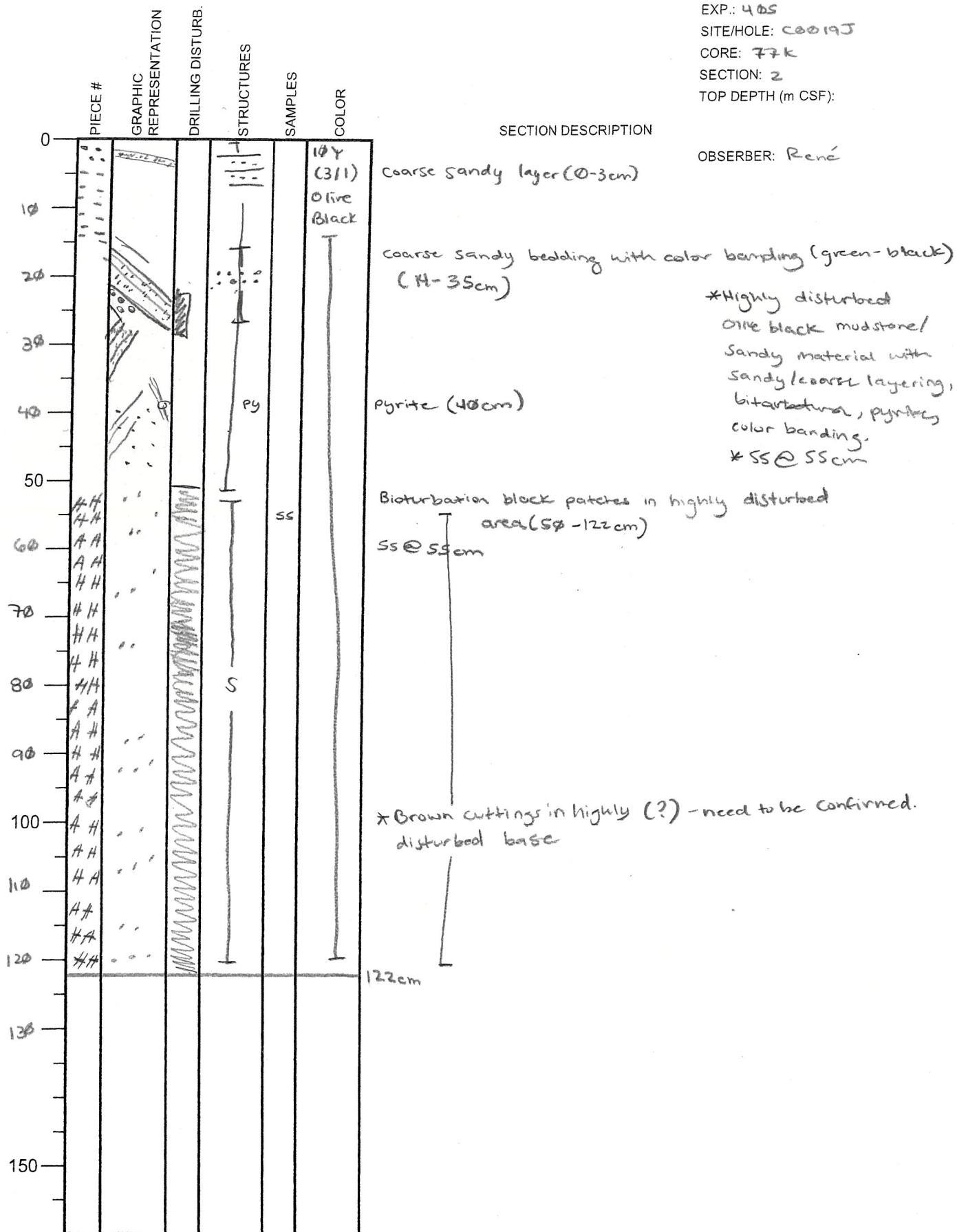


OBSERVER: Rencé
 * Olive Black mudstone material slightly bioturbated, sandy/coarse bedding, and black-green color banding with inter mixed ash/pyrite.

International Ocean Discovery Program

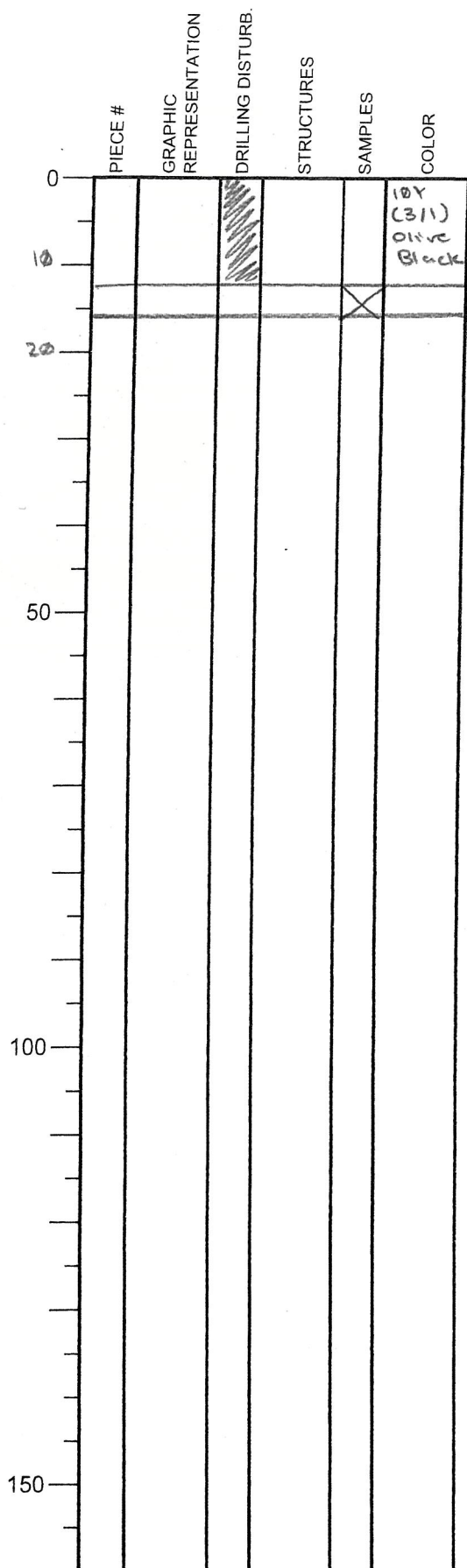
Visual Core Description

NO. 2
 DATE: 22/10/20 24
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 77K
 SECTION: 2
 TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 22/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 77K
SECTION: CC
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: René

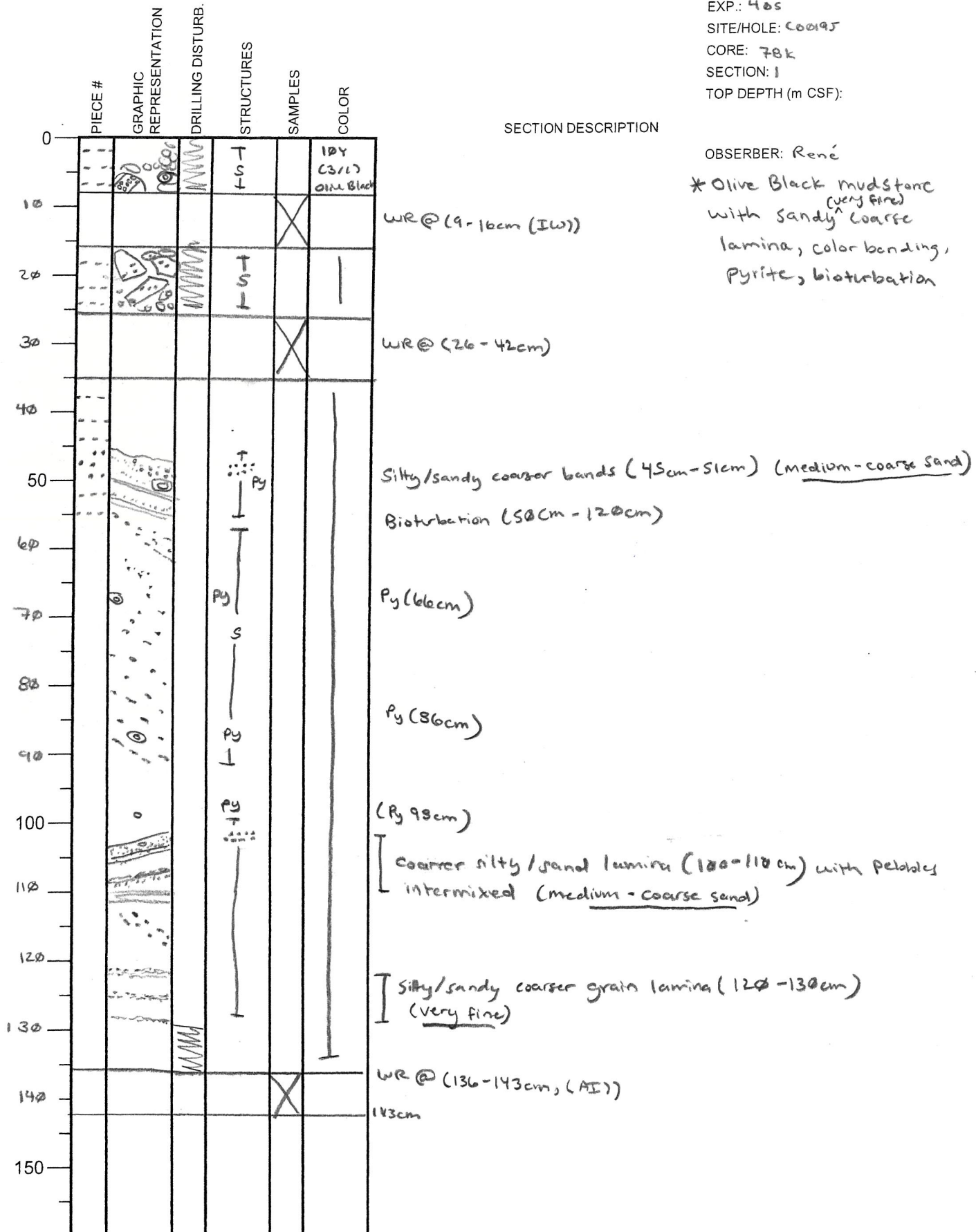
WR (11.5 - 16.5cm) PAL

16.5cm

* Highly disturbed Olive Black
mudstone with brown cutting(?)
mixed in

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 22/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 78k
SECTION: 1
TOP DEPTH (m CSF):

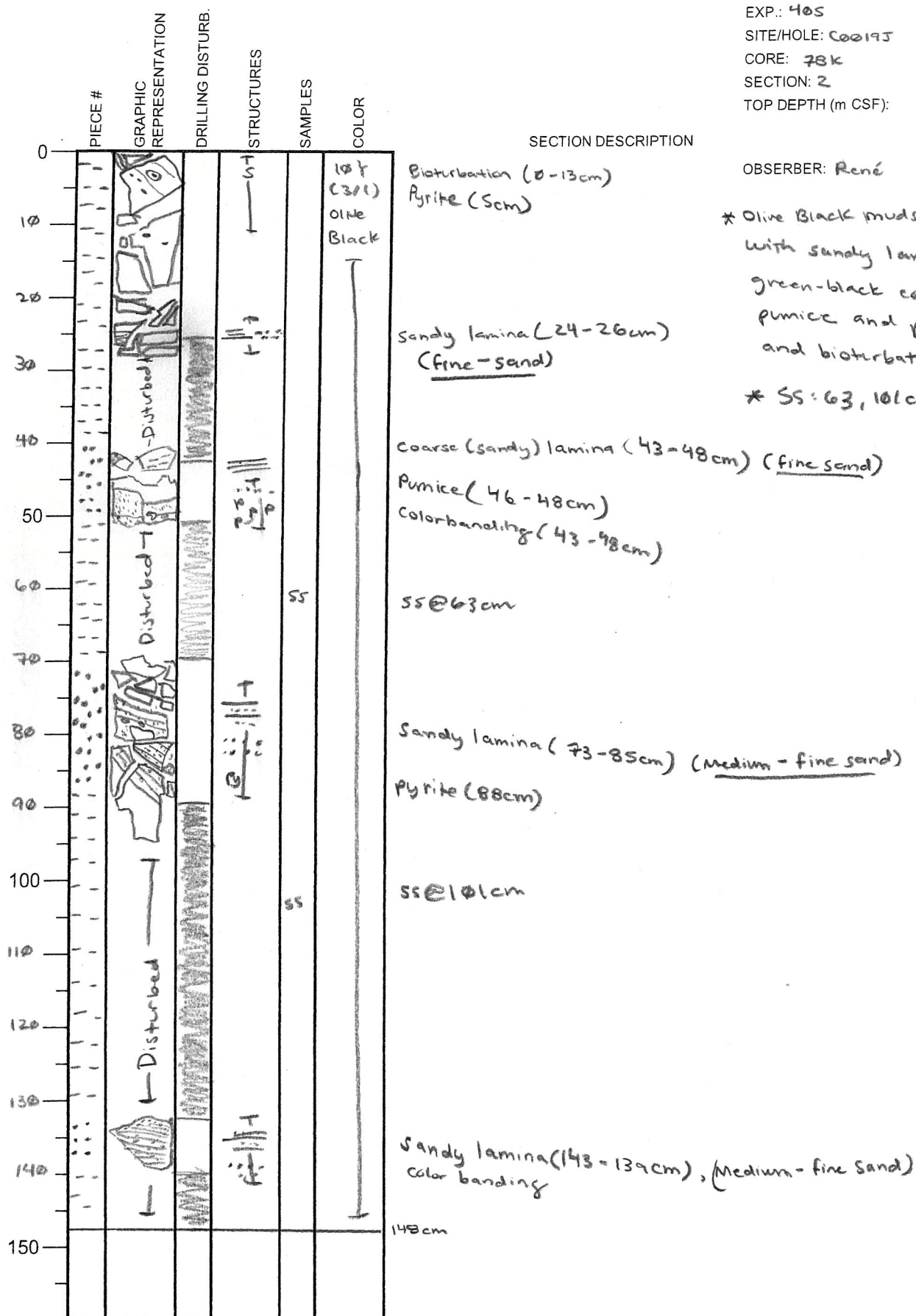


OBSERVER: René

*Olive Black mudstone
(very fine)
with sandy coarse
lamina, color banding,
pyrite, bioturbation

