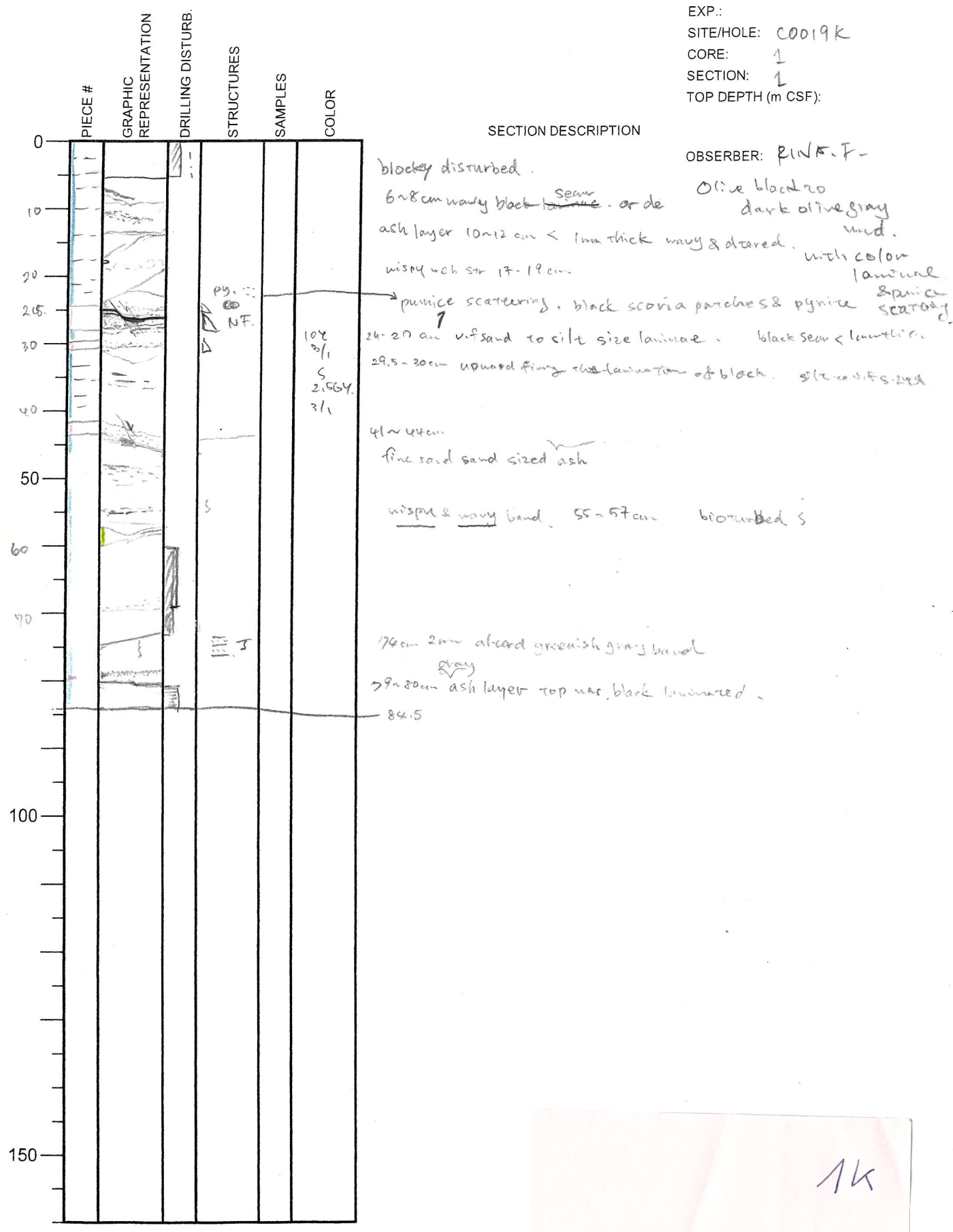


J

International Ocean Discovery Program Visual Core Description

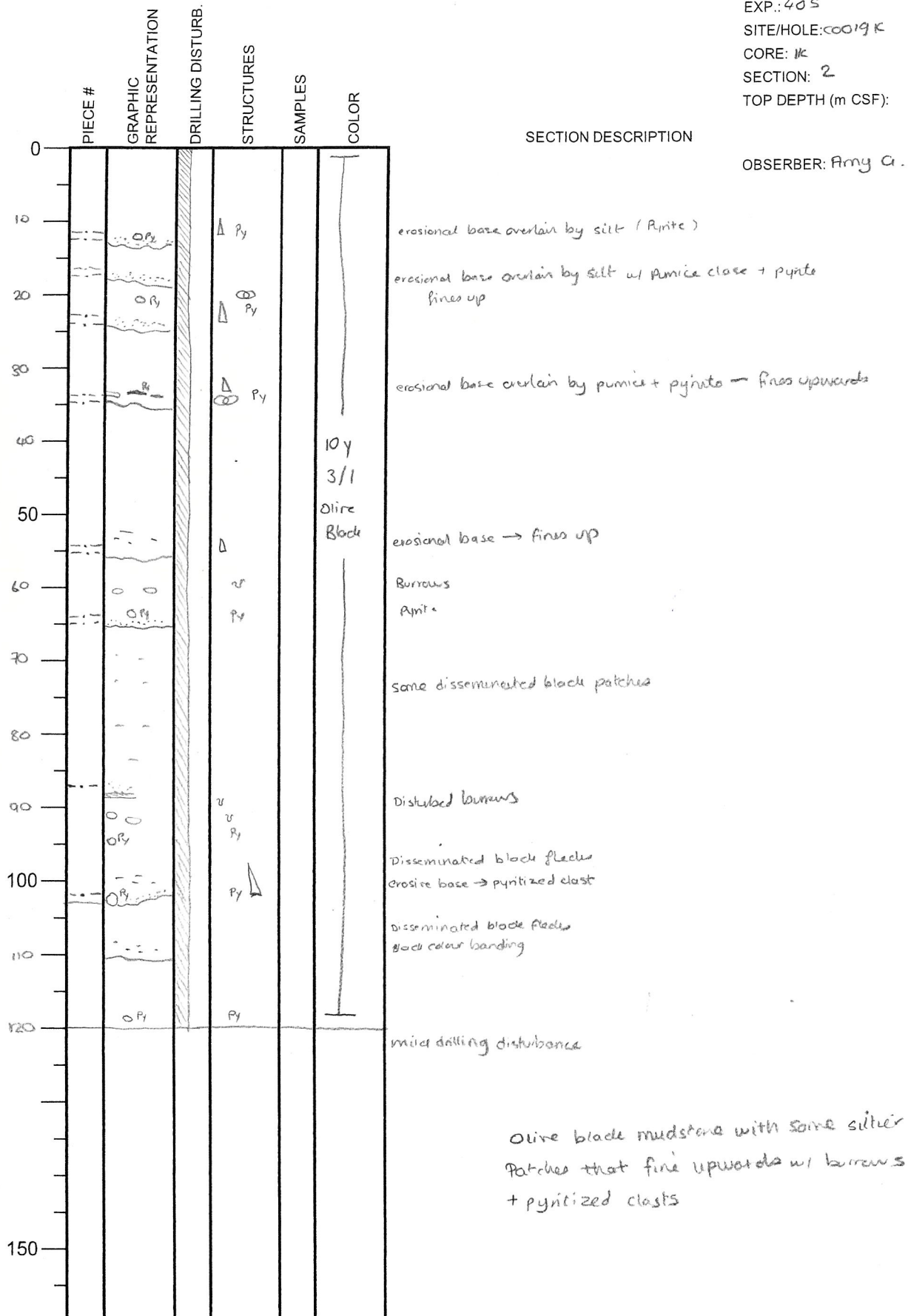
NO.
DATE: 27/10/20 24
EXP.:
SITE/HOLE: C0019K
CORE: 1
SECTION: 1
TOP DEPTH (m CSF):



International Ocean Discovery Program

Visual Core Description

NO. 2
 DATE: 27/10/2024
 EXP.: 40 S
 SITE/HOLE: C0019 K
 CORE: 1K
 SECTION: 2
 TOP DEPTH (m CSF):



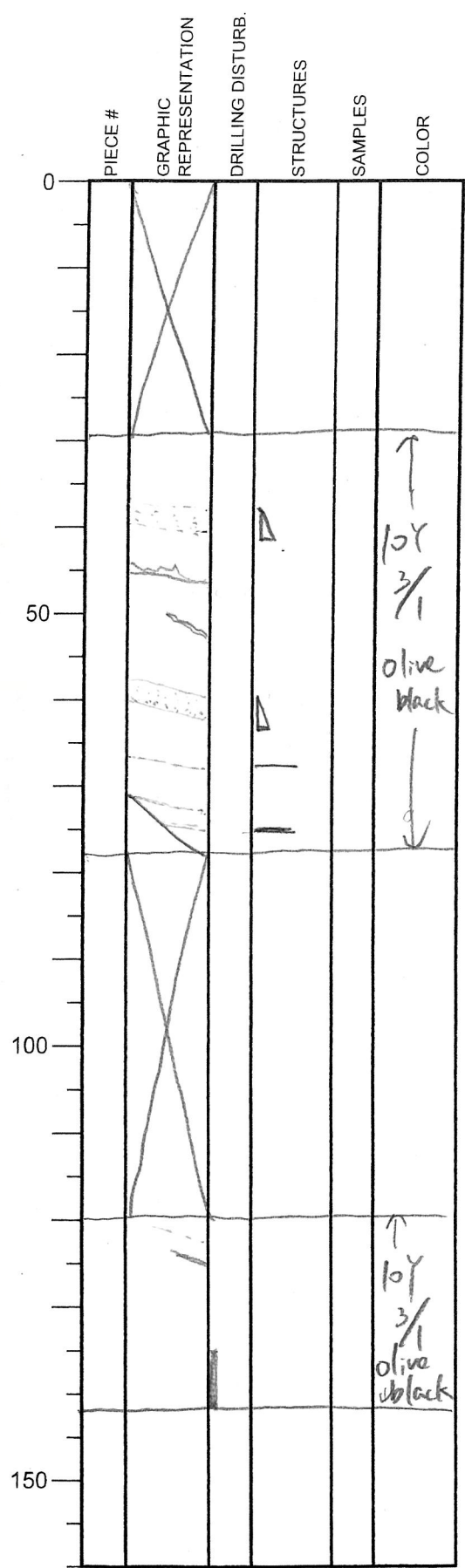
J

International Ocean Discovery Program Visual Core Description

NO.
DATE 27/10/2024
EXP.: 405
SITE/HOLE: S0019K
CORE: 1K
SECTION: 3
TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: AY.



36-39 cm: vfs to siltstone

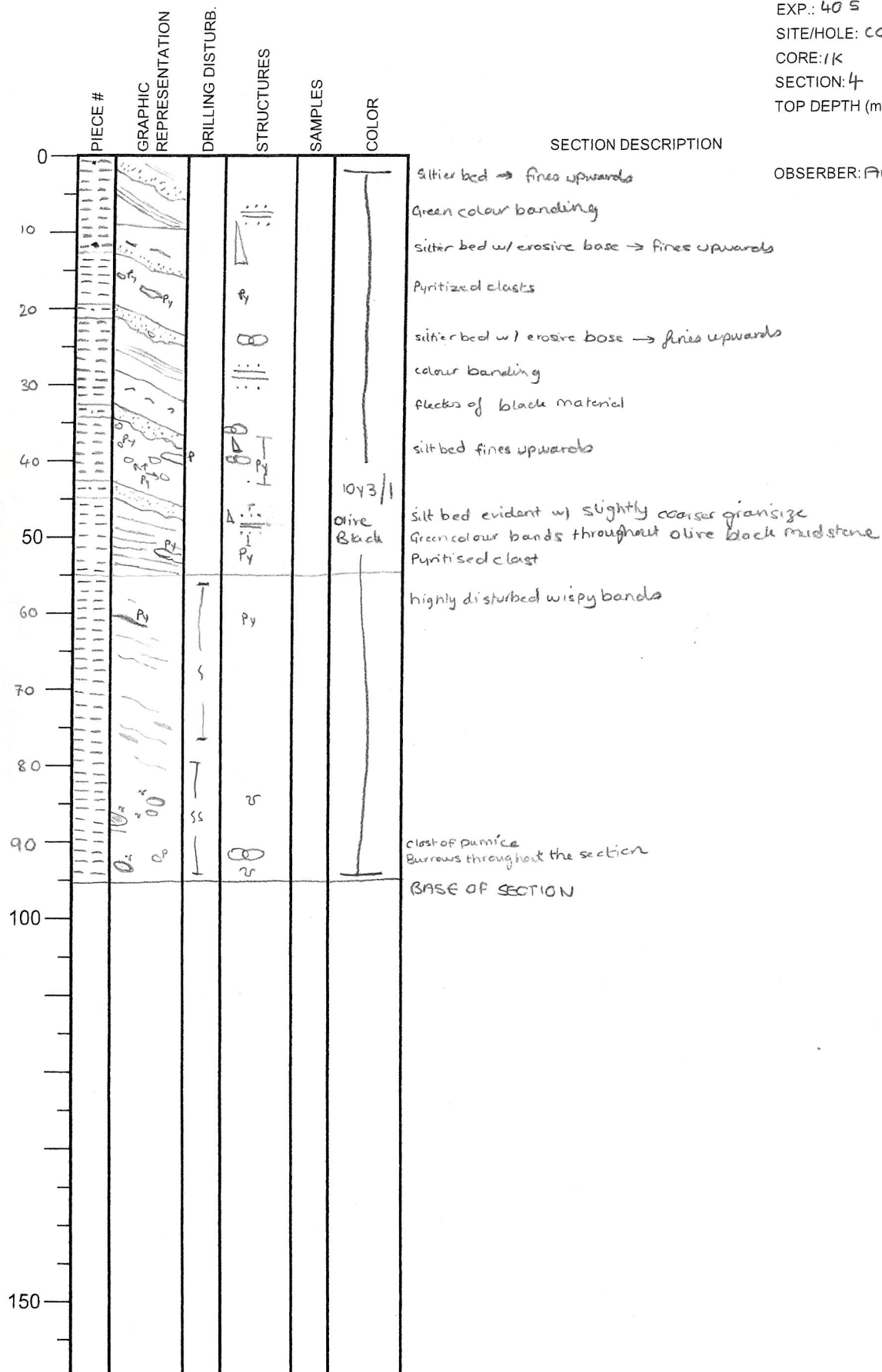
56-60 cm: graded very fine sandstone to siltstone

Other part: clayey siltstone
with gently dipping beddings

International Ocean Discovery Program Visual Core Description

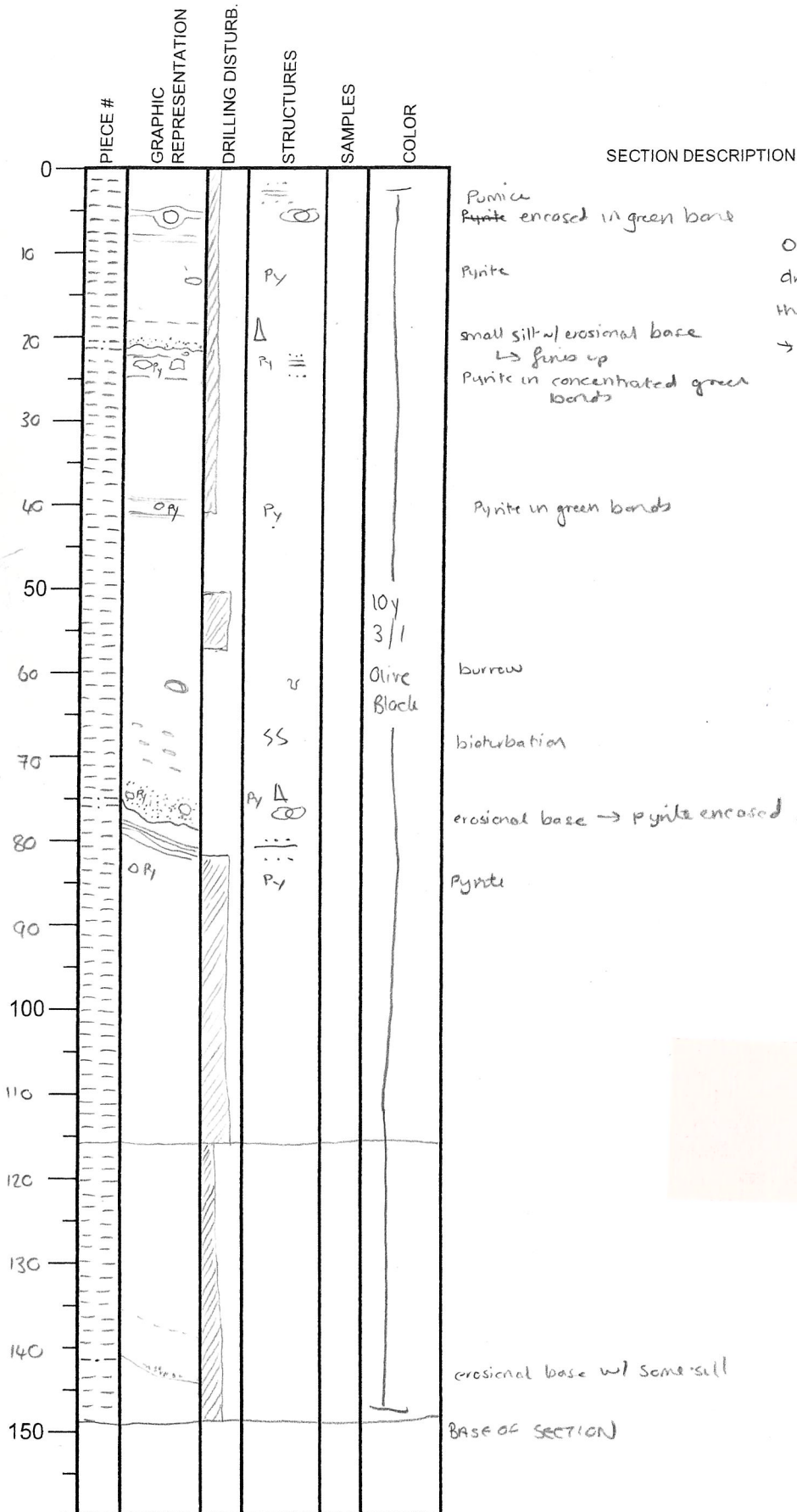
NO. 4
DATE: 27/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 1K
SECTION: 4
TOP DEPTH (m CSF):

OBSERVER: Amy Gowan



International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 27 / 10 / 20 24
EXP.: 405
SITE/HOLE: 0009g.k
CORE: Zk
SECTION: 1
TOP DEPTH (m CSF):



OBSERVER: Amy

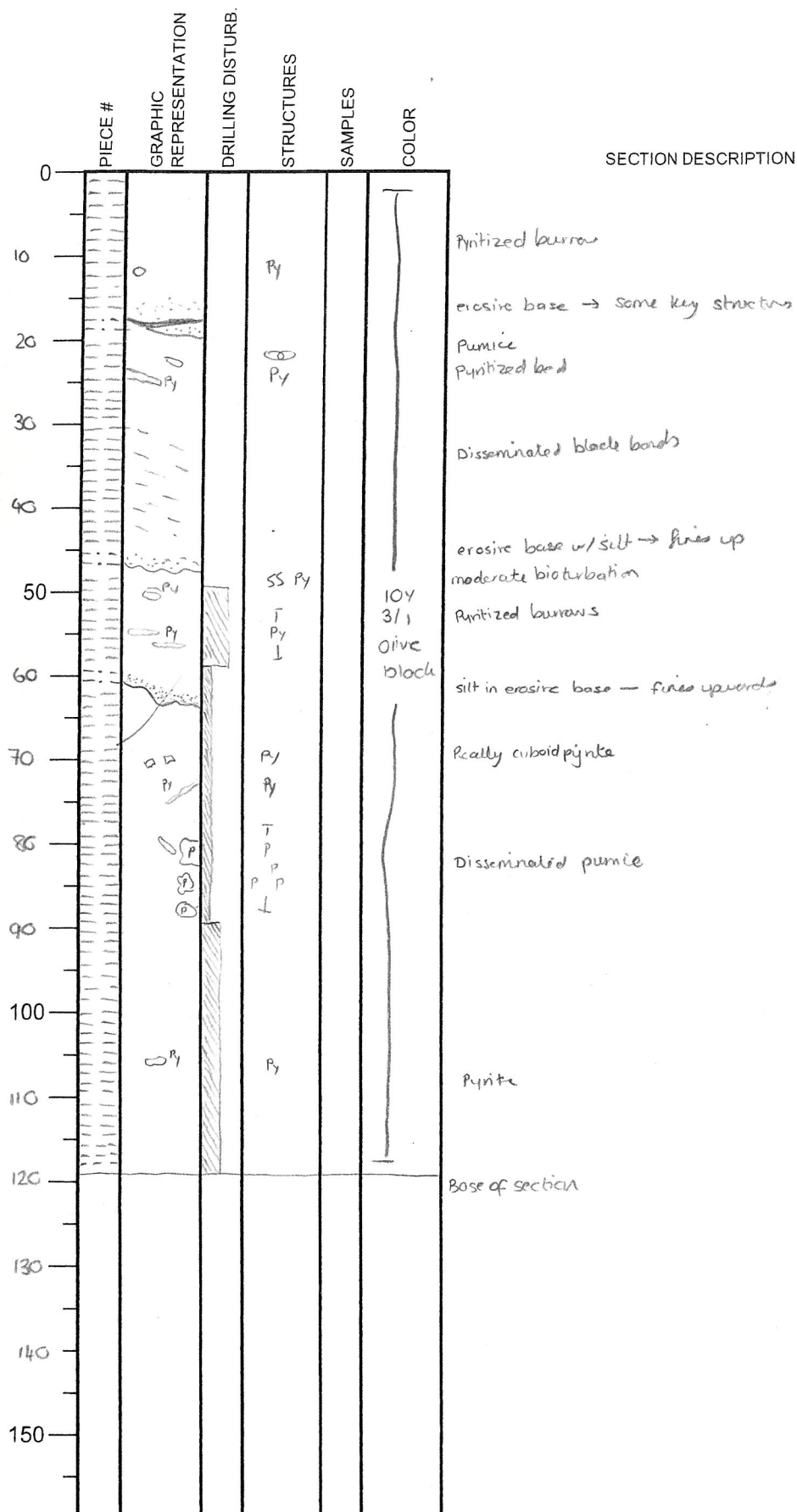
Olive black mudstone - lots
drilling disturbed overprinting
the structures
→ disseminated pyrite + burrows

2k

J

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 27 / 10 / 2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 2K
SECTION: 2
TOP DEPTH (m CSF):



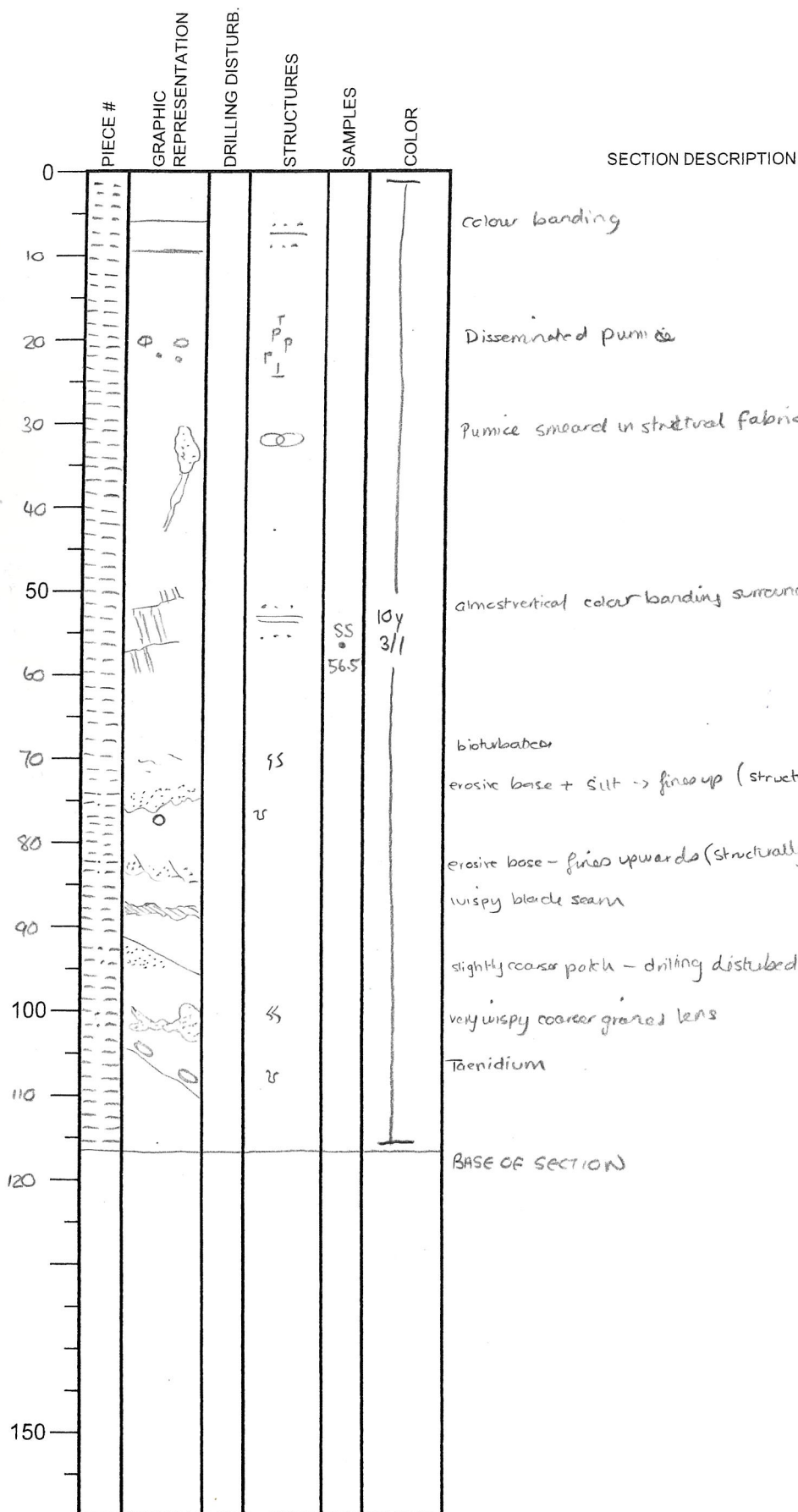
OBSERVER: Amy G.

Olive black mudstone
→ small turbidity currents
→ burrows
→ scattered pumice +
Pyrite

J

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 27/10/2024
EXP.: C0019K 40 S
SITE/HOLE: C0019K
CORE: 2K
SECTION: 3
TOP DEPTH (m CSF):



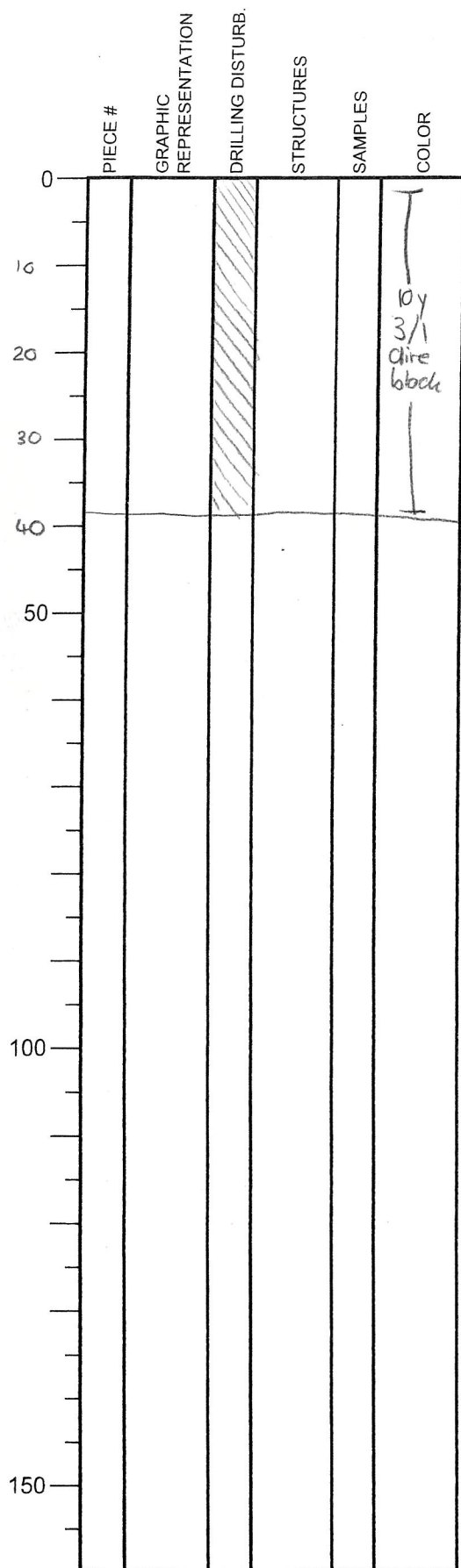
OBSERVER: Amy G

Olive black mudstone
w/ some bioturbation
disseminated pumice
+ small turbidites
+ green colour banding

J

International Ocean Discovery Program Visual Core Description

NO. 4
DATE: 27/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 2K
SECTION: CC
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Amy G