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 22/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 78K
SECTION: 2
TOP DEPTH (m CSF):



OBSERVER: René

* Olive Black mudstone
with sandy lamina,
green-black colorbanding,
pumice and pyrite
and bioturbation

* SS: 63, 101cm

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 22/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 78K
SECTION: CC
TOP DEPTH (m CSF):

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

SECTION DESCRIPTION

WR (0-5cm; PAL)
5cm

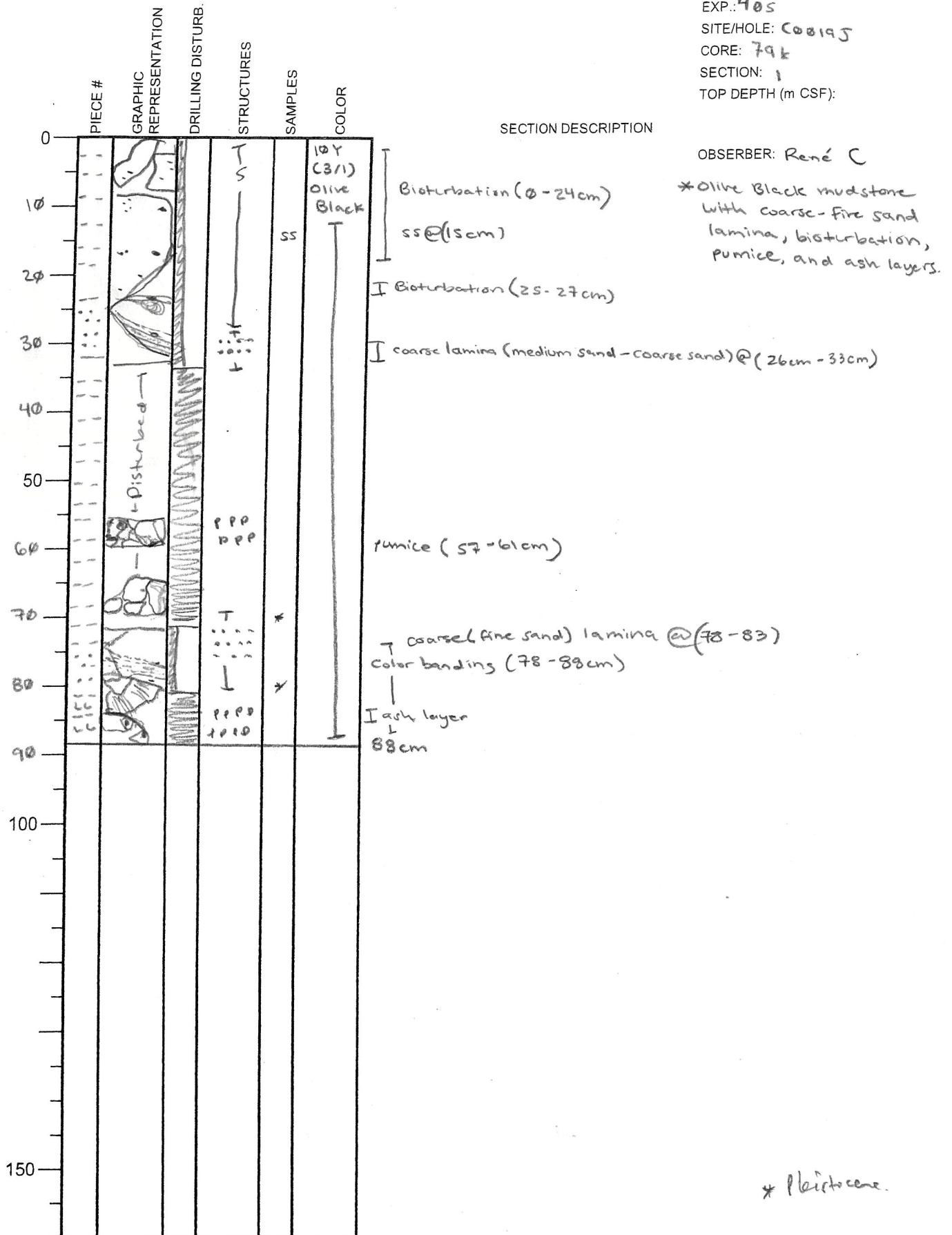
OBSERVER: René

* Nothing to describe

International Ocean Discovery Program

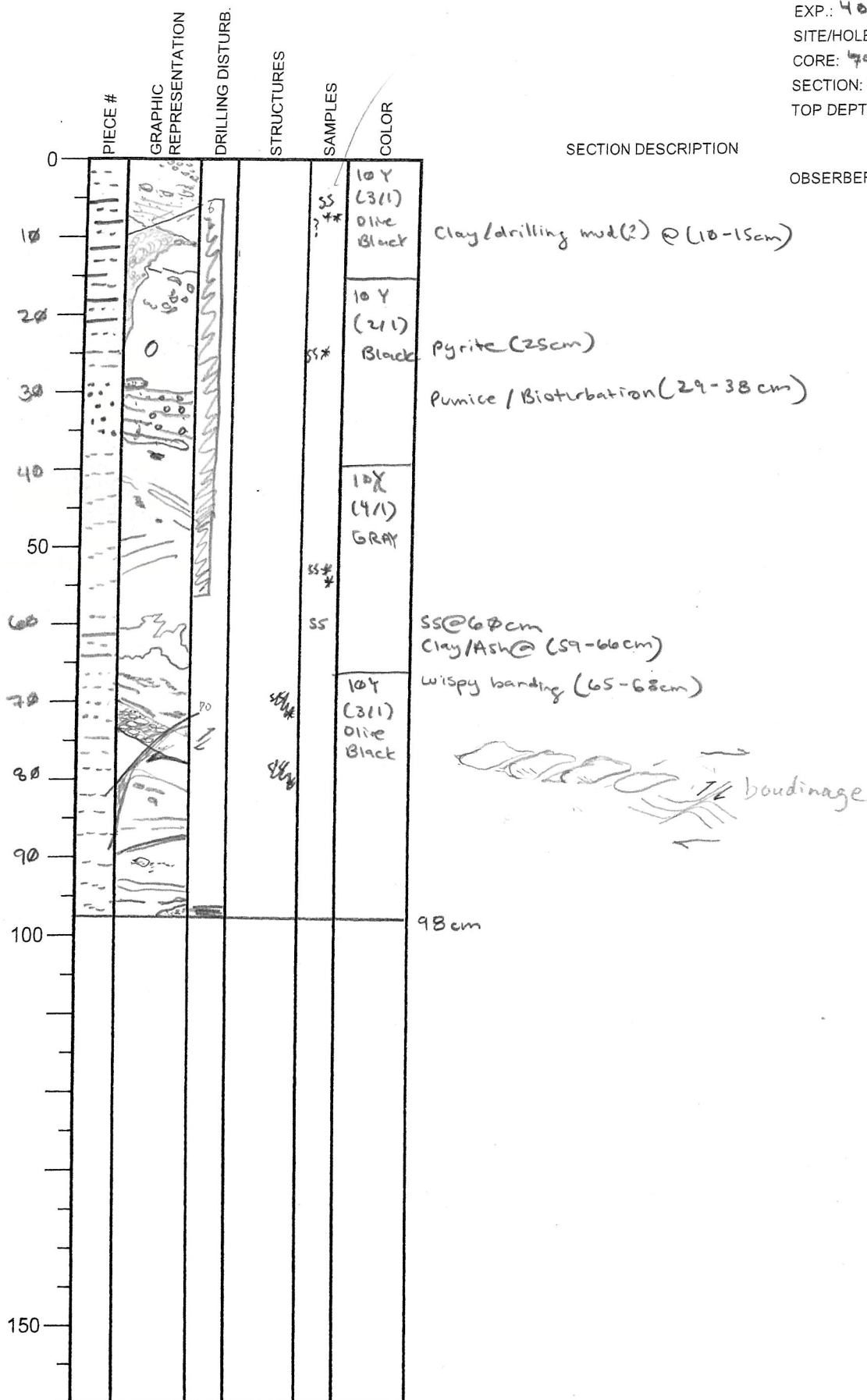
Visual Core Description

NO. 1
 DATE: 22/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 796
 SECTION: 1
 TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 22/10/20 24
EXP.: 405
SITE/HOLE: C0019J
CORE: 79K
SECTION: 2
TOP DEPTH (m CSF):



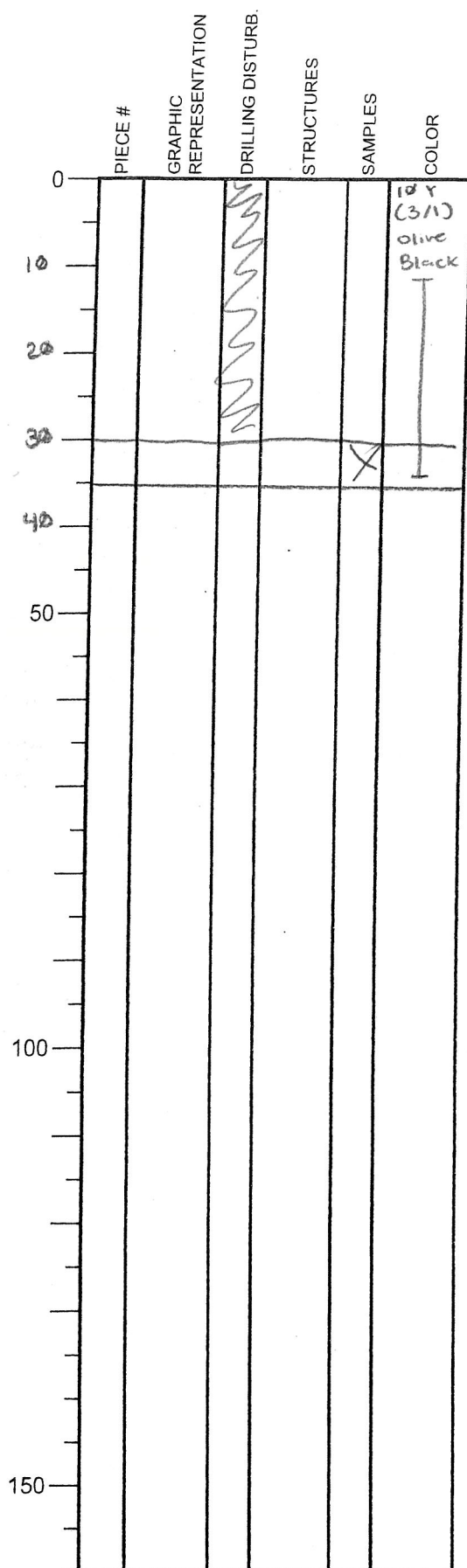
* Pleistocene

** Miocene 5.6-6.6

? Potential contamination (mainly Pleistocene)

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 22/10/2024
EXP.: 405
SITE/HOLE: C00193
CORE: 792
SECTION: CC
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: René C