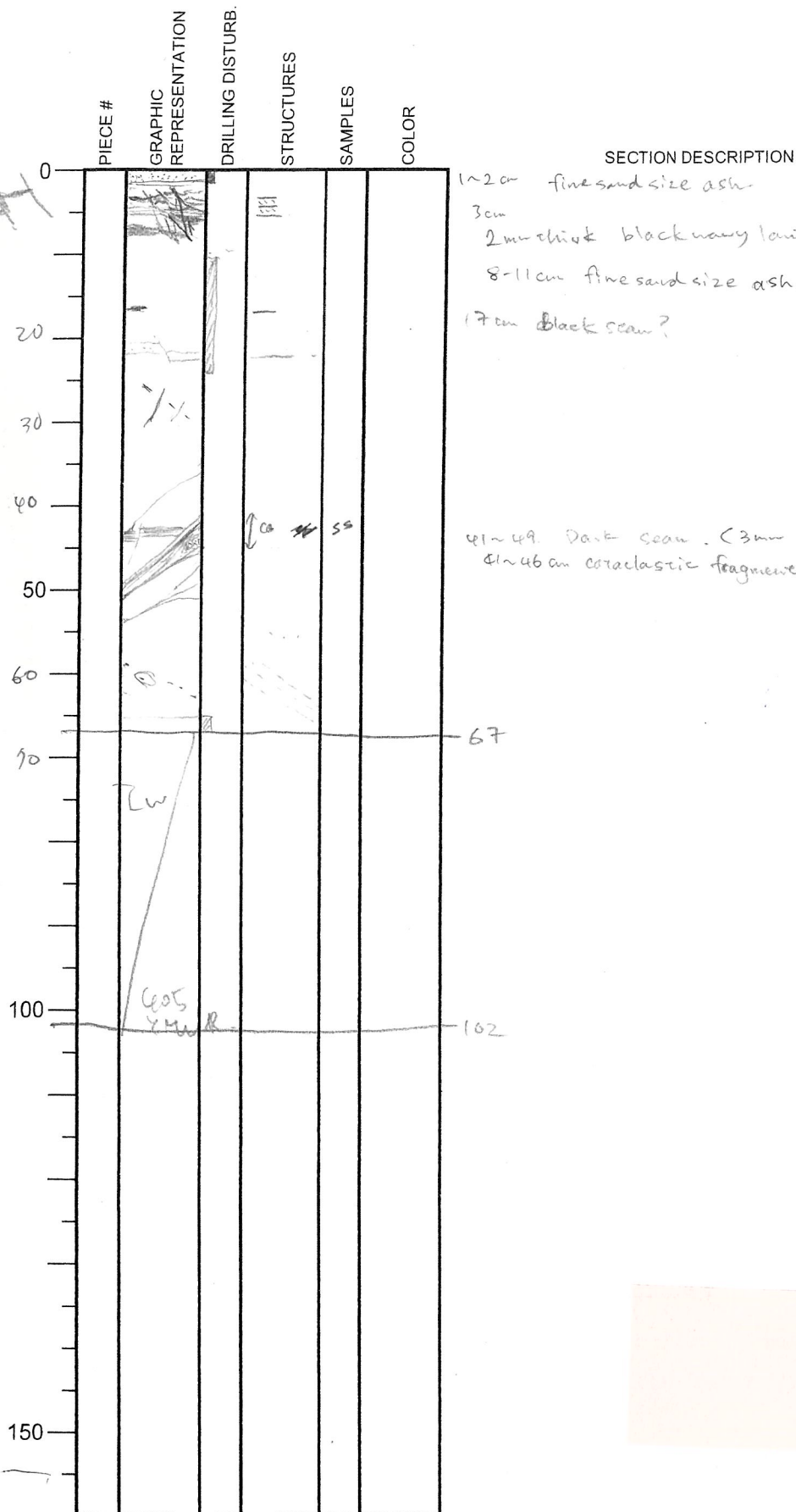
olive black mudstone - heavily disturbed

J

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 27/10/20
EXP.: 405
SITE/HOLE: C0019K
CORE: 3K
SECTION: 1
TOP DEPTH (m CSF):

OBSERVER: RINA.F.



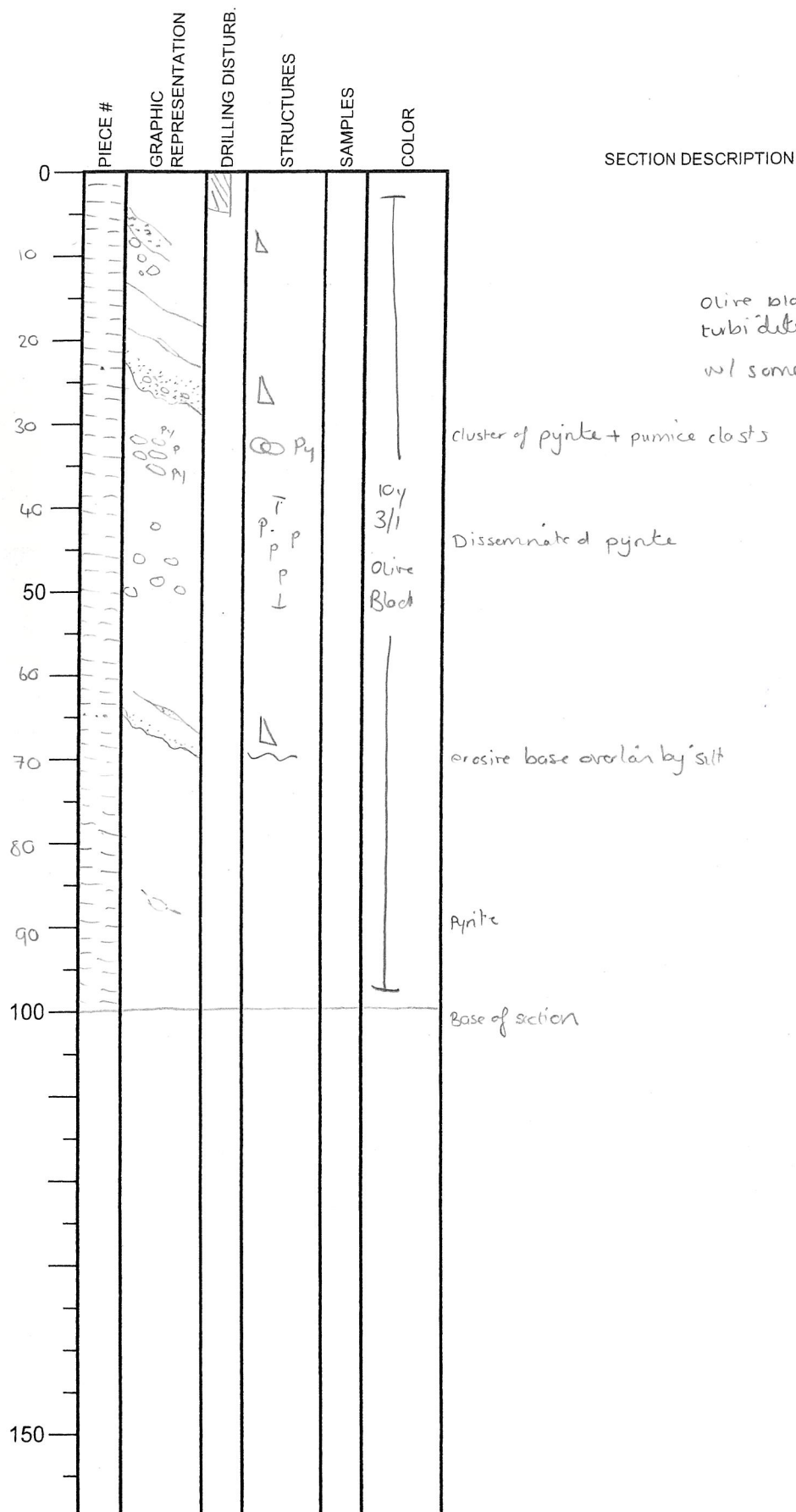
3K

International Ocean Discovery Program Visual Core Description

J

NO.
DATE: 27/10/2024
EXP.: 405
SITE/HOLE: 600 PK
CORE: 3K
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER: Amy

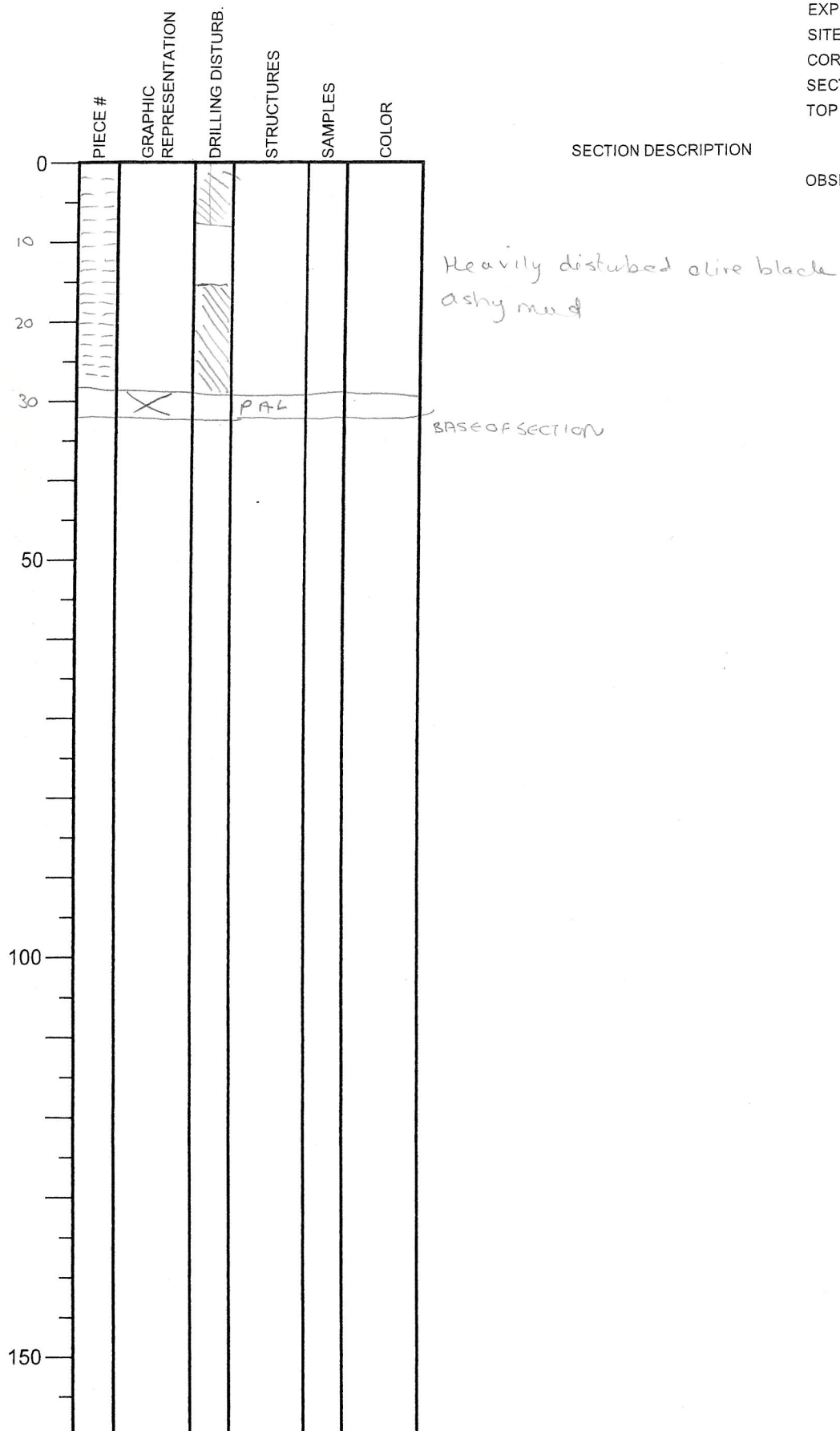


J

International Ocean Discovery Program Visual Core Description

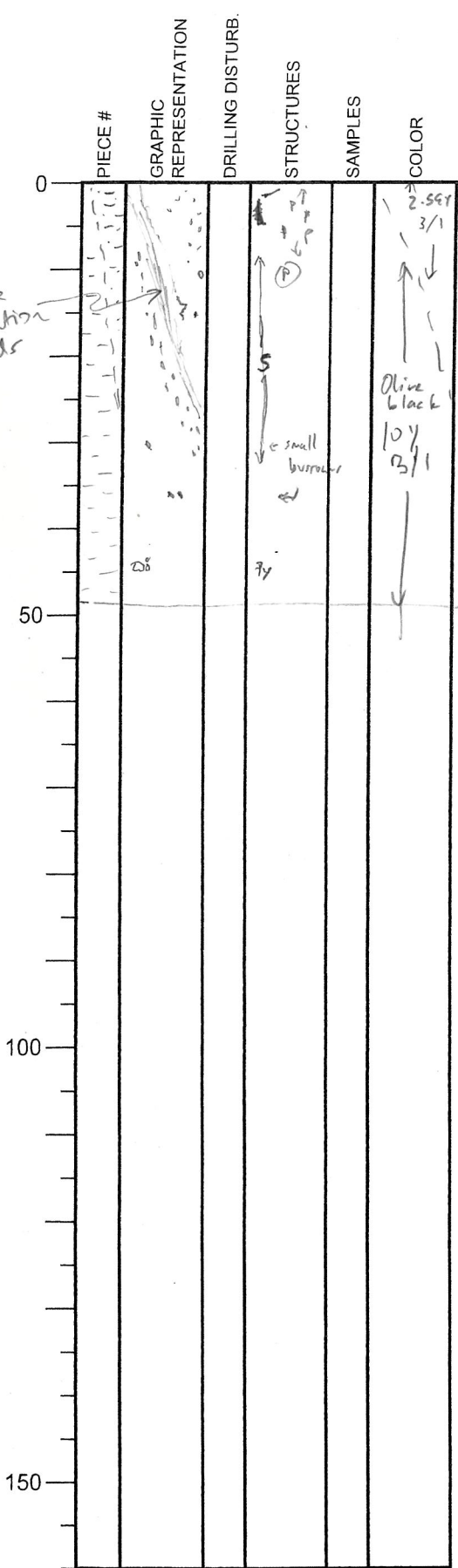
NO. 3
DATE: 27/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 3k
SECTION: C
TOP DEPTH (m CSF):

OBSERVER: Amy G



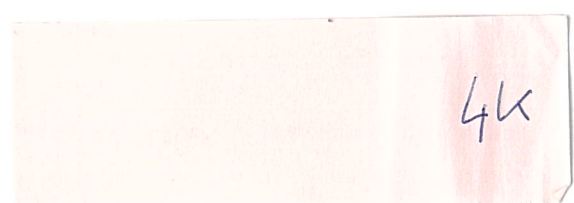
International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 27/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 4K
SECTION: 1
TOP DEPTH (m CSF): 828.5



SECTION DESCRIPTION

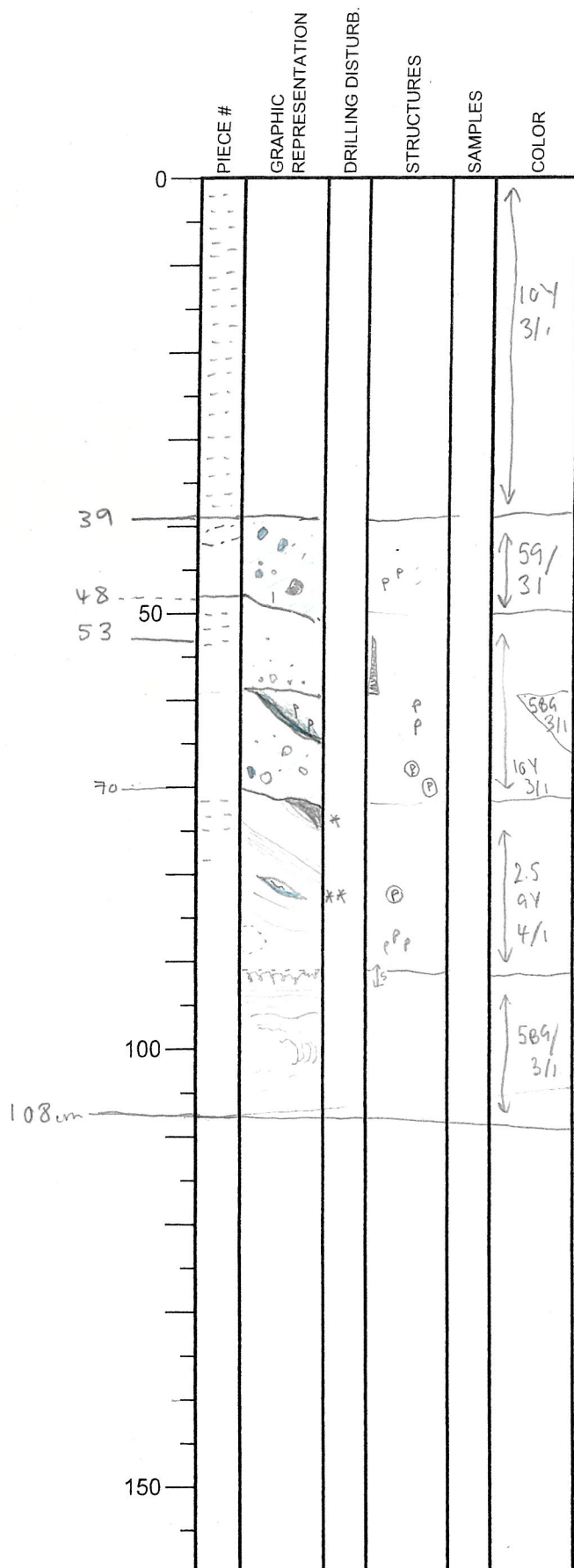
normal grading but overturned sand to silt grade bed, slightly convoluted. dark olive gray. OBSERVER: M. Nicholson.



Olive black mudstone with steeply inclined (overturned) bedding, minor pyrite + bioturbation.

International Ocean Discovery Program Visual Core Description

NO.
DATE: 27/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 4K
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

0-39 = Olive black (10Y 3/1)
(same as section 1)
Sharp Lower contact

OBSERVER: C. PIZER

39-48 = Coarse-grained unit with dispersed pumice clasts,
some altered (green/blue) + one visible black
(pyrite?)

sharp lower contact

48-71 = olive black, upwards grading from mixed
larger grains @ base to none @ top.
Large grains @ base = dispersed pumice, some
altered (green), some not (beige)

58-63 = Angular, blue/gray block (dark
siliceous greenish gray - 10Y 4/1), darker @ base
ASH. SAME AS LOWEST UNIT

71-92 = olive black, abundance of larger grains
higher @ base, none @ top.

- @ 72 * olive gray (2.5Y 6/1) lens, lighter in color

- @ 82 ** Dark greenish gray (5Y 3/1) lenticular band
with coarser grains (sand), darker color.

- Band of wavy dark laminae ~ 79 cm and
throughout.

- Lower contact is disrupted by bioturbation
(very small burrows)

92-108 = Dark blueish gray (5B 3/1) clastic
Frequent, thin (mm) wavy laminations of
lighter + darker, occasionally overturned
Few green/black clasts (2mm) - pumice?
* PRIMARILY ASH + SILICEOUS MATERIAL

Overall = mixture of standard olive black
units and coarser units with large
dispersed pumices + blocks of ash

International Ocean Discovery Program Visual Core Description

NO.
DATE: 27/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 4K
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
1					
2					
3					
4					
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6					
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150					

SECTION DESCRIPTION

0-21 Dark blueish gray
-SILICEOUS ASH
very thin 4mm wavy laminations
throughout, overturned in places (faults + folds)

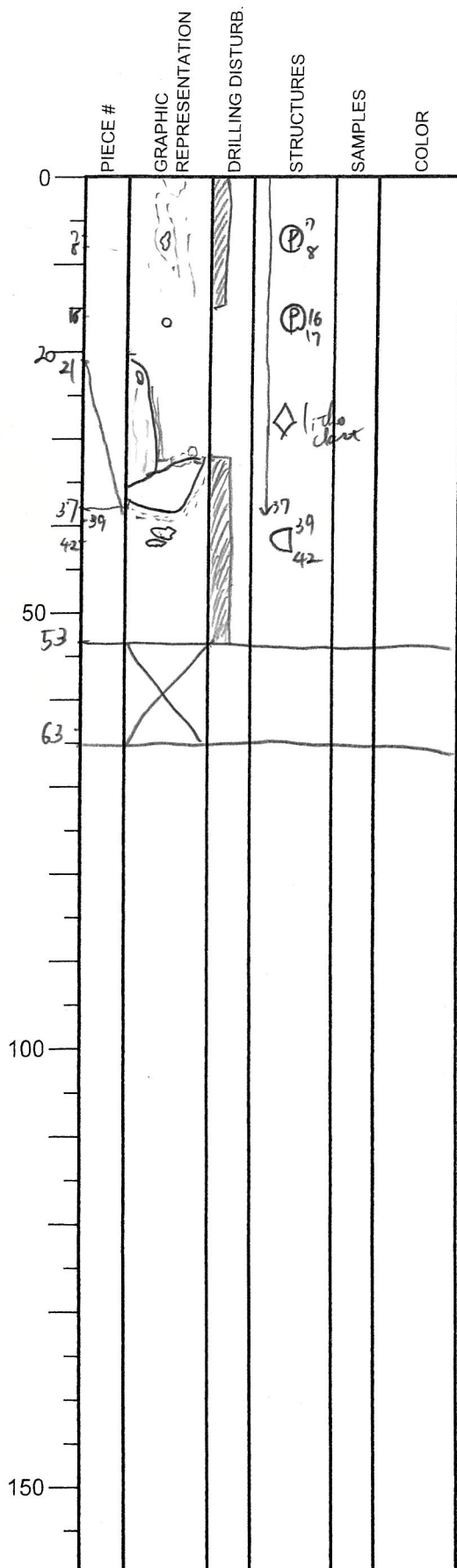
OBSERVER: C. PIZER

SBA
3/1

J

International Ocean Discovery Program Visual Core Description

NO.
DATE: 27/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 5K
SECTION: 1
TOP DEPTH (m BSF): 830.5



SECTION DESCRIPTION

OBSERVER: Asuka

0-37 cm: 7.5Y4/1 dark greenish gray mudstone.

21-53 cm: 7.5Y3/1 olive black mudstone with very fine sand.

39-42 cm: 7.5Y4/1 ash patch.

5K

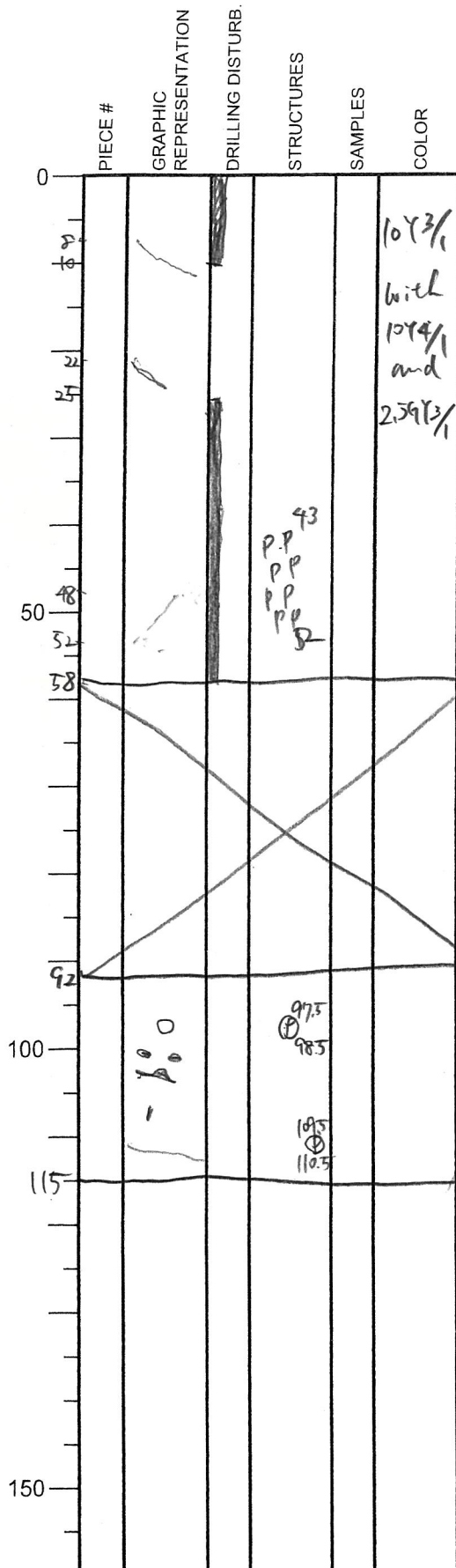
J

International Ocean Discovery Program Visual Core Description

NO.
DATE: 27/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 5K
SECTION: 2
TOP DEPTH (m CSF): 831.13

SECTION DESCRIPTION

OBSERVER: Asuka



greenish bands at 8-10, 22-25 cm
(2.5Y3/1)

43-52 cm: pumice scattering

Olive black mudstone
with inclined layers and patches
of greenish and dark material.

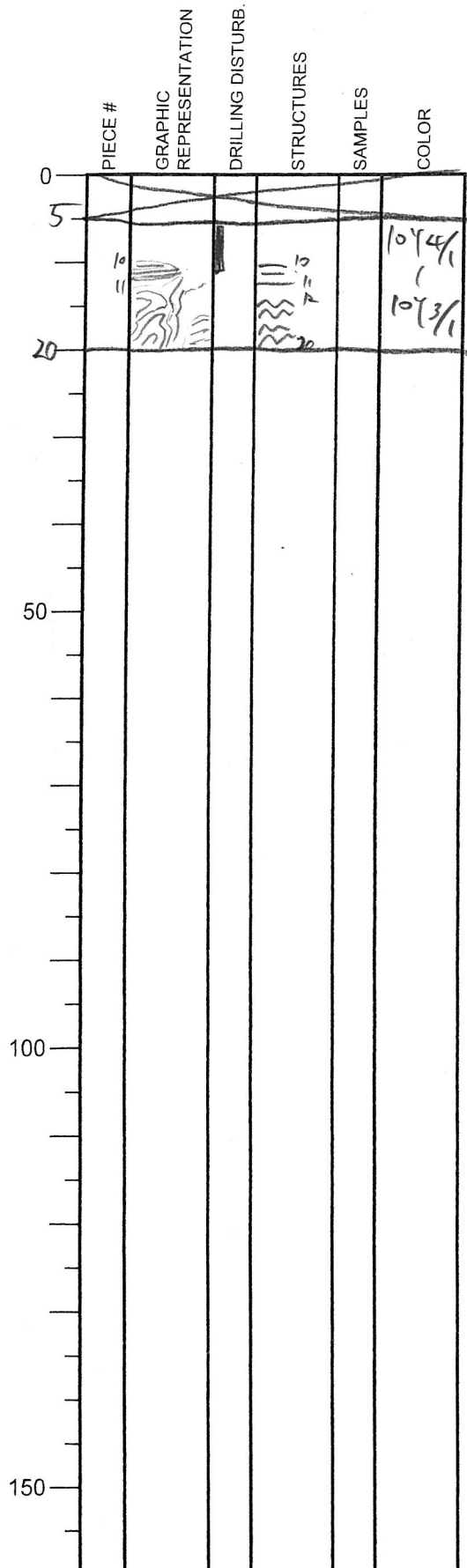
dark patches at 99-100, 101-102 cm
(10Y2/1)

greenish patch at 108-109 cm
(2.5Y3/1)

J

International Ocean Discovery Program Visual Core Description

NO.
DATE: 27/10/2024
EXP.: 405
SITE/HOLE: 60019K
CORE: 5K
SECTION: CC
TOP DEPTH (m CSF): 832.28



SECTION DESCRIPTION

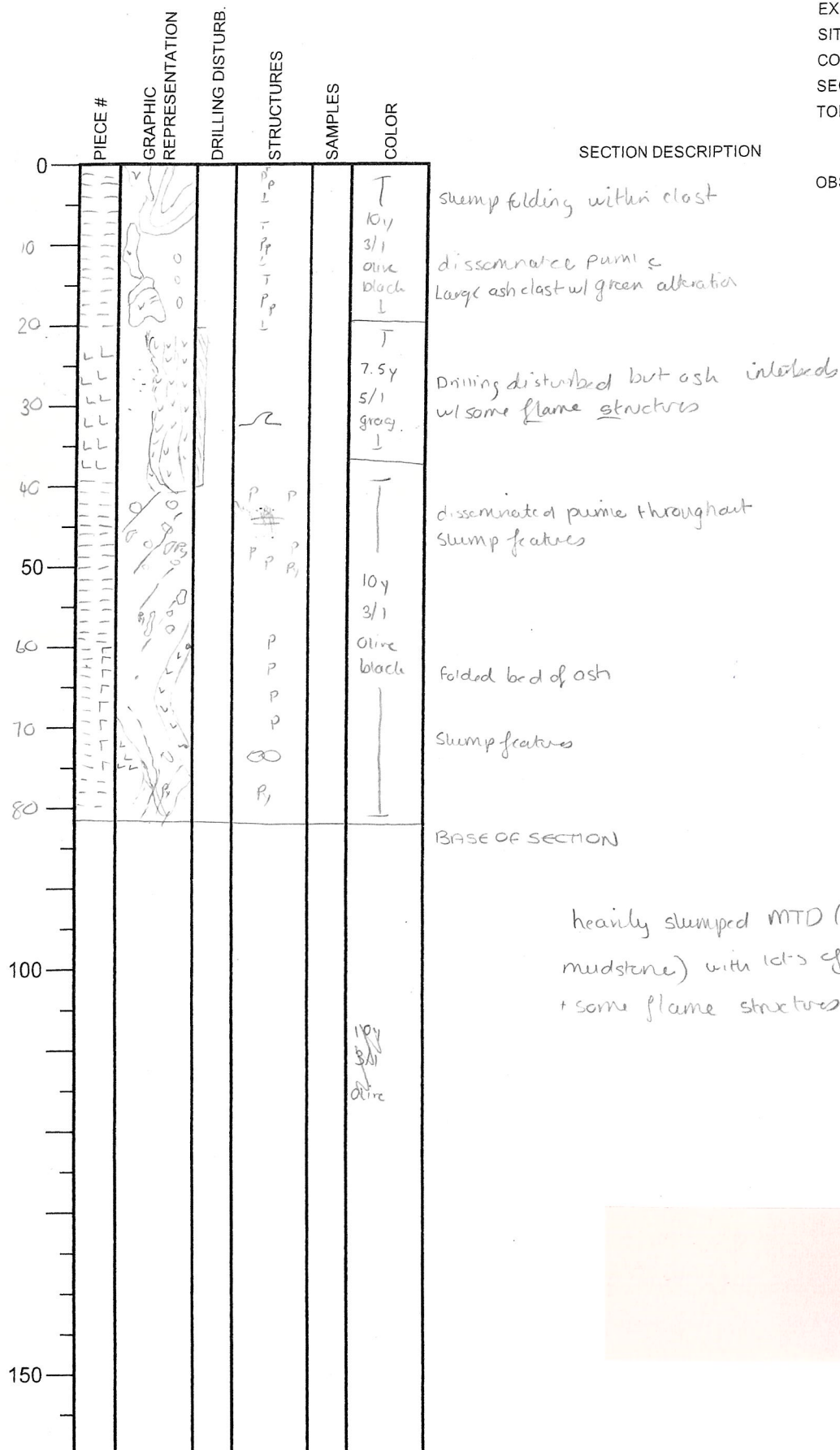
OBSERVER: Asuka

10Y4/1 - 10Y3/1 mudstone
subparallel and chaotically folded
(10-11cm)
laminations (12-20cm)