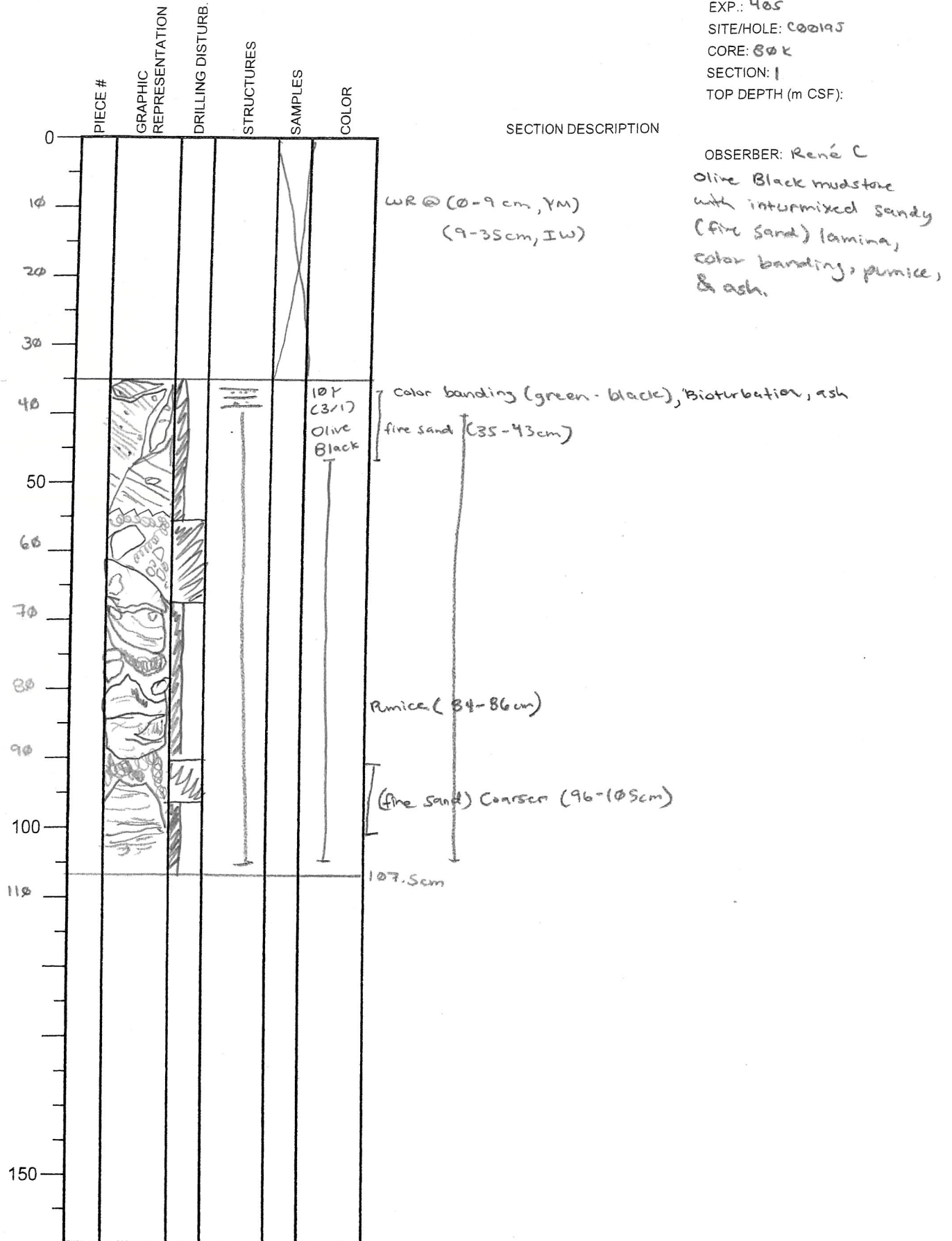
** Highly disturbed olive black mudstone*

WR @ 31.5 - 36.5cm, PAL
36.5cm

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 22/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: BOK
 SECTION: 1
 TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 22/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 80K
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0					10Y L3/1 olive black	
10						
20				X		WRP (20.5-25.5cm, PAL)
25.5cm						
30						
50						
100						
150						

OBSERVER: René C

* Olive Black mudstone
with color banding,
pumice, highly
disturbed

NO. 1
DATE: 10 / 1 / 2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 81k
SECTION:)
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			↑		7.5Y 3/1 black
			SS		
			↓		7.5Y 3/1
			↑		
			↓		7.5Y 3/1
			Ⓐ		7.5Y 3/1 Dark greenish gray
50			SS		7.5Y 3/1 Black
			↑		7.5Y 3/1 Dark greenish + gray mottled olive black
			SS		(2/1)
			↓		7.5Y 3/1 Black
			SS		Black 2/1
100			Ⓟ		7.5Y 3/1 olive black
			SS		
			↑		gray white 7.5Y 3/1
			SS		
			↓		7.5Y 4/1
150					

near horizontal, ribbed burrows



discontinuous silt with
ash patches

ash lare, yellowish gray

green colour banding, affected by faults

to drive black.

Base section @ 130 cm

Greenish gray to
gray mudstone with
darker gray siltier beds.

NO.
DATE: 22/10/2029
EXP.: 405
SITE/HOLE: C00195
CORE: 81k
SECTION: 2
TOP DEPTH (m CSF):

	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0							
50							significant burrowing silty base of bed, faulted green colour banding Base of section @ 9cm
100							
150							

NO.
DATE: 22/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 81k
SECTION: CC
TOP DEPTH (m CSF):

Individual clasts of mudstone + tuff (drifting disturbance)
Base core @ 115cm

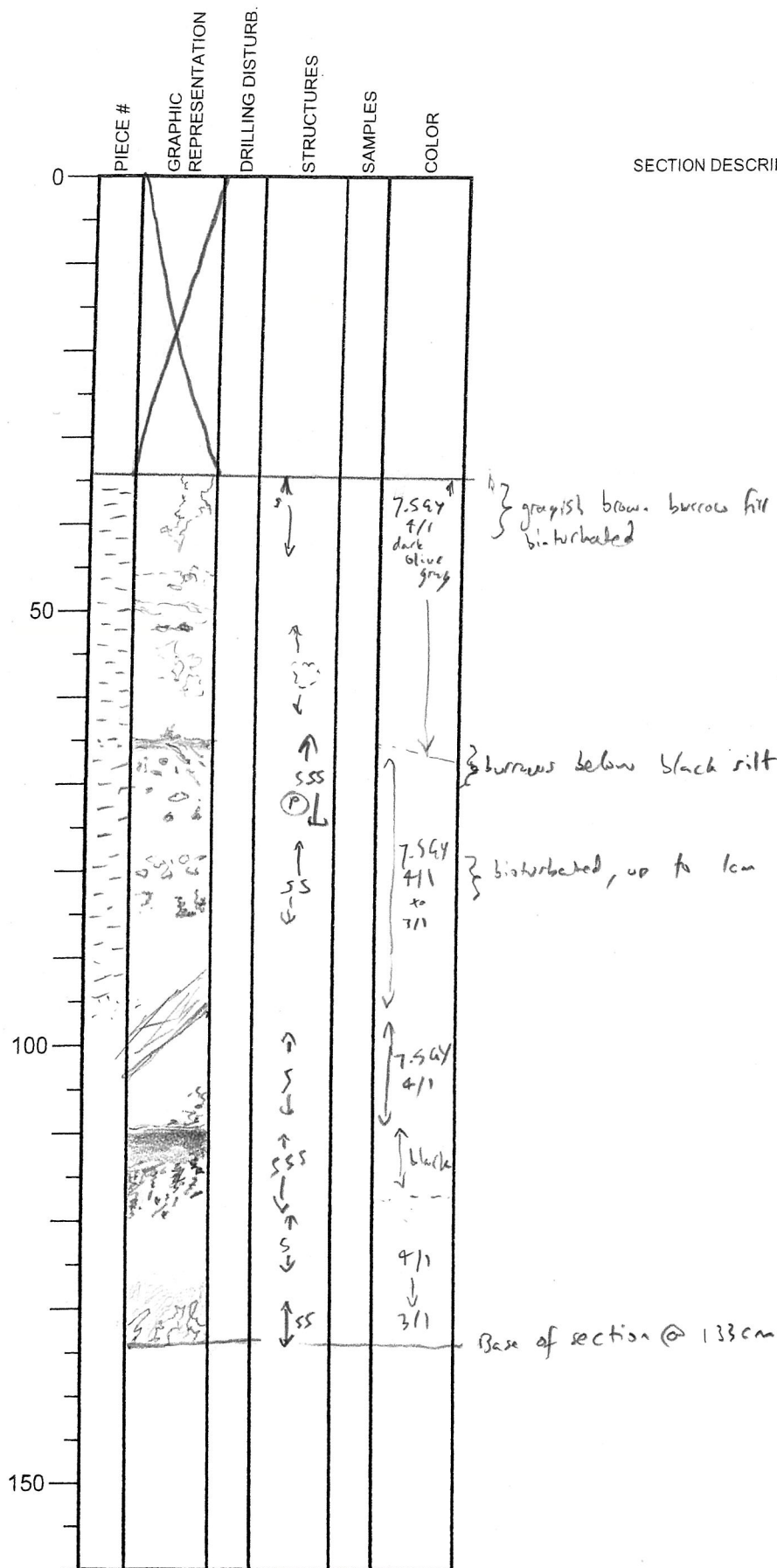
PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					7.5G 3/1 2/1 6/1
					↑ Olive black + gray
50					
100					
150					

International Ocean Discovery Program Visual Core Description

NO. ~~82R~~ 1
DATE: 22/10/2024
EXP.: 405
SITE/HOLE: C0019.5
CORE: 82K
SECTION: 1
TOP DEPTH (m CSF):

SECTION DESCRIPTION

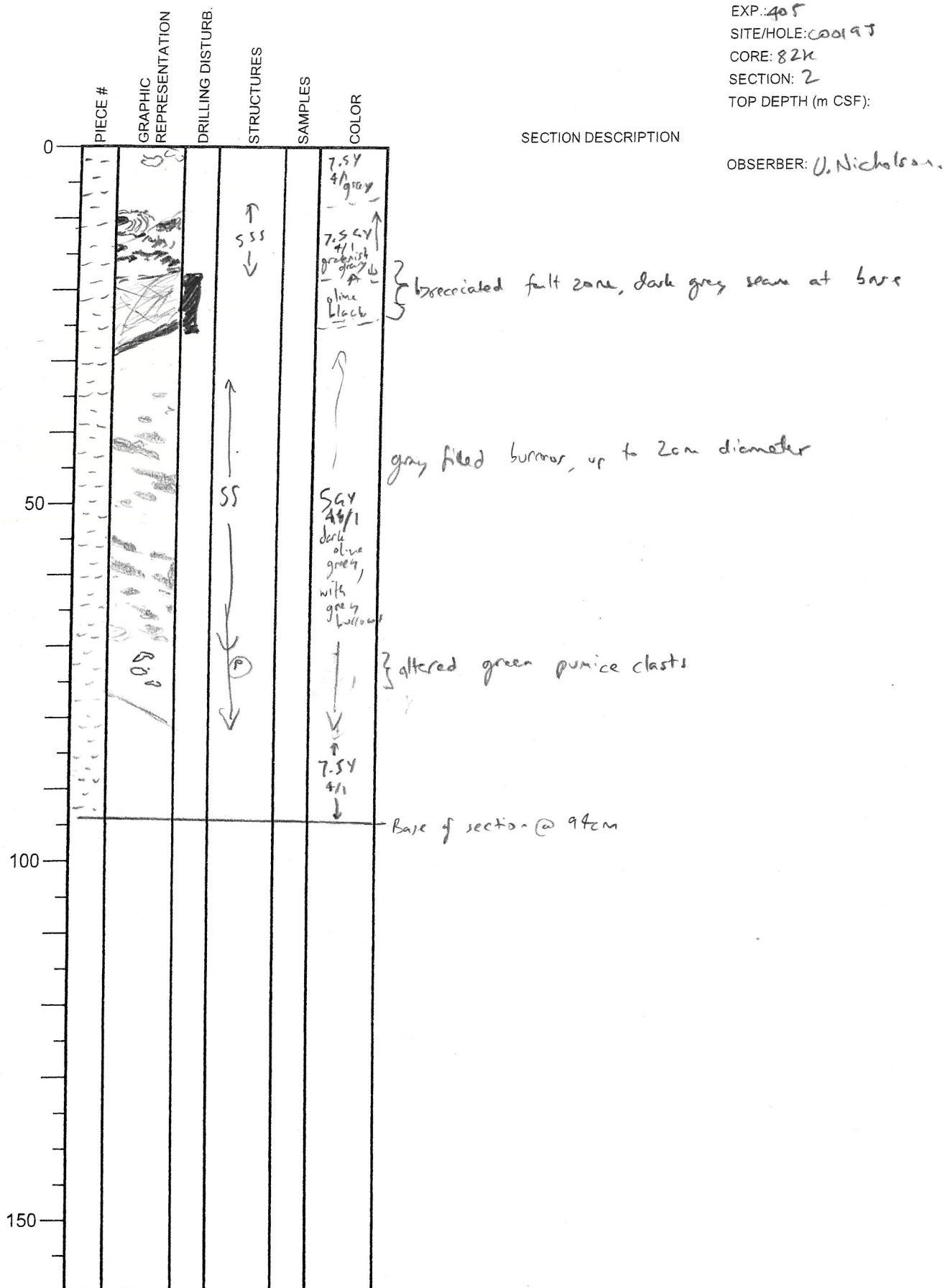
OBSERVER: V. Nicholson



Greenish gray to gray
medium, extensively
bioturbated, significant ash
components