J

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 28/10/2024
EXP.: 405
SITE/HOLE: 00019K
CORE: 6K
SECTION: 1
TOP DEPTH (m CSF):



OBSERVER: Amy G
+ Aruba

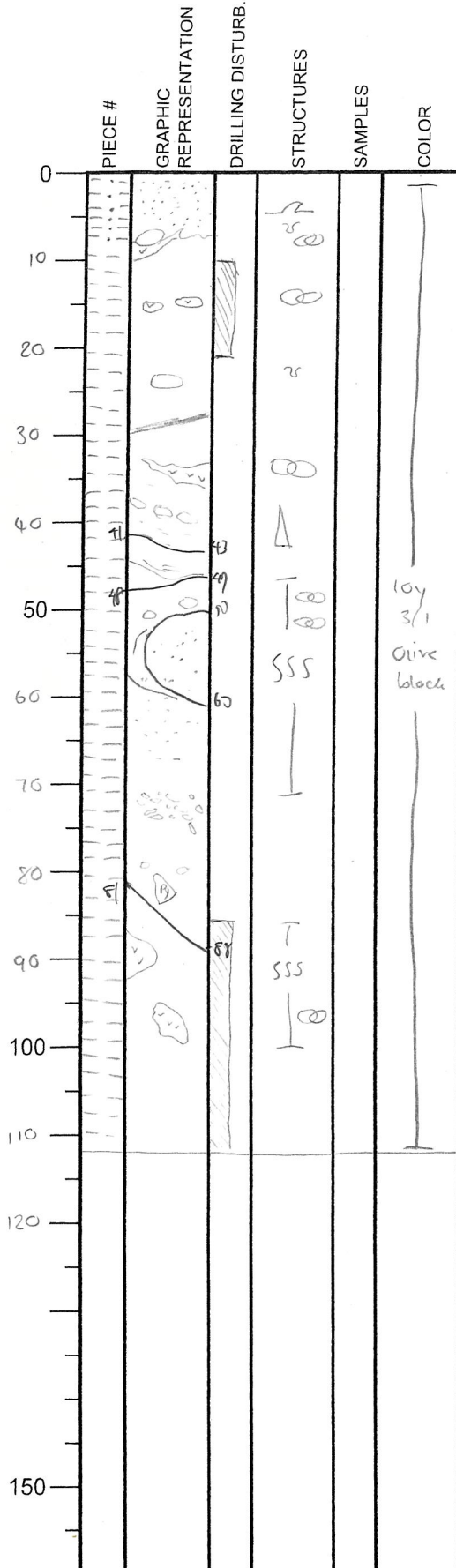
6K

J

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 28/10/2024
EXP.: 405
SITE/HOLE: C00191K
CORE: 6K
SECTION: 2
TOP DEPTH (m CSF):

last clay in



SECTION DESCRIPTION

OBSERVER: Amy Gough
+ Asuka

Slightly coarse
fine structure

volcanic pumice clasts evident

Burrow (planolites)
Black seams

Squashed pumice in MTD
→ PALW from 39cm (horiz)

proxic base overlain by silt - fines upwards

41-48cm: block of gray mudstone (10Y4/1)

50-60cm: block of gray mudstone (7.5Y4/1)

Disseminated ash throughout

lots of bioturbation - simple straight small untried
burrows → no idea of ichnofacies

lots of large pumice clasts

BASE OF SECTION

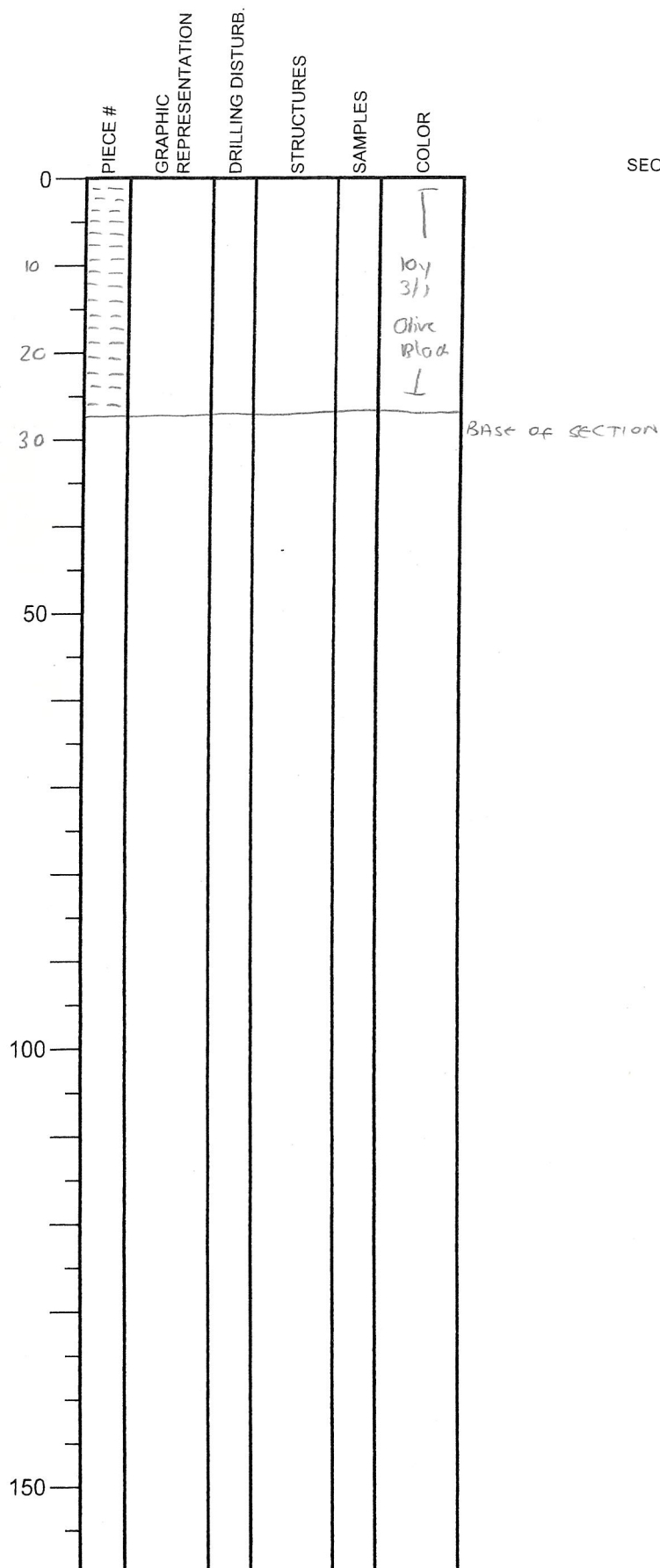
olive black mudstone w/ abundant
ash weathered to clays in a large
slumped MTD - heavily
bioturbated areas

PALW
from 54cm
(block)

5

TOP DEPTH (m CSF):

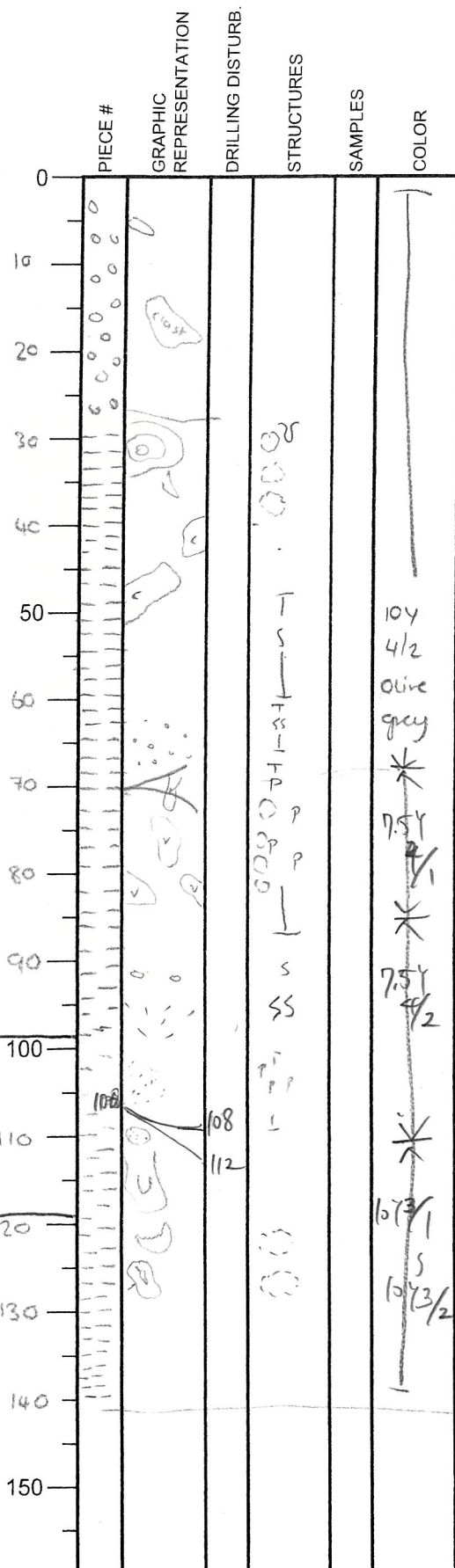
heavily disturbed drilling mud



J

International Ocean Discovery Program Visual Core Description

NO. 1
DATE: 28/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 7K
SECTION: 1
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Amy + Asuka

Grey-green ashy mudstone
LOTS of convoluted bedding
+ slumping

Block in matrix
texture

highly indurated pumice clast w/ green + red alteration

Bioturbation

Lots of disseminated pumice
→ also likely burrowed

blocky - possible bioturbation

Disseminated pumice

convolute bedding
mottled

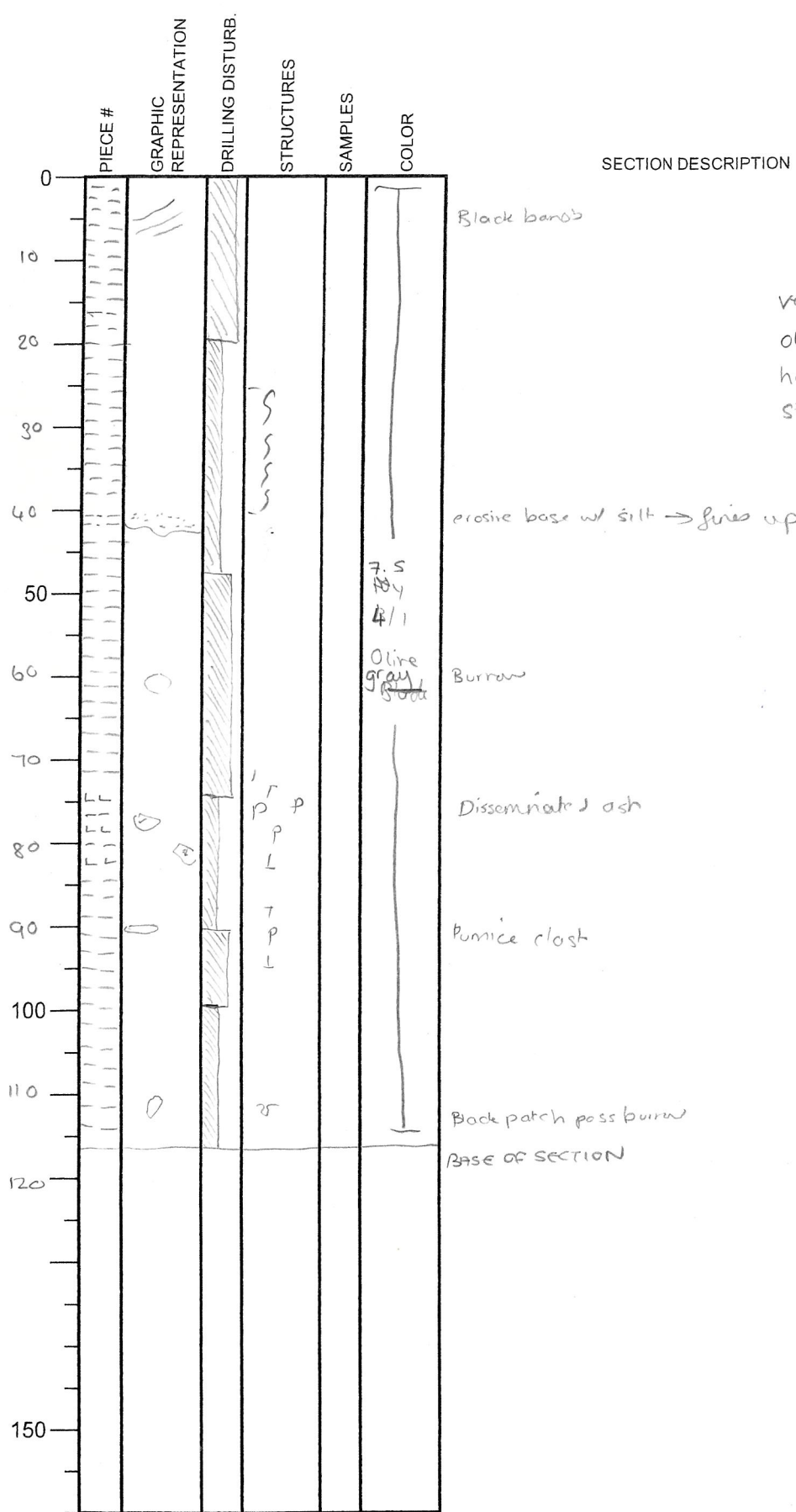
gray
mudstone
PALW from 99cm

black
mudstone
PALW from 119cm

J

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 28/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 7K
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Amy + Asuka

very disturbed -
olive gray mudstone
hard to see clear sedimentary
structures

erosive base w/ silt -> fines upwards

Burrow

Disseminated ash

pumice clast

Black patch poss burrow

BASE OF SECTION

J

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 1 / 20
EXP.: 405
SITE/HOLE: 00019K
CORE: 7K
SECTION: CC
TOP DEPTH (m CSF):