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 22/11/2024
EXP: 405
SITE/HOLE: C00195
CORE: 82K
SECTION: 2
TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

NO. 3
DATE 22/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 824
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0			SS ↑		grey + greenish grey
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: U. Nicklason
mudstone

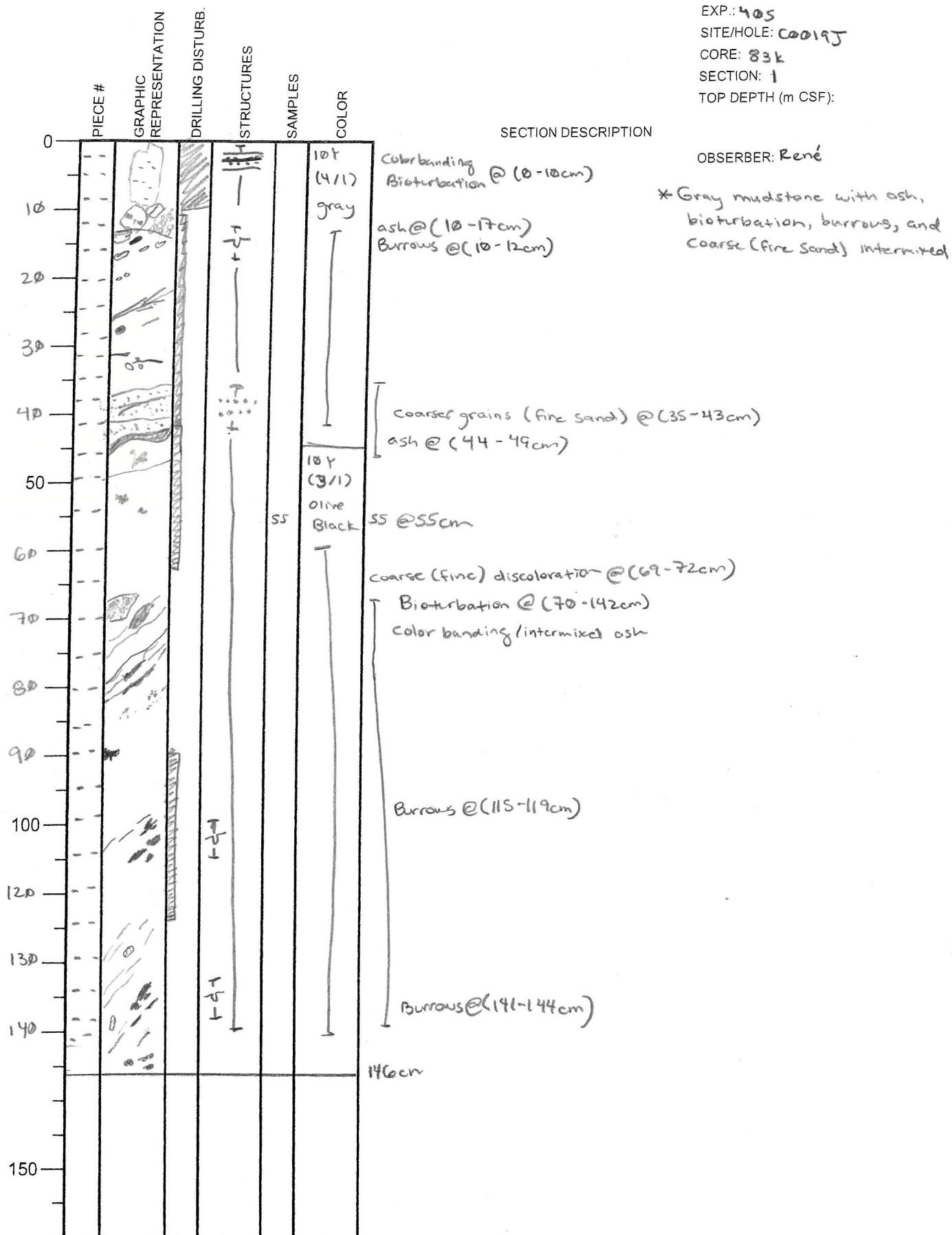
- mottled grey + granish grey

Base of core @ 15.5cm

International Ocean Discovery Program

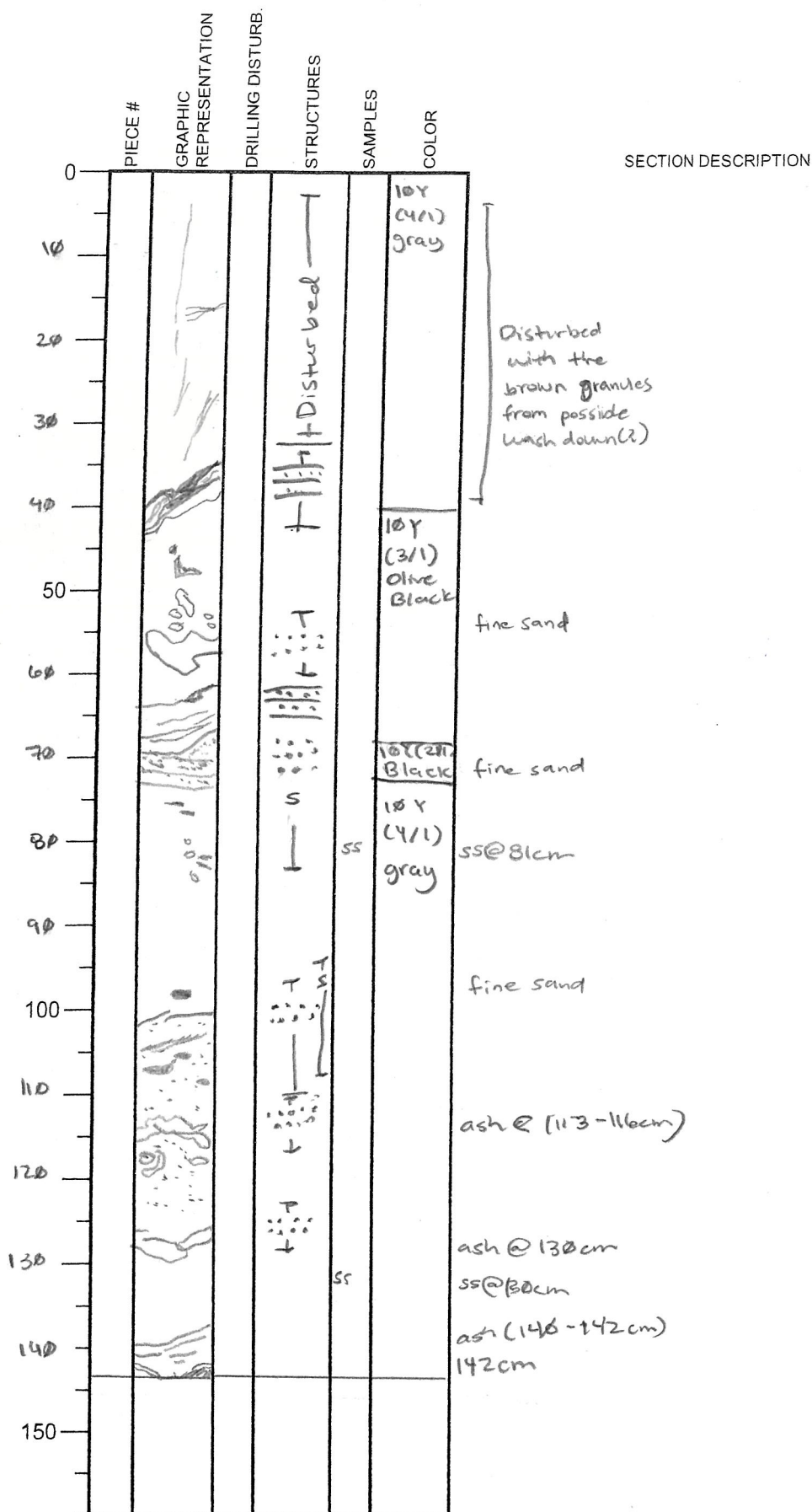
Visual Core Description

NO. 1
 DATE: 23/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 83k
 SECTION: 1
 TOP DEPTH (m CSF):



International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 23/10/2024
EXP.: 405
SITE/HOLE:
CORE: 83K
SECTION: 2
TOP DEPTH (m CSF):



OBSERVER: René C

* Gray-green-olive black mudstone material with bioturbation, inter mixed ash/coarse (fine sand) grains and color banding (green-black)

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 23/10/2020
EXP.: 405
SITE/HOLE: C0219J
CORE: 83k
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				X	
12.5					
20					
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: René

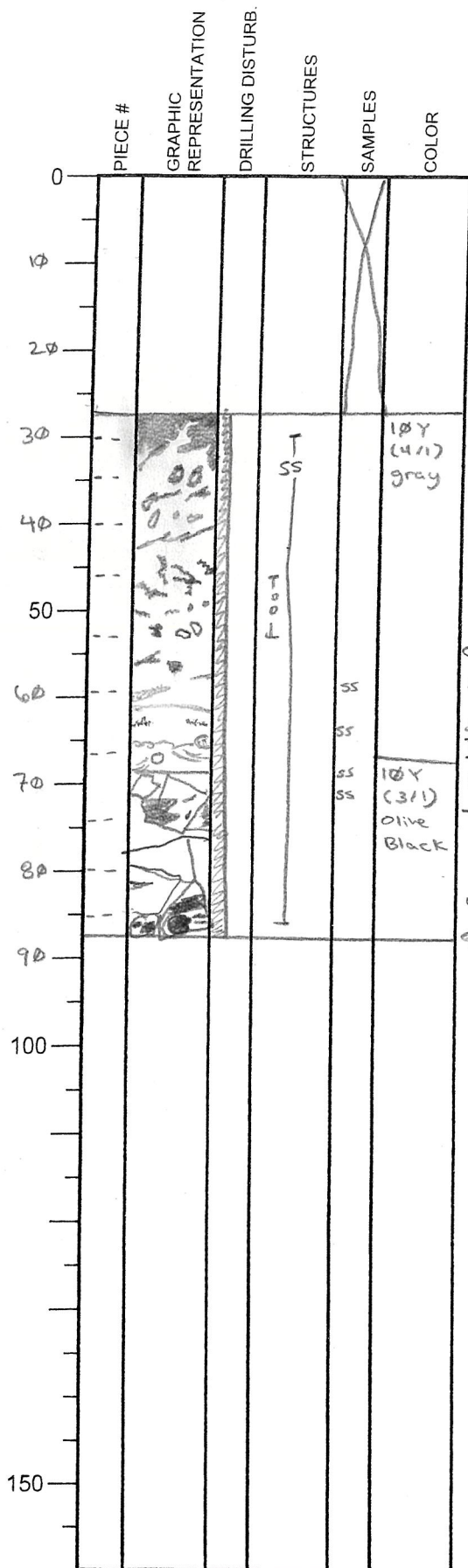
WR (PALE 0-5cm)

* Angular disaggregates with ash

12.5cm

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 23/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 84K
SECTION: 1
TOP DEPTH (m CSF):