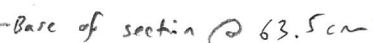
	PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0							
10							wispy green bands
20						7. SY 4/1	silt laminae
30							green altered patches
40							Olive grey mudstone → convolute bedding
50							
100							
150							

OBSERVER: Amy

Base of section

TOP DEPTH (m CSF):

SECTION DESCRIPTION



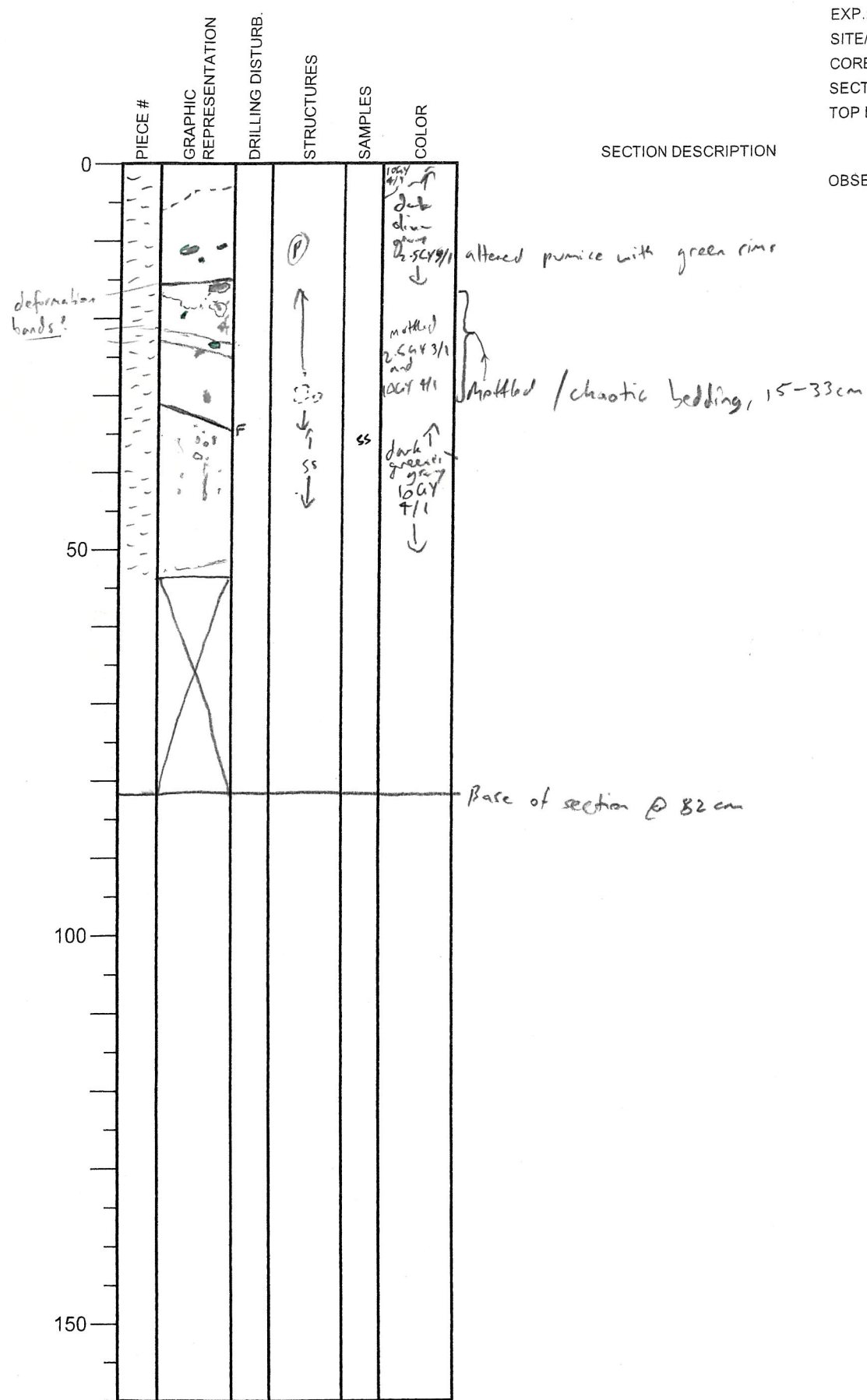
84

5

International Ocean Discovery Program Visual Core Description

NO. 2
DATE: 28/10/2024
EXP.: 405
SITE/HOLE: C0019J
CORE: 8K
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER: U. Nicholson

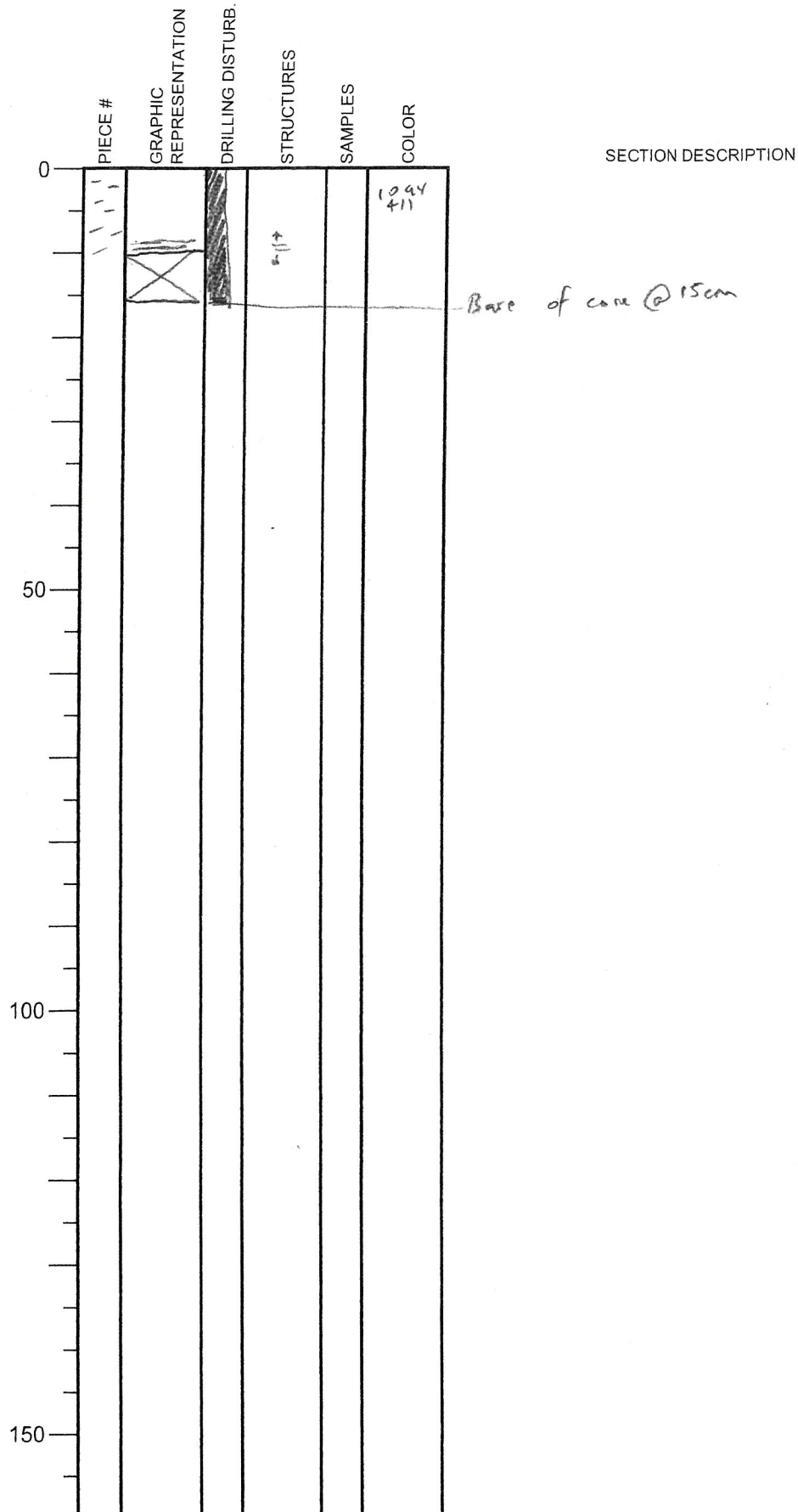


J

International Ocean Discovery Program Visual Core Description

NO. 3
DATE: 28/01/2024
EXP.: 405
SITE/HOLE: C00195
CORE: 8K
SECTION: CC
TOP DEPTH (m CSF):

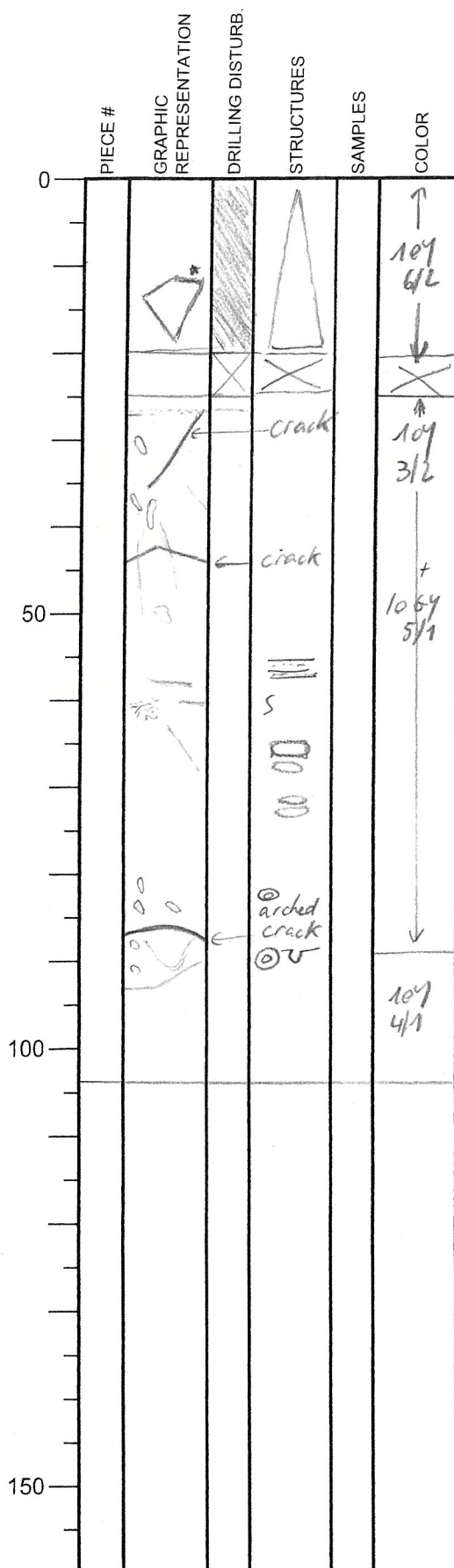
OBSERVER: U. Nicholson



International Ocean Discovery Program Visual Core Description

5

NO.
DATE: 28/10/20
EXP.: 405
SITE/HOLE: C0019
CORE: 9k
SECTION: 1
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Jorgane + Piero

- From 0 to 21 cm:
 - ↳ 100% coring disturbance
 - ↳ Normal grading: coarse sd → silt
 - ↳ 109 6/2
 - ↳ *piece of mudstone 109 3/2 (olive black)
- From 25 to 105 cm:
 - ↳ Background brownish 109 3/2 = mudstone
 - ↳ 'marble' 'potted?' → greenish colour 1064 5/1 → due to oxidation.
 - ↳ burrows filled with cokes
 - ↳ colour banding
 - ↳ light disturbance
 - ↳ lots of bisulphite (yellow!)
 - ↳ Scattered pumices
 - ↳ burrows filled with ashes.
 - ↳ Load structure = dark greenish (organic matter?)
 - ↳ colour change: irregular limit & deformed
- From 91 to 105 cm
 - ↳ mudstone with different colour.
- 105 cm.

9k

International Ocean Discovery Program Visual Core Description

NO.
DATE: 29/10/2024
EXP.: 405
SITE/HOLE: C0019
CORE: 9K
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER: Jorgau

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					104 4/2
					54 4/2
50					54 4/2
					104 3/2
100					
150					

SECTION DESCRIPTION

From 0 to 11 cm:

- x mudstone 104 4/1
- x pumice

From 11 - 50 cm: colour change (sharp)

- x fractured mudstone
- x 12-13cm: 1cm. colour banding (754 2/1) - laminated. darker (cm?)
- x sub-vertical fracture (27 cm - top)
- x scattered pumices
- x micro-fracturing (normal)
- x oblique colour-banding (23-15 cm: greenish → oxidation)
- x silt scattering
- x colour banding along the main fracture (oblique)
- x moderate bioturbation (dark)

x Highly fractured mudstone ↓

- x chlorite + laminations + ashes (green) → green rims. (whitish)
- x high bioturbation traces: burrows filled with ashes/pumices
- x highly destroyed/fractured until 76 cm. → biscuit.
- x lots of biscuits.

From 76 - 95 cm: less fractured

- x convoluted structure (dark 76?)
- x brownish mudstone (104 3/2)
- x Ash patch
- x Likely homogeneous mudstone, fractured (biscuit)
- x scattered pumices

95 cm = End of section

A red handwritten letter 'J' on a white background. The letter is formed with a single stroke, starting from the top left, curving down and to the right, and then curving back up and to the left to form a hook. The ink is a vibrant red color.

TOP DEPTH (m CSF):

709ane

SECTION DESCRIPTION
from 0-6 cm: TAL

From 6 - 21 cm : brownish mudstone (grayish olive)
 x fractured/bisants. (black dots on xcr)
 x oblique colour-banding $\rightarrow$ vein (xcr: high density dot $\rightarrow$ pyrite?)
 x Ash patches, deformed and superficial (swirls?)
 x oxidized clast
 21 cm: end of section.

J

International Ocean Discovery Program Visual Core Description

NO.
DATE 29/10/2024
EXP.: 405
SITE/HOLE: C0019
CORE: 10K
SECTION: 1
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0				1064 5/1	
50					
100					
150					

SECTION DESCRIPTION

From 0 - 20 cm:

- x Greenish gray mudstone, chaotic/mottled bedding?
- x micro-normal faults (un echelon) -> darker.
- x Deformation banding? Color banding
- x Greenish clasts: chlorite?

End of section @ 20cm.

OBSERVER: Jorgane

- 564 6/1 (olive gray)
- x scattered ~~pinches~~ ash patches
 - x pinkish consolidated ash highly deformed and oblique
 - high density Xcr layer
 - x scattered pinches (white dots on Xcr) -> LOTS

mottled

green alteration.
indurated

10K

NO.
DATE 29/10/2024
EXP.: 405
SITE/HOLE: C0019
CORE/OK
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER:

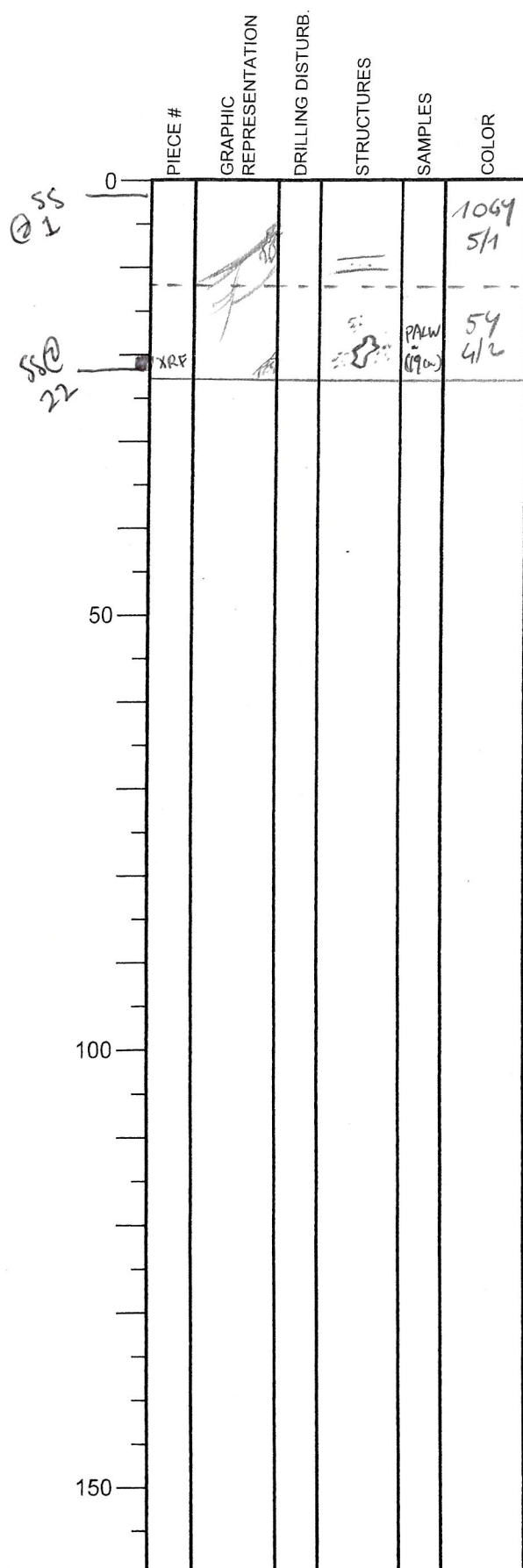
Norpare

From 0-23 cm

- Deformed ash layer @ 71010 cm.
- oblique colour bands / deformed bands? Veins?
- gradual colour change (greenish gray $\rightarrow$ grayish blue)
- Scattered pits
- 21-22 cm: deformed ash layer
- End of section @ 23 cm

NEXT PAGE $\rightarrow$
(225 - 33 cm)

- * Deformed clasts with darker edges (oxidised?)



International Ocean Discovery Program Visual Core Description

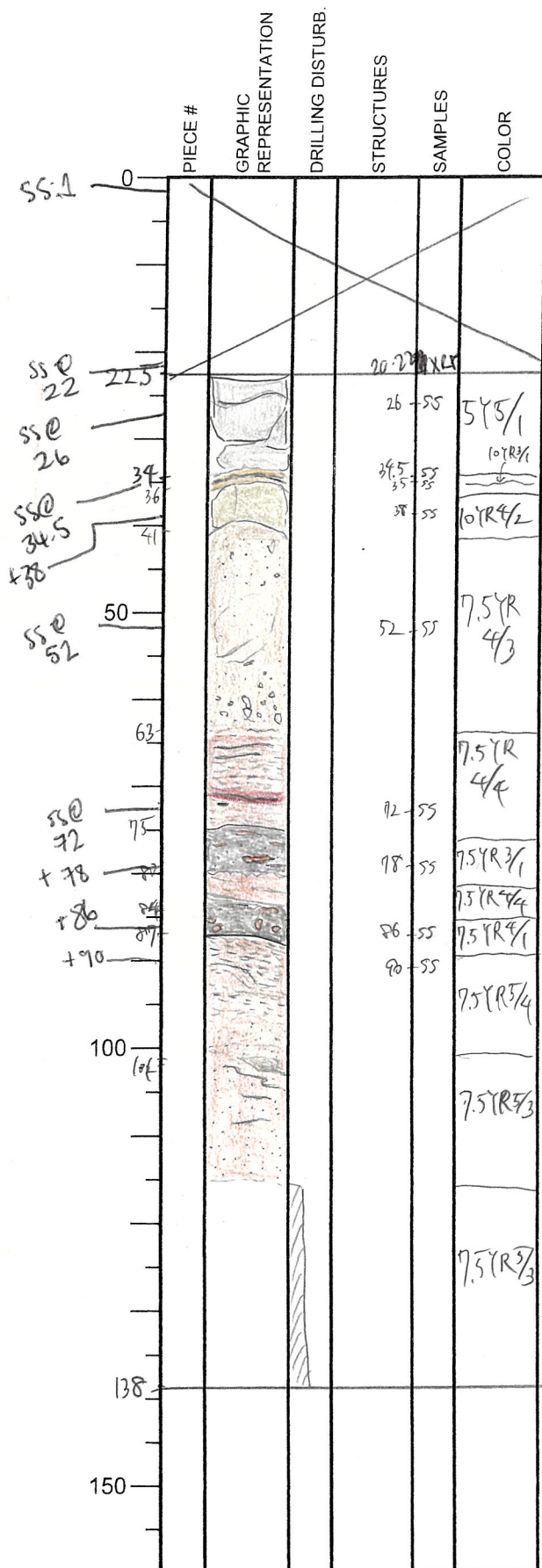
NO.
DATE 29/10/2024
EXP.: 405
SITE/HOLE: C00191K
CORE: 105
SECTION: 2
TOP DEPTH (m CSF): 845.83

SECTION DESCRIPTION

OBSERVER: Aruka

(0 - 23cm)

PREVIOUS PAGE ←



22.5 - 34 cm : 5Y 5/1 gray mudstone block

34 - 36 cm : 10YR 3/1 brownish black fault gouge surrounded by 7.5YR 5/3 dull brown mud.

36 - 41 cm : 10YR 4/2 grayish yellow brown mudstone block

41 - 63 cm : 7.5YR 4/3 brown brecciated mudstone including intact block

63 - 75 cm : 7.5YR 4/4 brown foliated siliceous clay with dark bands at 66, 67 and 70 cm ~ 1 cm-thick 5YR 4/4 dull reddish brown layer surrounding dark band at 70 cm.

75 - 80 cm : 7.5YR 3/1 brownish black zone

80 - 84 cm : including elongated clasts of brown siliceous clay

84 - 87 cm : 7.5YR 4/4 brown siliceous clay

87 - 101 cm : 7.5YR 4/1 brownish gray zone including subangular clasts of 7.5YR 4/4 clay

101 - 115 cm : 7.5YR 5/4 dull brown foliated mud with minor asymmetric folds.

115 - 138 cm : 7.5YR 5/3 dull brown brecciated mud. With 7.5YR 3/1 dark zones at 101 - 103, 103 - 105, 105, 108 - 109 cm

138 - 150 cm : covered with drill mud

22.5 - 34 cm : gray mudstone

34 - 63 cm : brown mudstone

63 - 87 cm : brown clay

87 - 138 cm : brown mud

J

International Ocean Discovery Program Visual Core Description

NO.
DATE: 29/10/2024
EXP.: 405
SITE/HOLE: C0013
CORE: 10K
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
		?	@	SS	10YR 4/2 others
50					
100					
150					

SECTION DESCRIPTION

From 0-5cm: PAL
From 5-17.5cm: CLAY
a highly chaotic, mixing of clays (grayish/10YR
yellow/4/2
a coring disturbance?
brown/4/2
End of section @ 17.5cm.

OBSERVER: Tjorgane
dull / 7.5YR
orange / 7/3
+
orange 7.5YR
6/6

J

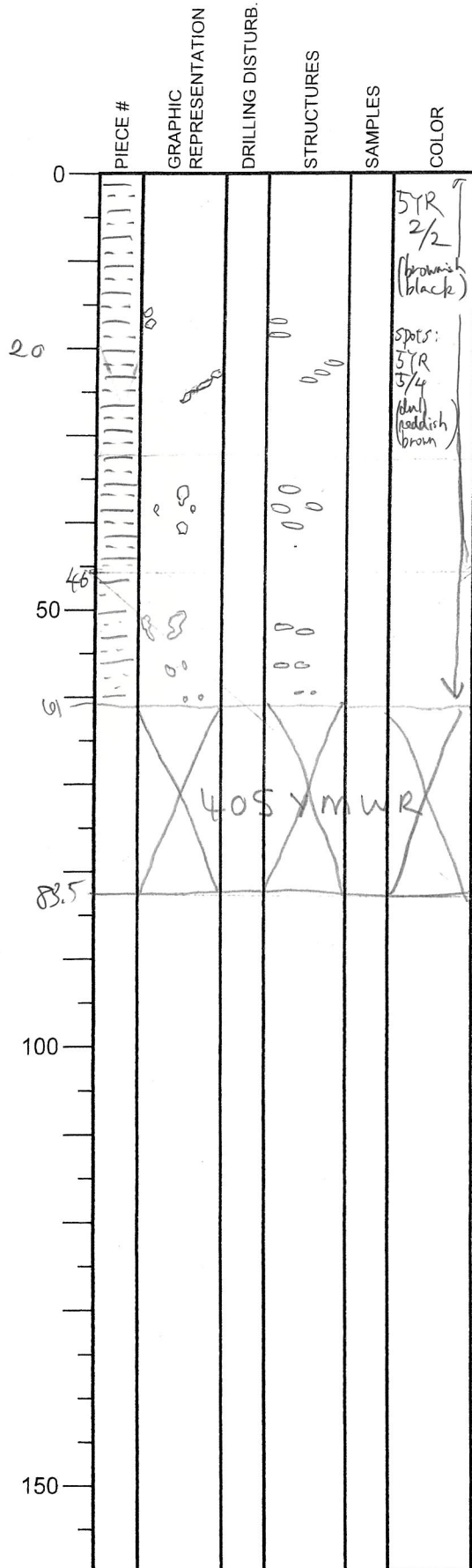
International Ocean Discovery Program Visual Core Description

NO.
DATE: 29/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 11K
SECTION: 1
TOP DEPTH (m CSF):

SECTION DESCRIPTION

848.5

OBSERVER: Anka



Brownish black scaly clay.

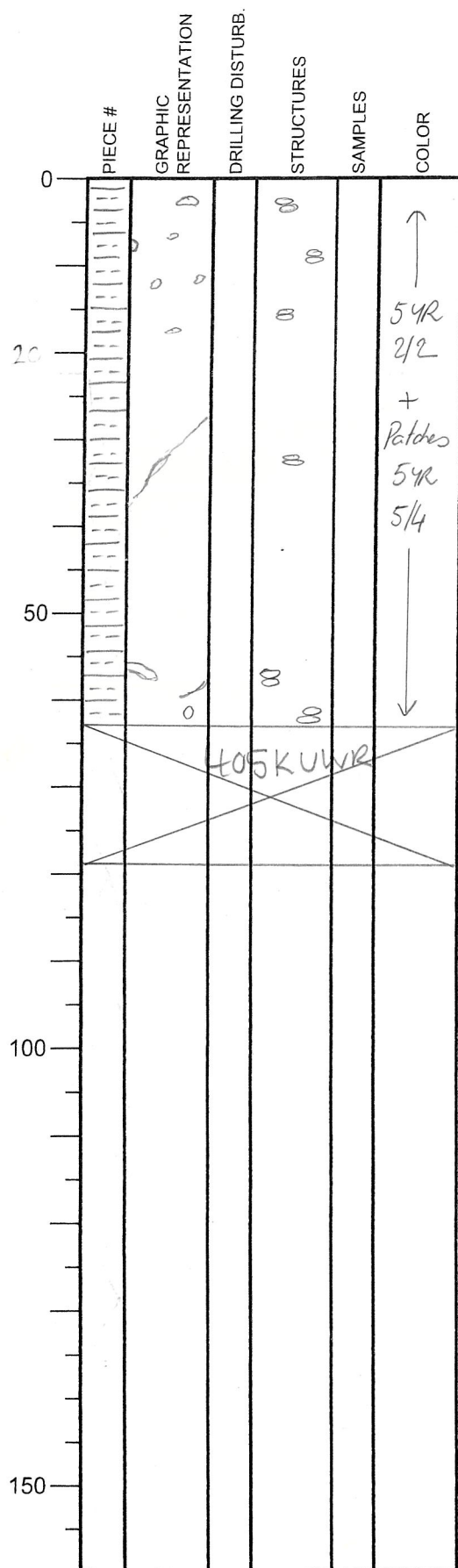
Pinky patches at 16-17, 23-26 and 33-40 cm.
and 53-55 cm.