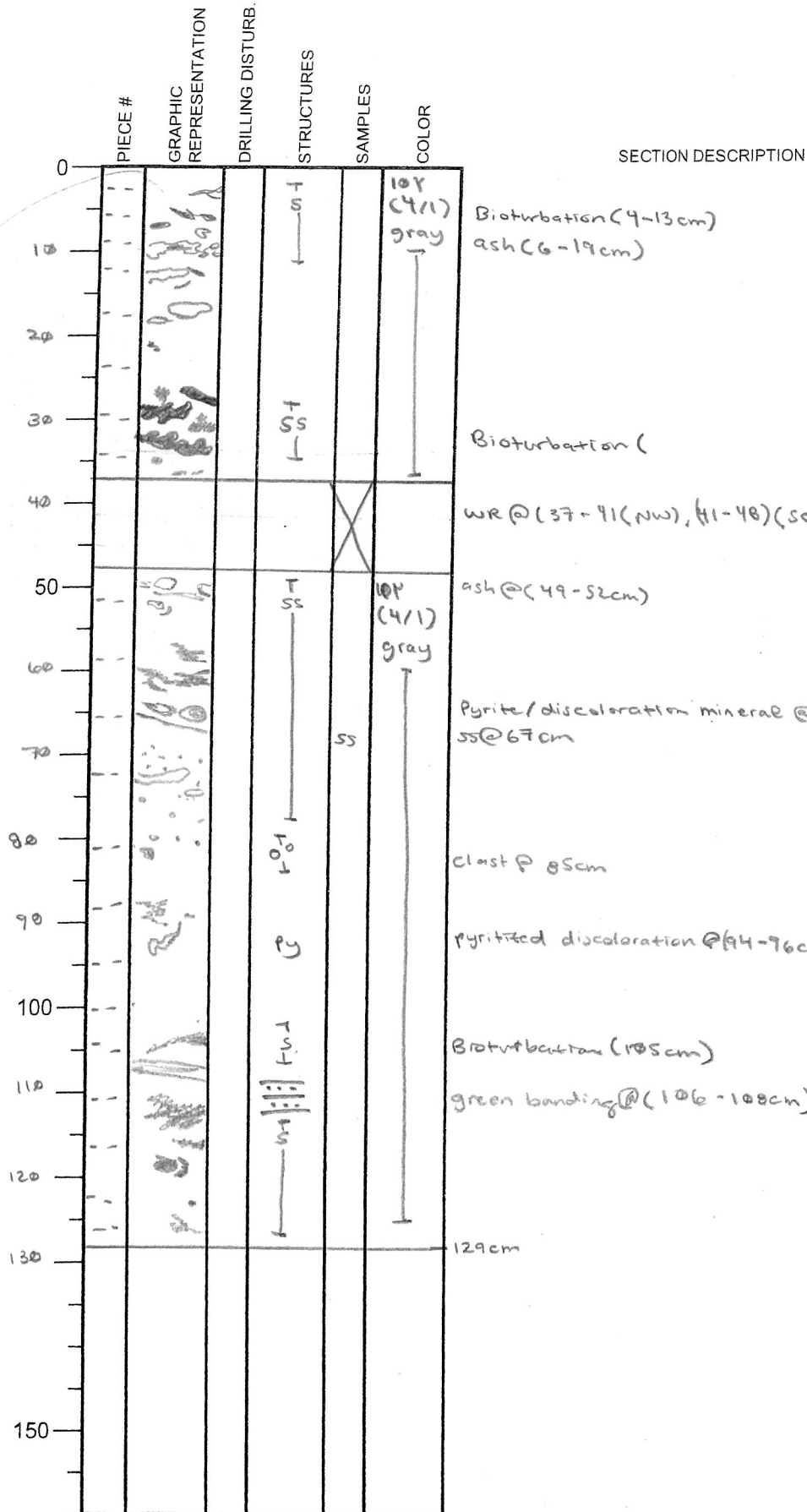
SECTION DESCRIPTION

OBSERVER: René C

- * Gray-Olive Black mudstone with moderate bioturbation, ash layering / lens, and color banding (black)
- * SS @ 60, 66, 70, 72cm

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 23/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 84K
SECTION: 2
TOP DEPTH (m CSF):



OBSERVER: René

* gray mudstone material that is bioturbated with intermixed ash, clasts, pyrite and green color banding/discolorations/alterations

International Ocean Discovery Program Visual Core Description

NO.
DATE: 23/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 04K
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					10Y (4/1) gray
10					
20				X	
30					
40					
50					
60					
70					
80					
90					
100					
150					

SECTION DESCRIPTION

OBSERVER: René

*Highly disturbed
gray mudstone, disaggre-
gated pieces have
bioturbation.

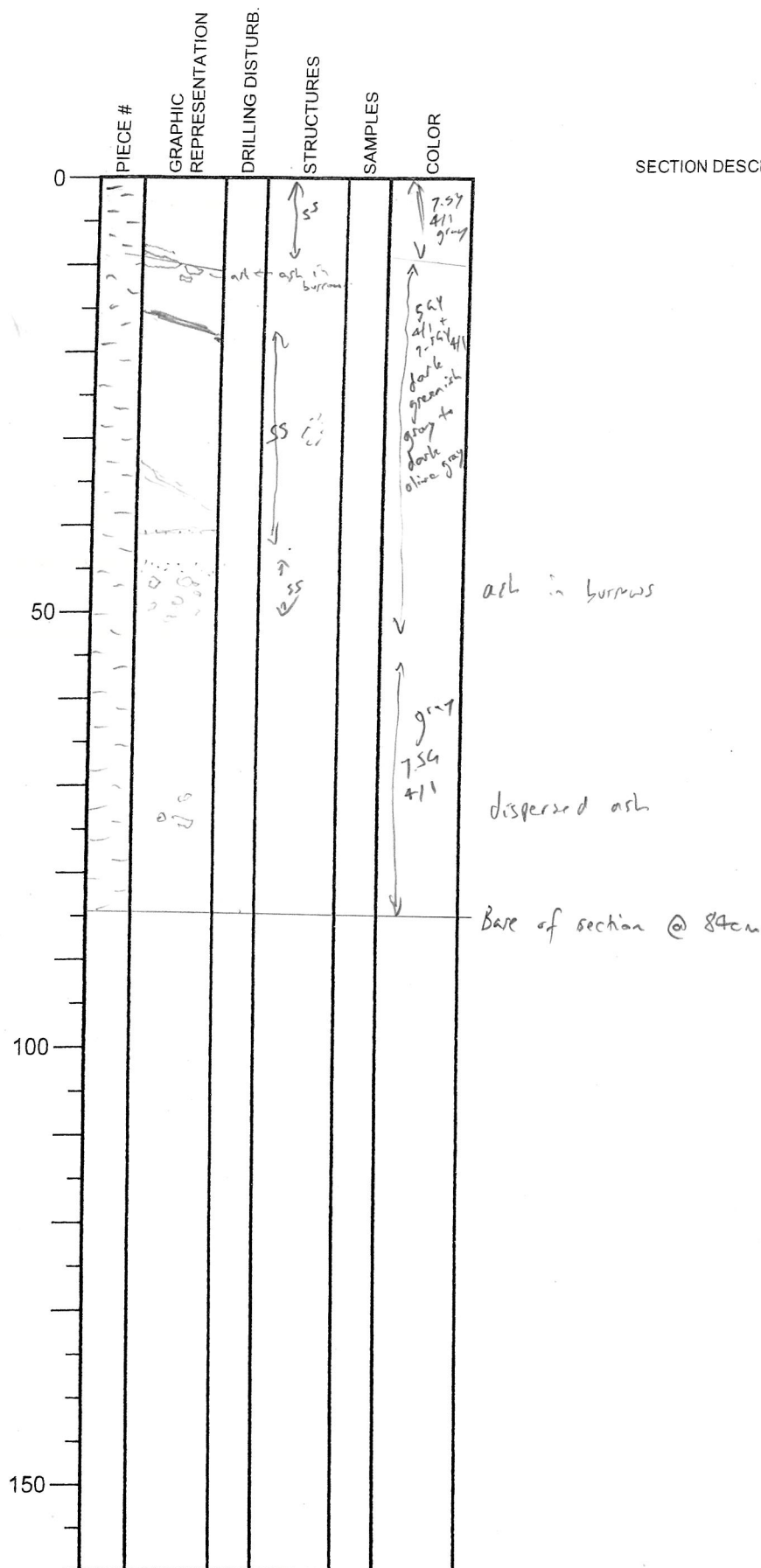
WR @ (14.5-19.5cm) PAL

International Ocean Discovery Program Visual Core Description

NO. 1
DATE 23/6/2024
EXP.: 405
SITE/HOLE: C02195
CORE: 85K
SECTION: 1
TOP DEPTH (m CSF):

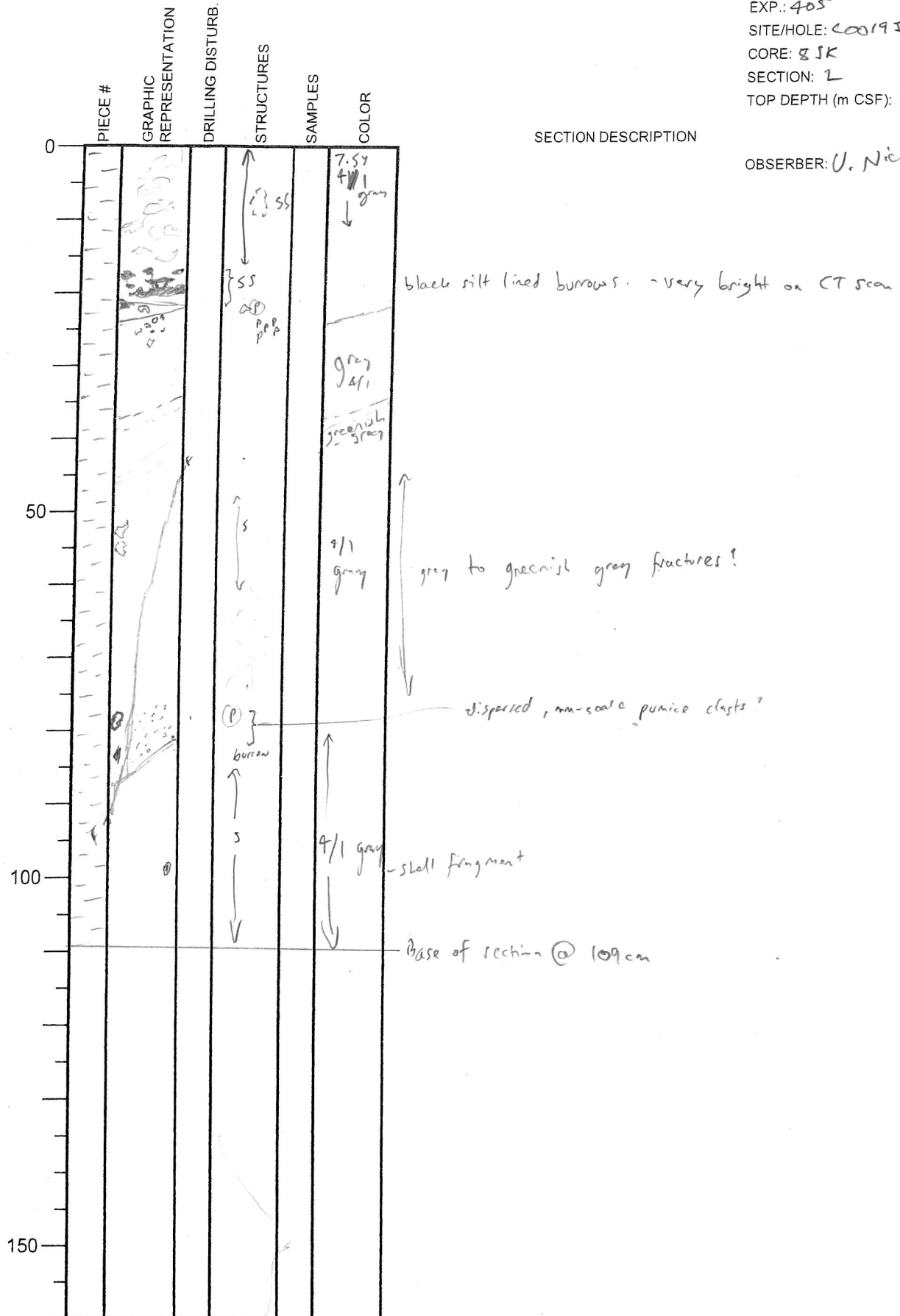
SECTION DESCRIPTION

OBSERVER: U. Nicholson



International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 23/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 8 JK
SECTION: 2
TOP DEPTH (m CSF):

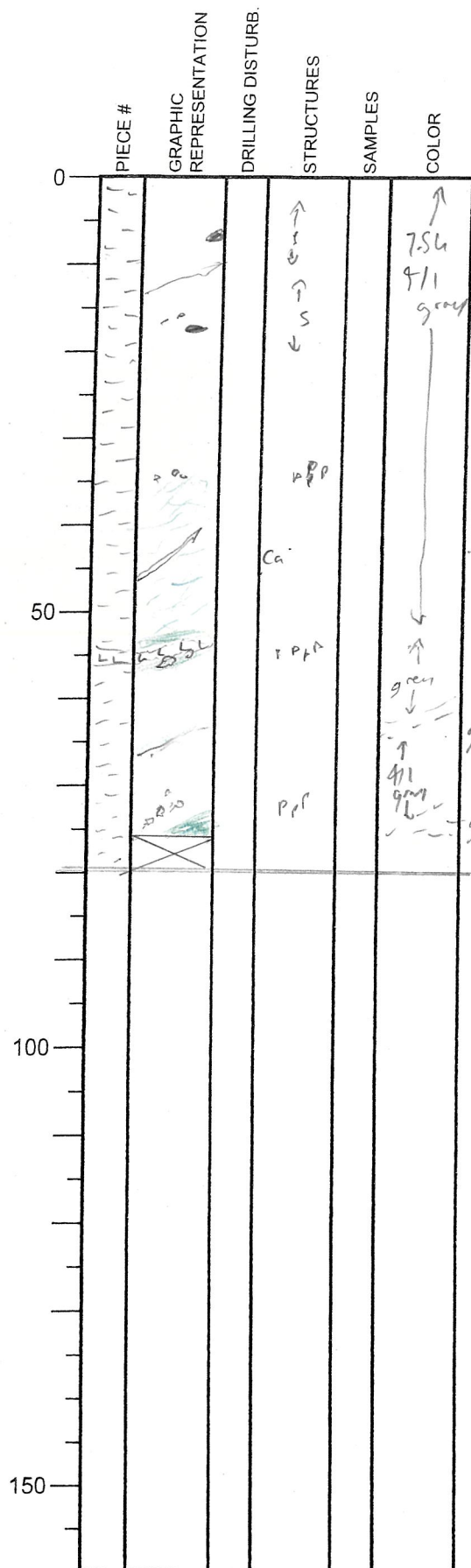


International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 23/01/2024
EXP.: 905
SITE/HOLE: C00195
CORE: 85K
SECTION: 3
TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: U. Nicholson



International Ocean Discovery Program Visual Core Description

NO. 4
DATE: 23/10/2024
EXP.: 405
SITE/HOLE: COORS J
CORE: 8SK
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					↑ 10h 2/1
					(dark greenish gray) ↓
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: U. Nicholson.

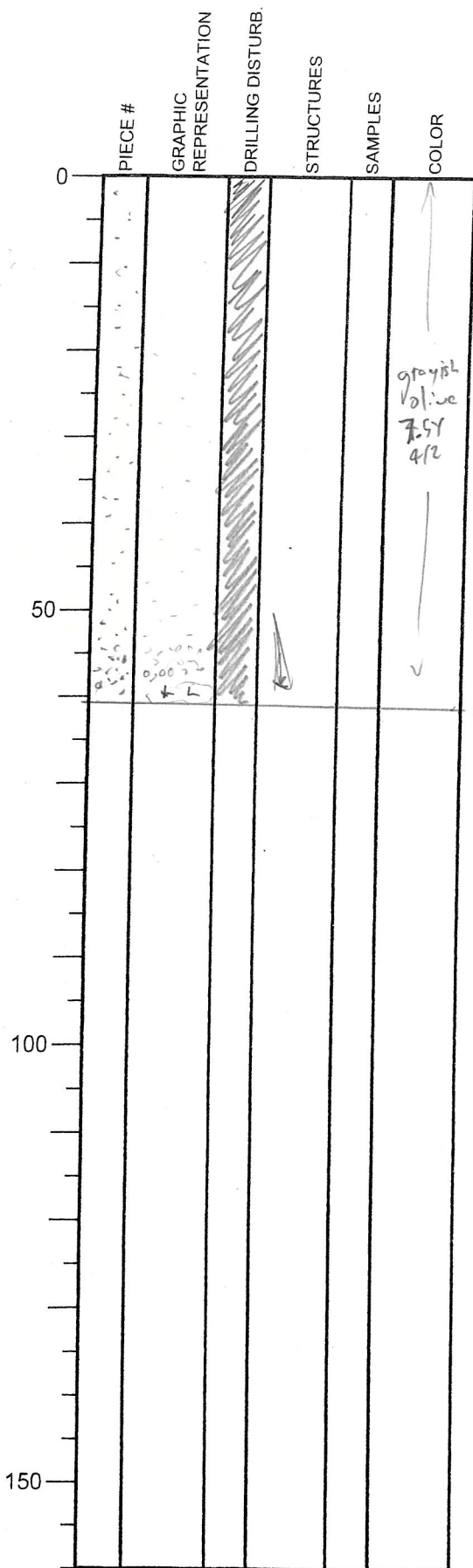
Distinctly more greenish gray
+ marginally bluish gray at mudstone
- heavily fractured + vethed
} brecciated

Base of core @ 23cm

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 23/01/2024
 EXP.: 405
 SITE/HOLE: C0019
 CORE: 86K
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

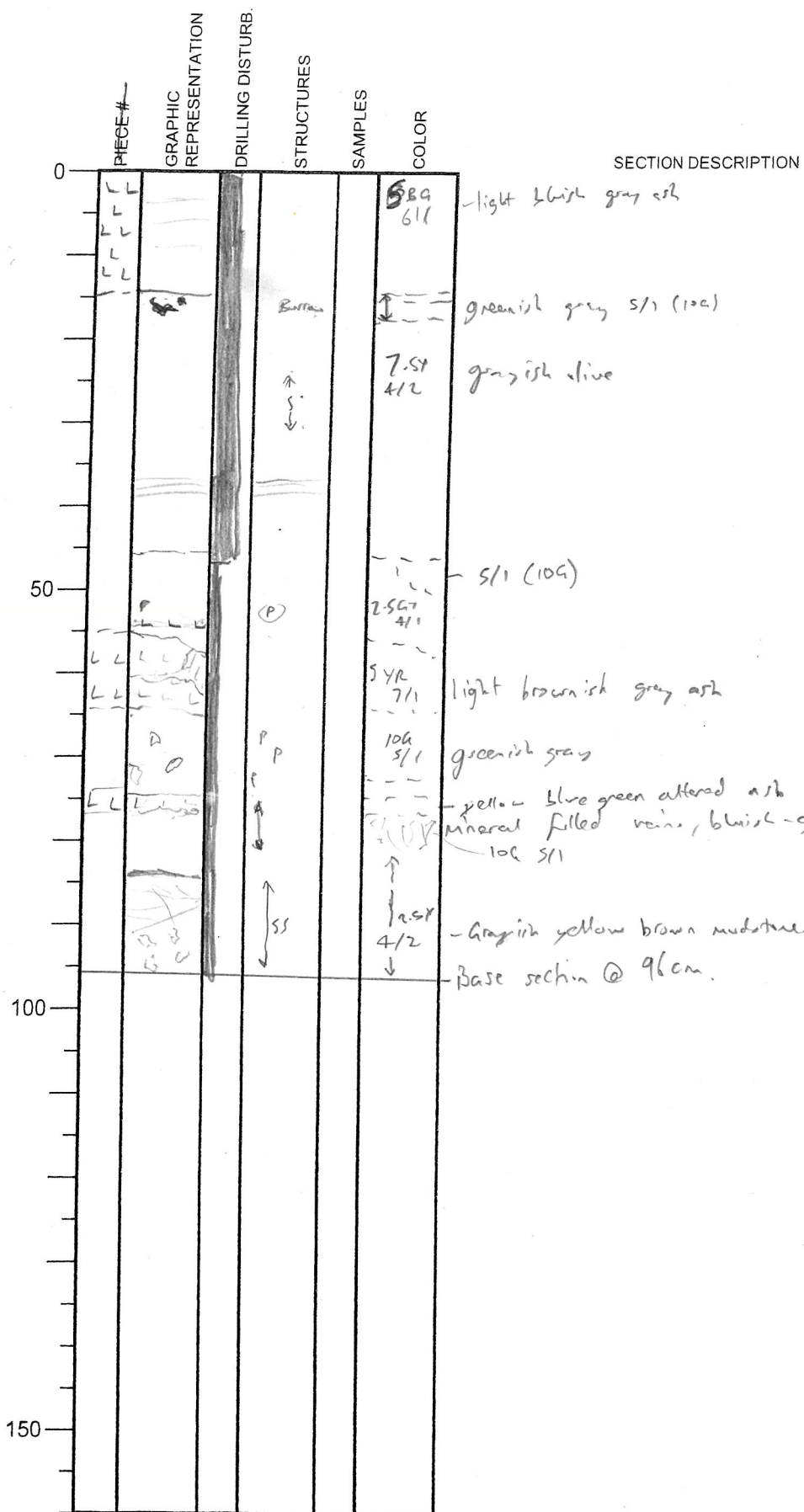
OBSERVER: U. Nicholson

Loose, very coarse to fine sand (apparently graded) clasts of mudstone. Almost certainly not ^{intact} ~~part~~ or in-situ part of the formation.

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 24/10/2024
EXP.: 405
SITE/HOLE: Coo19J
CORE: 86k
SECTION: 2
TOP DEPTH (m CSF):

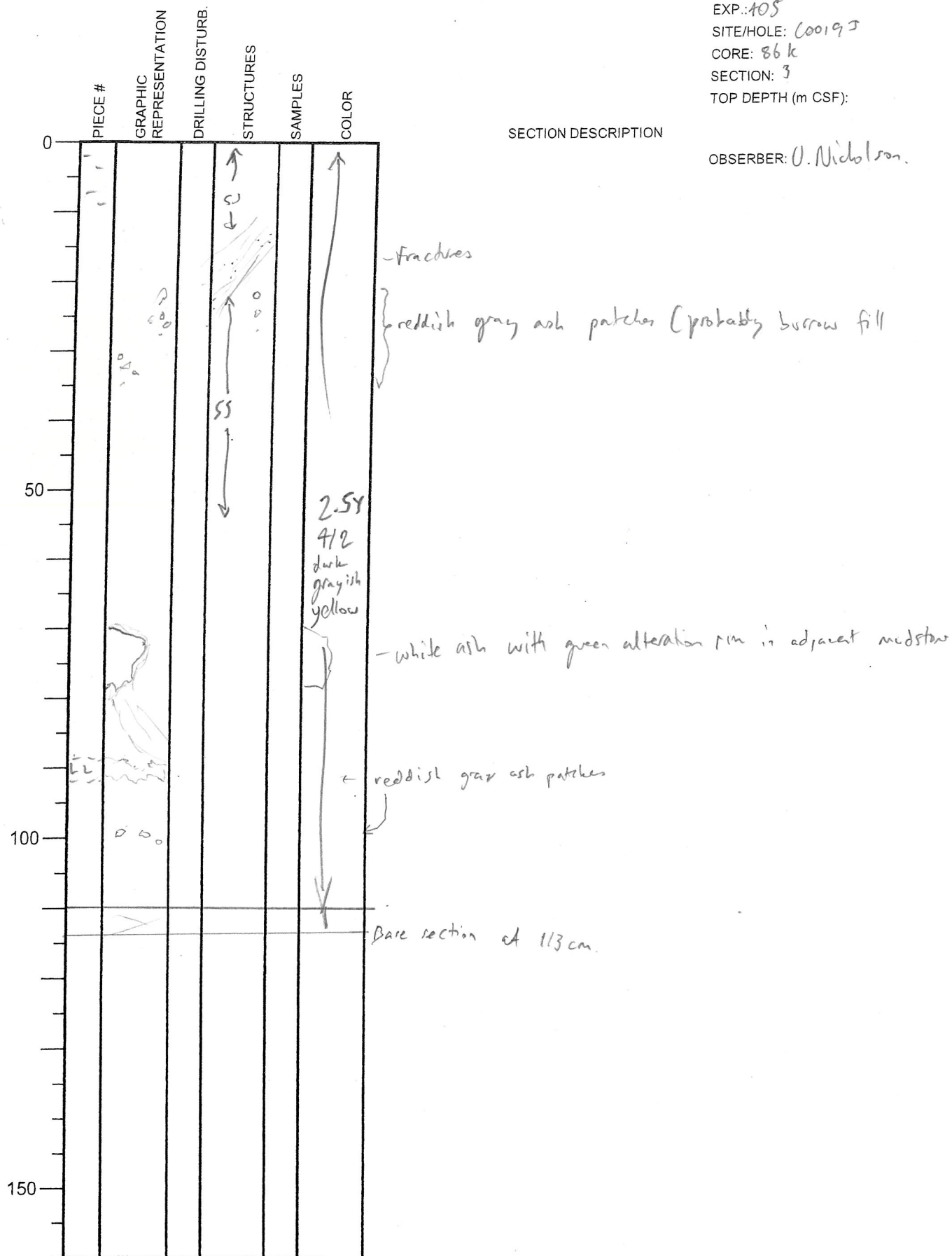
OBSERVER: U. Nicholson



gray (at top) to
brown (at base)
mudstone, intense
green alteration
around ash beds in
particular, and in
adjacent fractures.

International Ocean Discovery Program Visual Core Description

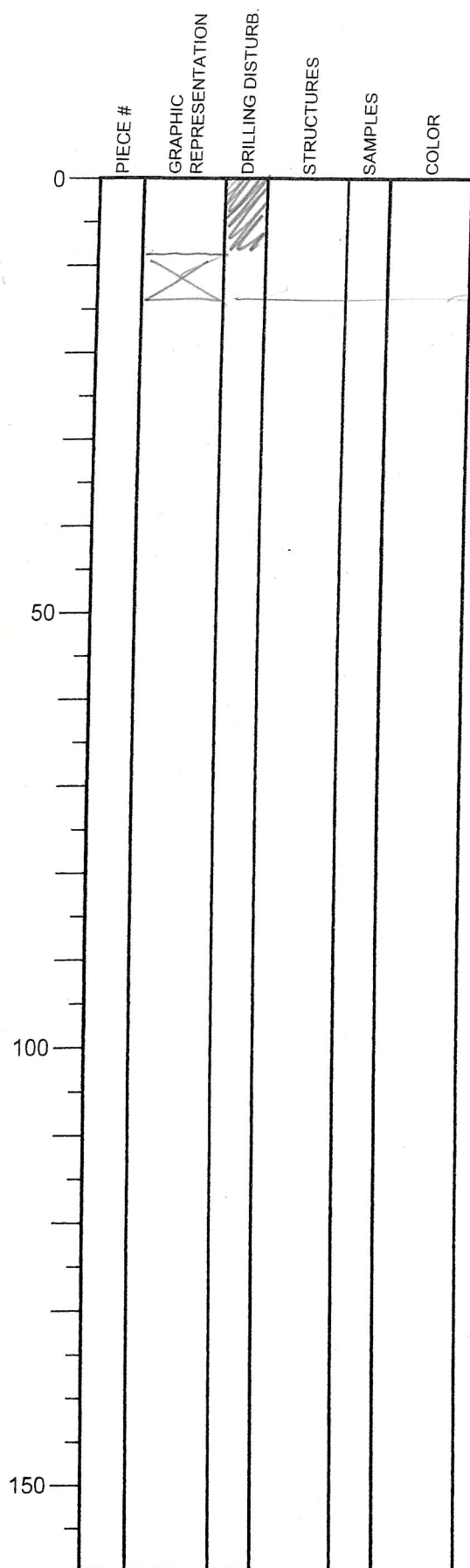
NO. 3
DATE: 23/10/2024
EXP.: 105
SITE/HOLE: C0019 J
CORE: 86 k
SECTION: 3
TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

NO. 4
 DATE: 28/10/2024
 EXP: 405
 SITE/HOLE: C00195
 CORE: 86k
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

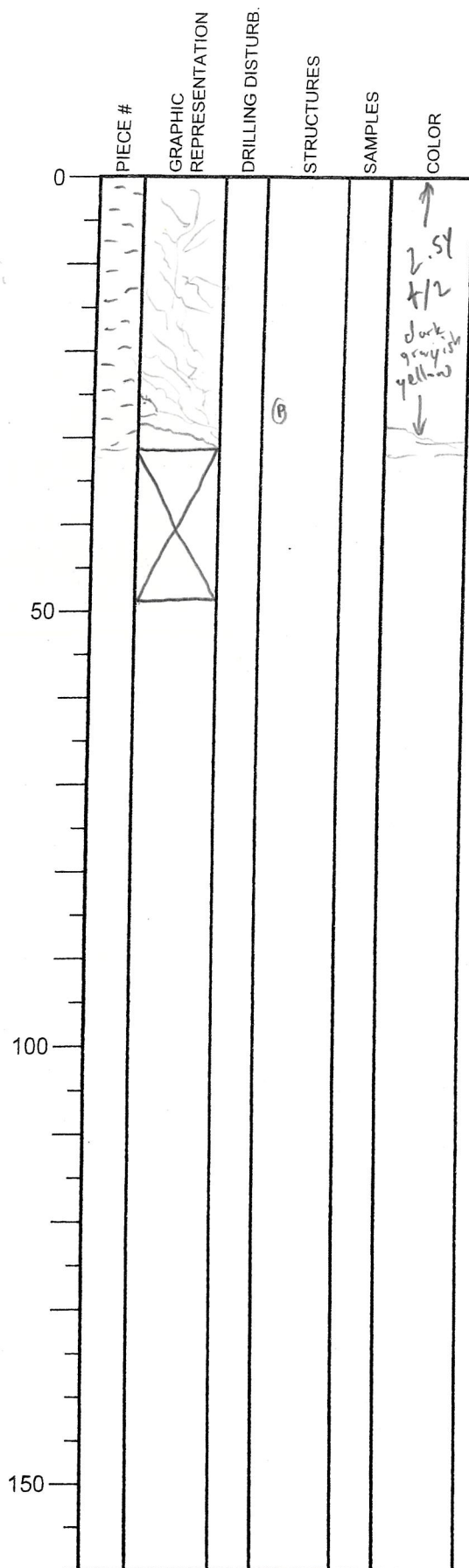
dark grayish yellow and
 greenish gray broken pieces.
 Base core @ 13.5 cm.

OBSERVER: U. Nicholson

International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 23/10/2021
 EXP.: 405
 SITE/HOLE: C00195
 CORE: 87k
 SECTION: 1
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: U. Nicholson

2.54
 1/2
 dark grayish yellow
 ash particles and greenish gray patches around them and around fractures.
 wispy fractures throughout.
 altered green ash/pumice.
 Brown.

International Ocean Discovery Program Visual Core Description

Boundary between mudstone and chert

NO. FAULT

DATE: 25/10/2024

EXP.: 405

SITE/HOLE: 00019 J

CORE: 87

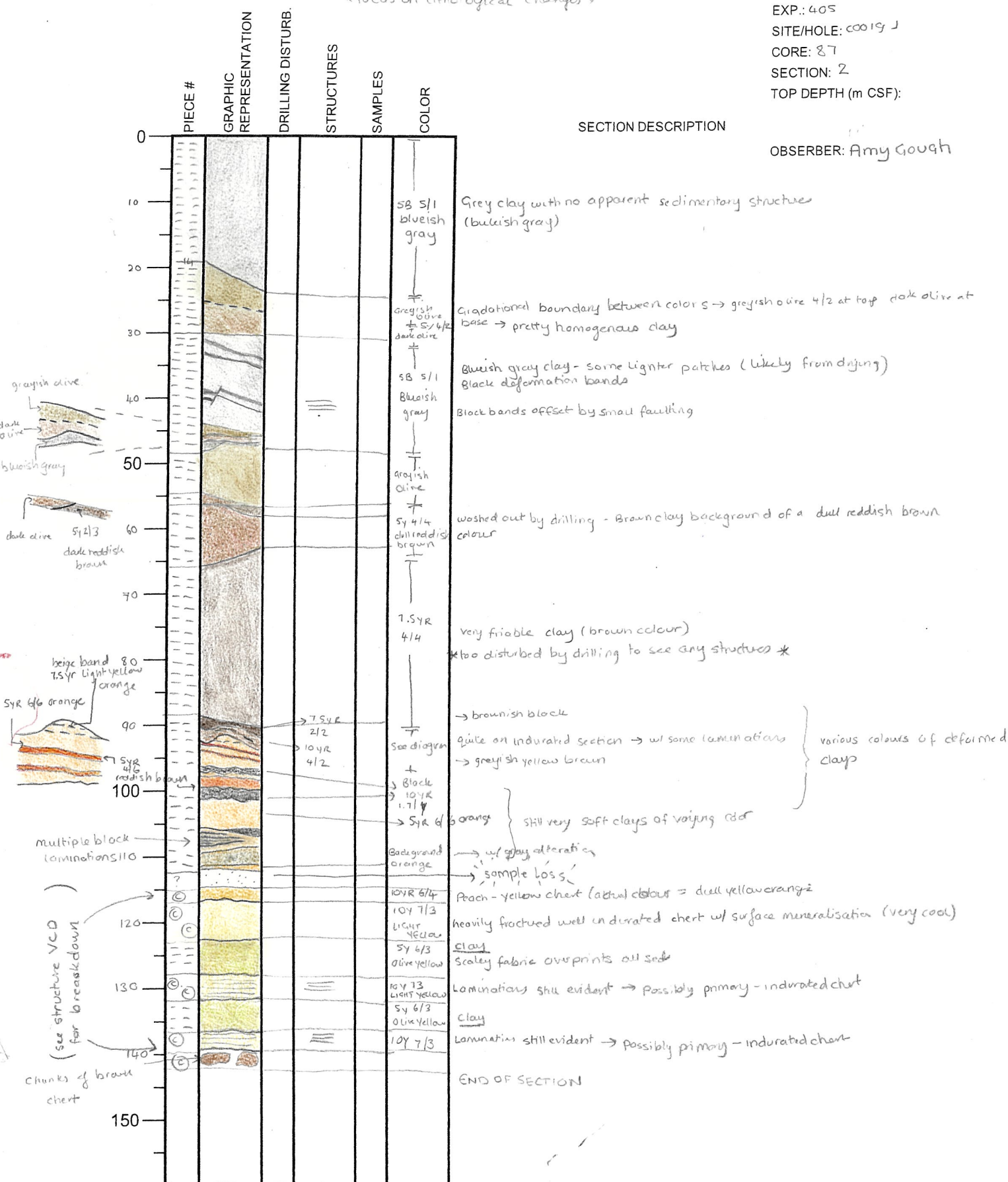
SECTION: 2

TOP DEPTH (m CSF):

* focus on lithological changes *

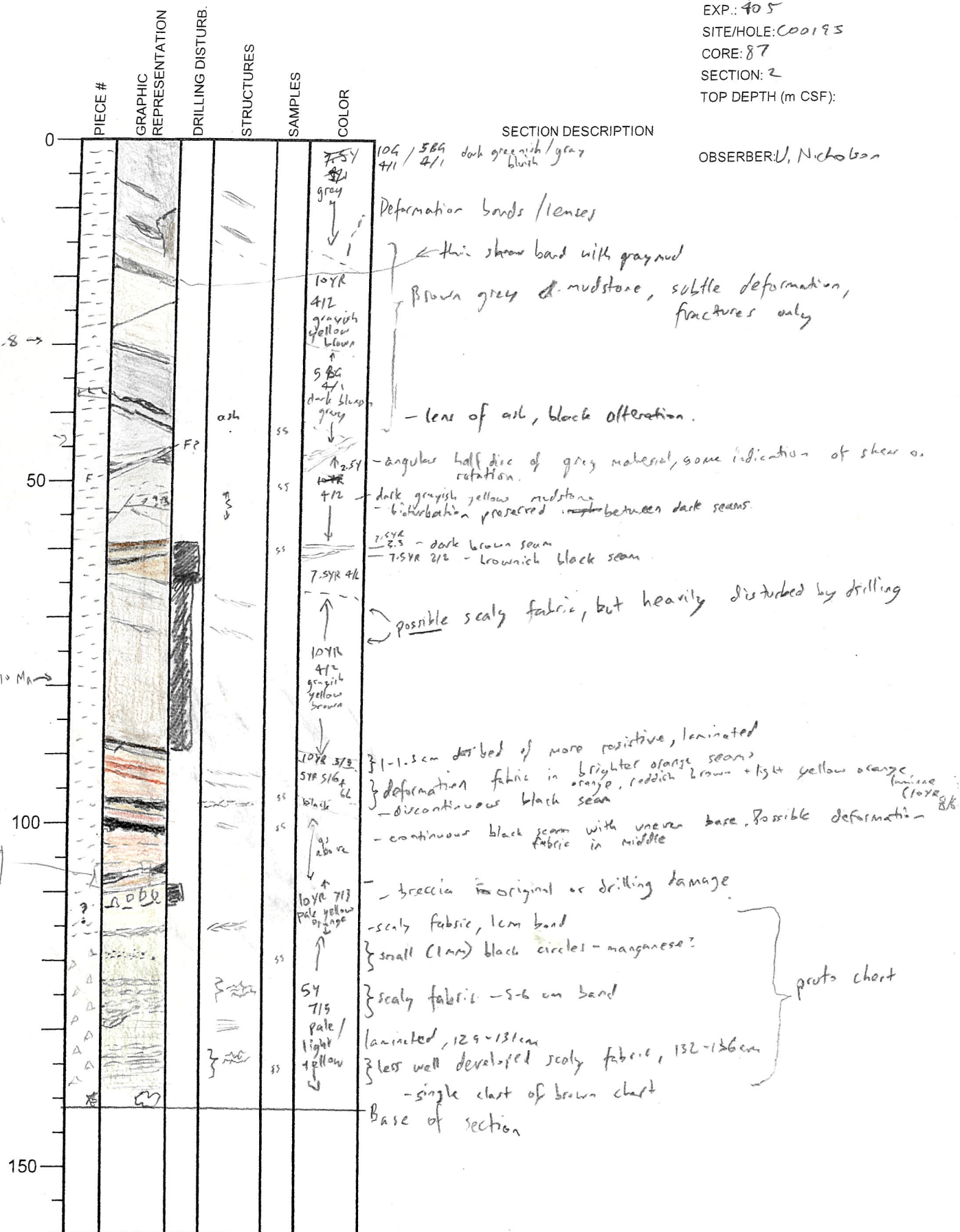
SECTION DESCRIPTION

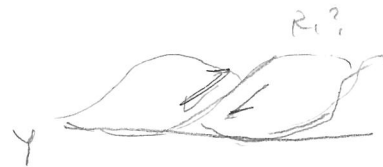
OBSERVER: Amy Gough



NO. 2
DATE 24/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 87
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER: V. Nicholson





International Ocean Discovery Program Visual Core Description

NO.
DATE: 24/10/20
EXP.: 405
SITE/HOLE: C0019J
CORE: 87K
SECTION: 2
TOP DEPTH (m CSF):

Whole Round

SECTION DESCRIPTION

OBSERVER: RINA, F.

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
10				10G 4/1 S 5BG	dark greenish gray / dark blue gray
20				4/1 10XR 4/2	grayish yellow brown
30					30-31 cm altered lith boundary .. gradual change
40				5BG 4/1	dark blue gray
50				2.5Y 4/1-4/2	yellowish gray, dark grayish yellow
60				61 SS	mudstone clayish brown
70				10XR 4/3 S	67-70 cm scaly fabric & shiny surface by clay? or
80				4/4 10XR 4/2	80-87 cm grayish yellowish brown, dull yellowish brown, brecciate scaly fabric, scaly fabric & mirror surface!
90					
100				99.5 SS 5YR 5/6	
110				5YR & 6/6	orange to bright reddish brown
117				10XR 7/6	bright yellowish brown mud
120				118.5 SS 5Y 7/3-7/4	light yellow chert, olive yellow highly (scaly fabric?) deformed, light gray to light yellow chert
130				5Y 4/3, 6/4 131 cm	remain sequence, a part of brecciated + the white stuff
131.5				133 ~ 133.5 cm	highly shear
132				134.5 ~ 135 cm	the olive yellow scaly fabric
136				137 SS 5Y 7/2	2mm thick
140					light gray massive chert
150					

dark greenish gray / dark blue gray

grayish yellow brown

30-31 cm altered lith boundary .. gradual change

dark blue gray

dark seam → 5BG 4/1
40 cm

dark blue gray
SS 40 cm was green

yellowish gray, dark grayish yellow

mudstone clayish brown

67-70 cm scaly fabric & shiny surface by clay? or

80-87 cm grayish yellowish brown, dull yellowish brown, brecciate scaly fabric, scaly fabric & mirror surface!



bright yellowish brown mud
light yellow chert
olive yellow highly (scaly fabric?) deformed
light gray to light yellow chert

remain sequence, a part of brecciated + the white stuff

133 ~ 133.5 cm highly shear

134.5 ~ 135 cm the olive yellow scaly fabric

139 ~ 139.2 2mm thick

light gray massive chert

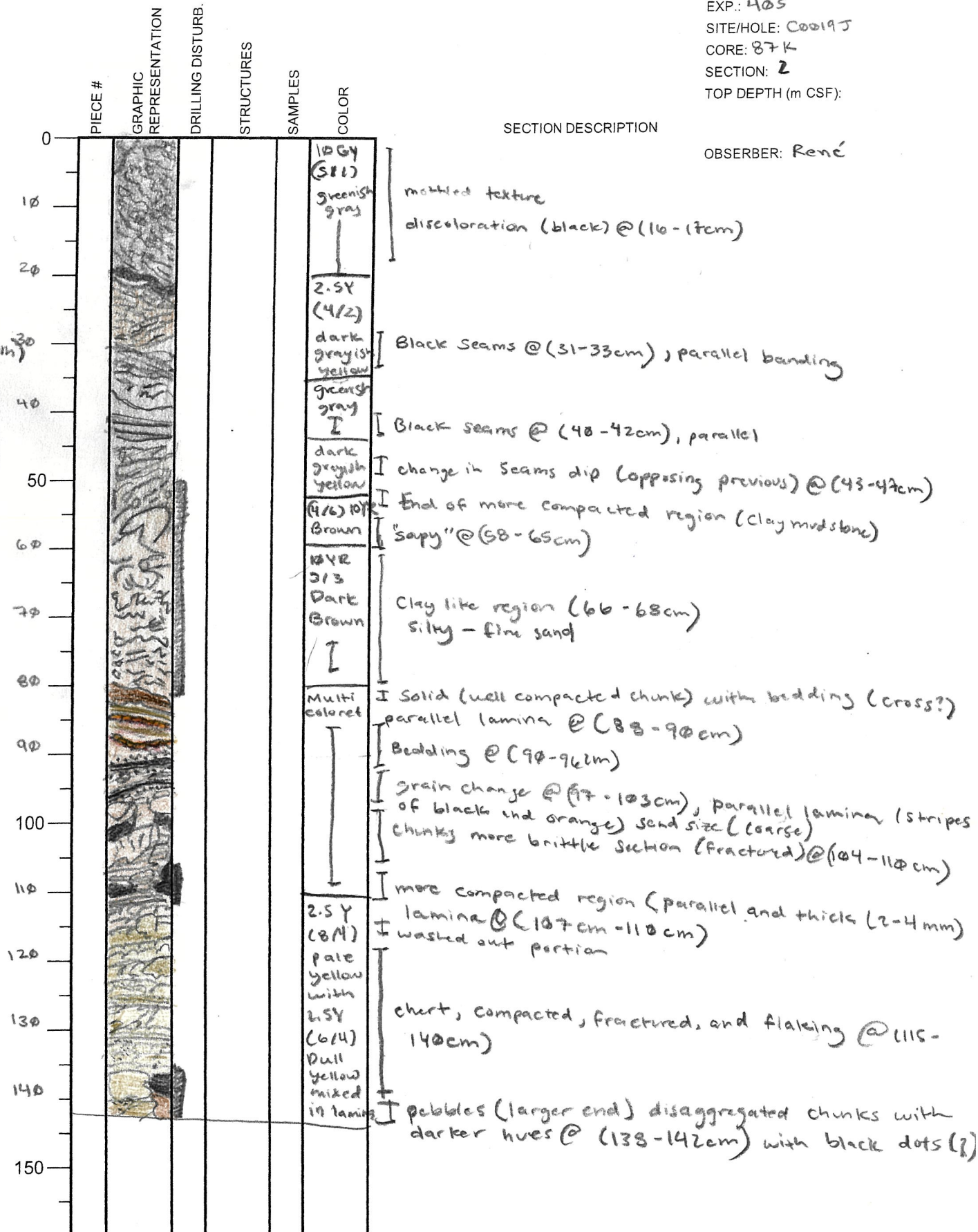
chert?



International Ocean Discovery Program

Visual Core Description

NO. 1
 DATE: 25/10/2024
 EXP.: 405
 SITE/HOLE: C0019J
 CORE: 87K
 SECTION: 2
 TOP DEPTH (m CSF):

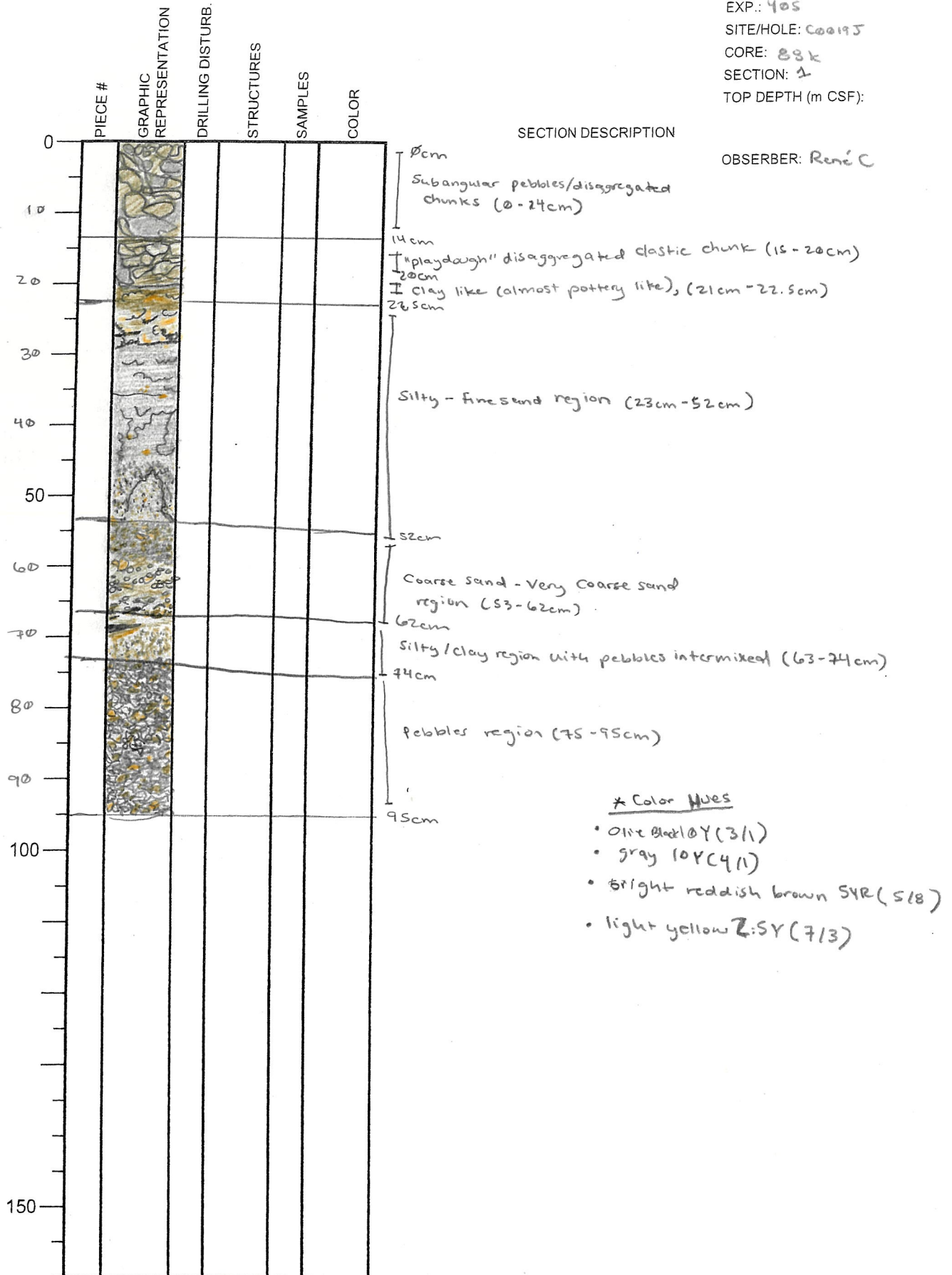


OBSERVER: René

International Ocean Discovery Program

Visual Core Description

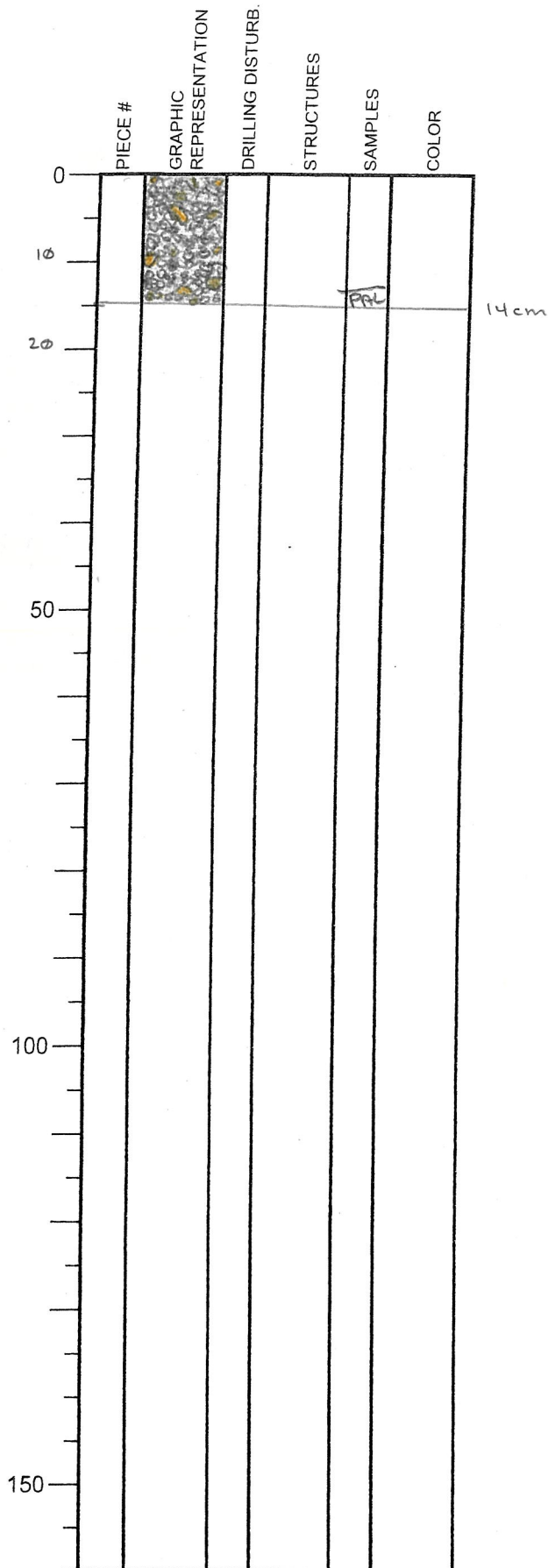
NO. 1
DATE: 24/10/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 88k
SECTION: 1
TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 24/10/2024
 EXP.: 405
 SITE/HOLE: C00195
 CORE: BBK
 SECTION: CC
 TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: René C

- * pebbles (subangular), Pal @ 13-14 cm
- color hues
- Olive Black 10Y(3/1)
- gray 10Y(4/1)
- bright reddish brown 5Y3(5/8)
- light yellow 2.5Y(7/3)