11K

International Ocean Discovery Program Visual Core Description

J

NO.
DATE: 301/01/2024
EXP.: 405
SITE/HOLE: COO19K
CORE: 11K
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Jorgane

From 0 to 63 cm:

Brownish black ^{scaly} clay (54R 2/2) with scattered dull redish brown (54R 5/4) patches

Patches: x rounded or along micro-fractures
x continuous edges
x 0.5 to 2 cm large

63 cm

WR sample

End of section @ 79 cm

XCT observations

- x Few high-density dots scattered along the section
- x Semi-vertical medium-density micro-fault (mm. offset) from 9 to 40 cm

OBSERVER:

Torgane

(54R 2/1)

From 0 to 5 cm: PAL

Sampling

From 5 to 21 cm

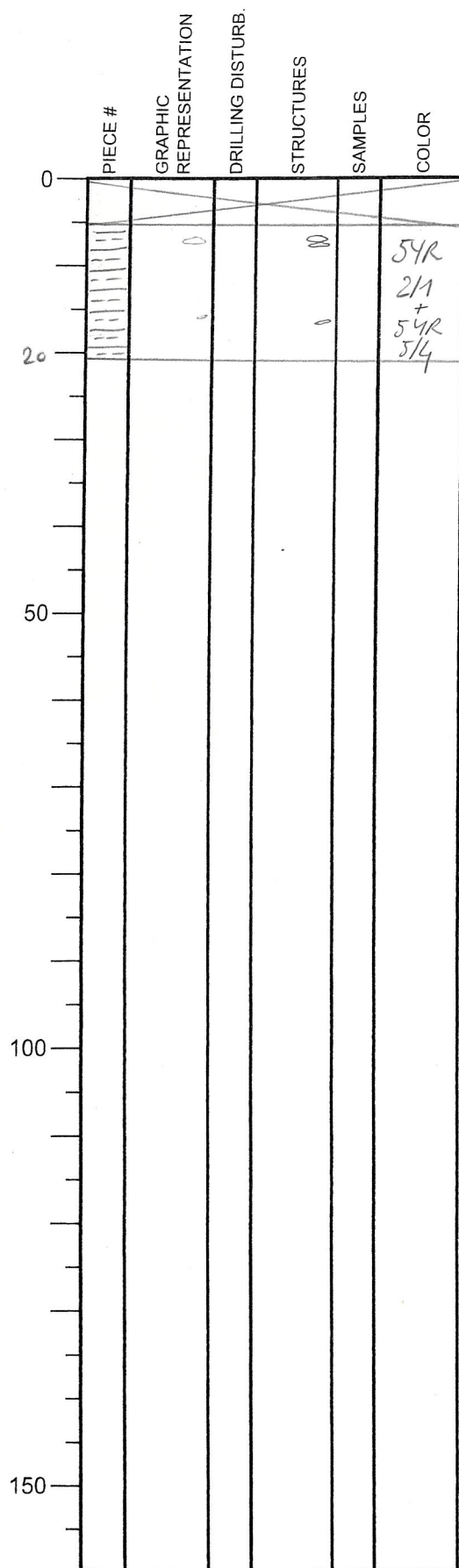
Brownish black clay with
few scattered dull redish
brown patches.

21 cm : End of section

patches.
(54R 5/4)

XG observations:

- × Multiple medium-density subvertical features (faults or veins?)



TOP DEPTH (m CSF):

OBSERVER:

8 Piero
Dargane
G. Guzman

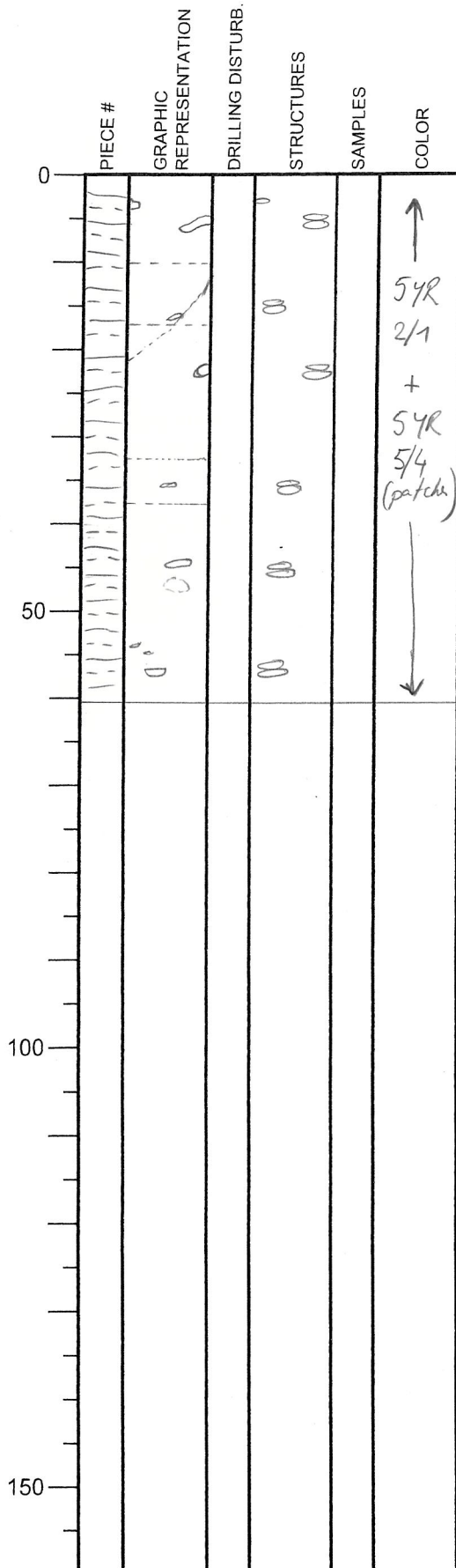
x two intervals with/fine material (10-17cm & 33-37cm)
lighter brown and more "crashed" material.

Same lithology but less stiff

weak
layer
or
shear
zone/
band.

61 cm : end of section

12K



International Ocean Discovery Program Visual Core Description

J

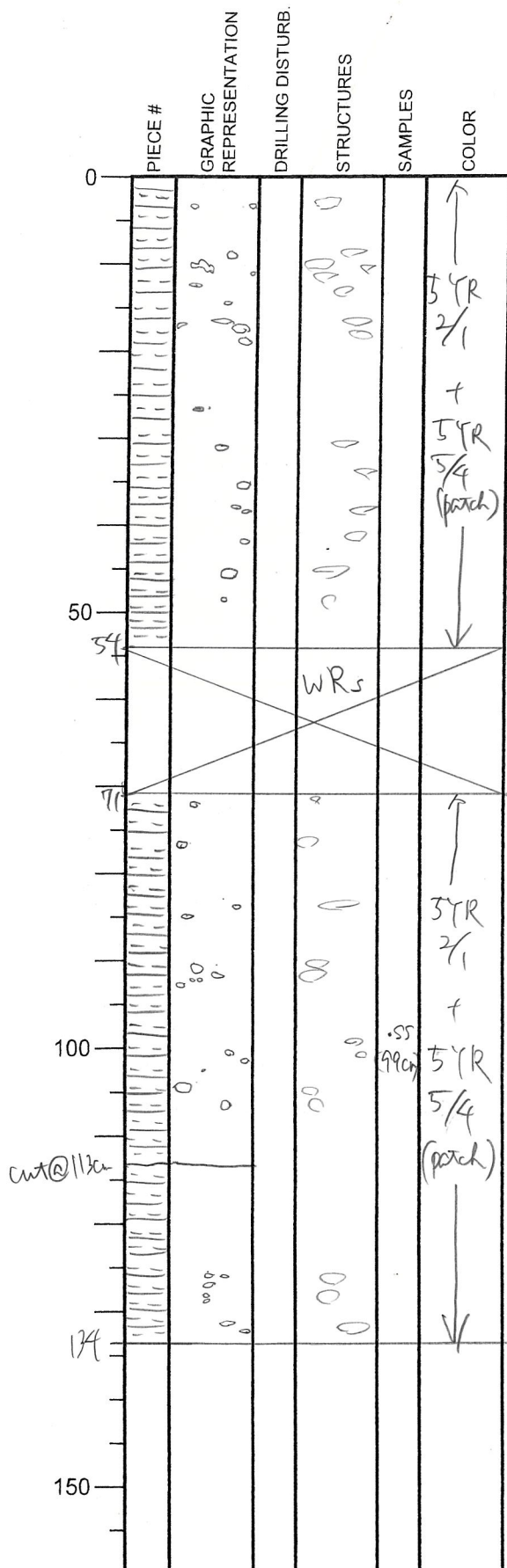
NO.
DATE: 30/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 12K
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER: Asuka

SECTION DESCRIPTION

0-54, 71-134 cm:
Brownish black scaly clay throughout the section.
(5YR 2/1)

Elliptical dull reddish brown (5YR 5/4) patches (size up to ~1 cm) are scattered.



In the X-CT, subhorizontal boundaries occur at 118 and 121 cm.

134 cm: End of section

International Ocean Discovery Program Visual Core Description

5

NO.
DATE: 30/10/2024
EXP.: 405
SITE/HOLE: C0019
CORE: 12K
SECTION: CC
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					↑
					5YR 2/1 + 5YR 5/4 (patch)
	PAL				↓
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: Yn Chuan

0-26.5 cm
Brownish black clay (5YR 2/1)
with few scattered dull redish brown patches (5YR 5/4)

31.5 cm

TOP DEPTH (m CSF):

Morgane



From 0-42 cm

Brownish black scaly clay (54R 2/1)
with scattered dull redish brown patches (54R 5/4)
[11-29cm]: highly fractured interval.

42-51 cm: WR sample

51 cm: end of section

International Ocean Discovery Program Visual Core Description

J

NO.
DATE 30/10/2024
EXP.: 405
SITE/HOLE: 0019K
CORE: 13K
SECTION: 2
TOP DEPTH (m CSF):

OBSERVER: Asuka

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					↑
					5YR 2/1 + 5YR 5/4 (spot)
					↓
36					5YR 3/1
					↓
48					↑
					5YR 3/2
					↓
75					
82					
100					
150					

SECTION DESCRIPTION

0-36 cm: (5YR 2/1)
Brownish black scaly clay,
with dull reddish brown (5YR 5/4) patches.

36-48 cm: Brownish black (5YR 3/1) scaly clay
↓ gradual color change

48-75 cm: Dark reddish brown (5YR 3/2) scaly clay

End of the section

* Summary:
Brownish black to dark reddish brown
scaly clay with dull reddish brown
patches at 0-36 cm

International Ocean Discovery Program Visual Core Description

J

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

OBSERVER: Asuka

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					5YR 3/2
9					
14.5					
50					
100					
150					

SECTION DESCRIPTION

14.5 End of the section

0-9 cm:

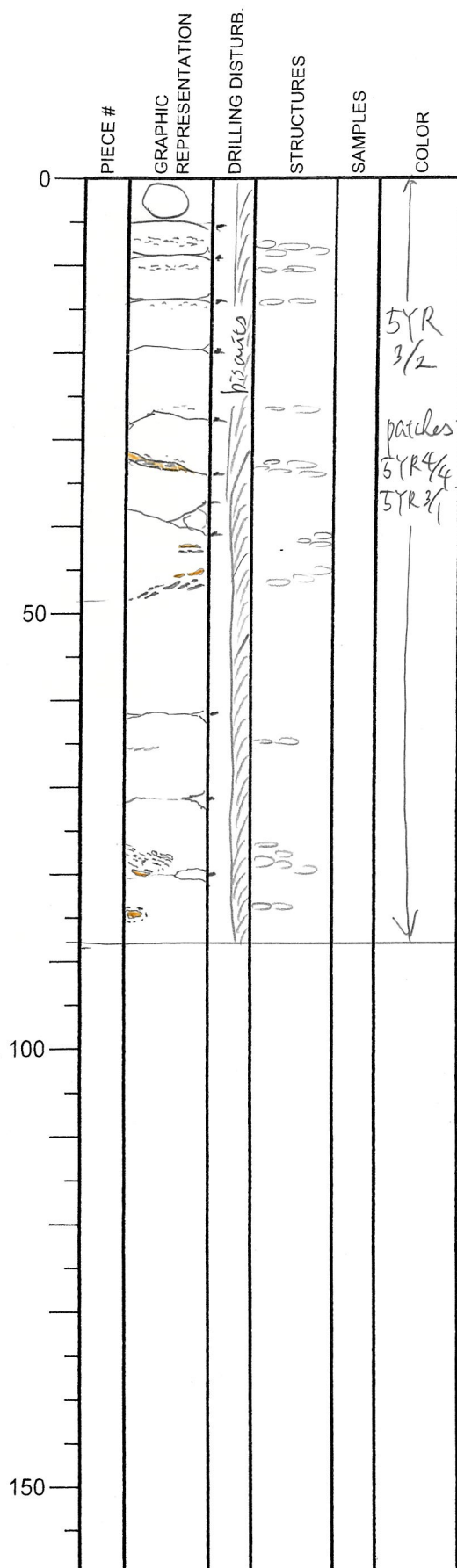
Dark reddish brown (5YR 3/2)

scaly clay with dull reddish brown (5YR 5/4) patches at the top.

International Ocean Discovery Program Visual Core Description

NO.
DATE 30/10/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 14K
SECTION: 1
TOP DEPTH (m CSF): 859.5

OBSERVER: Asuka



SECTION DESCRIPTION

- 0-88.5 cm:
- Dark reddish brown (5YR 3/2) clay.
 - Brownish black (5YR 3/1) rounded to elongated clay patches at 6-7, 10-11, 14-15, 25-27, 30-32, 42-44, 47-49, 69-71, 75-80, 84-86 cm.
 - Dull reddish brown (5YR 4/4) clay layer at 31-32 cm, elongated patches at 42.5, 47.5, 76-80, 85-86 cm.

88.5 cm: End of the section

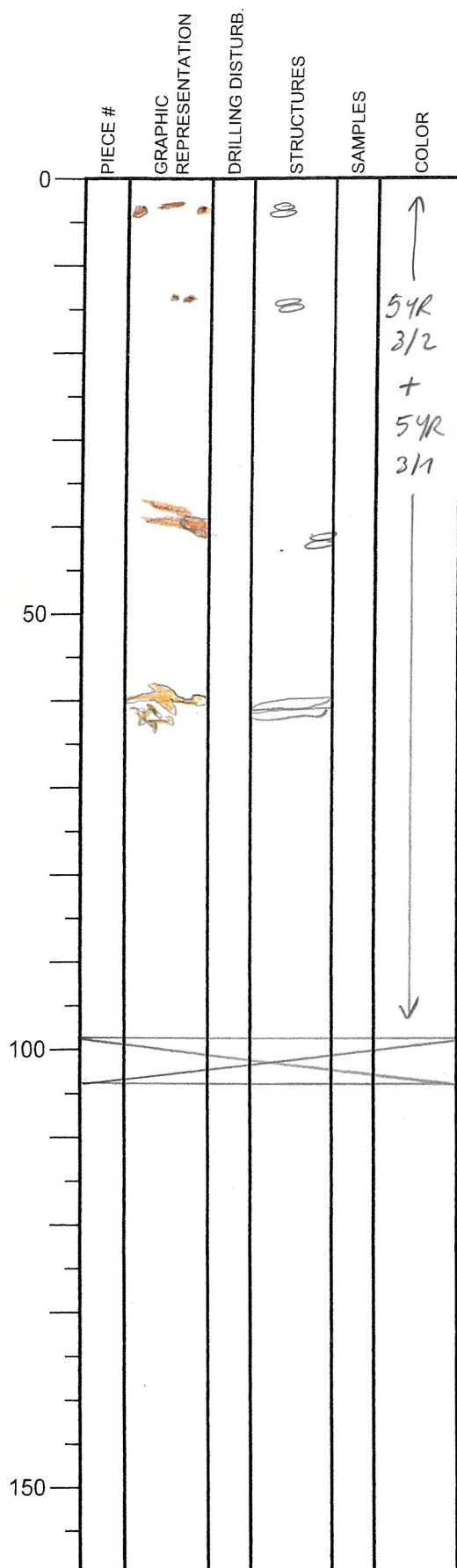
* Summary:

Dark reddish brown clay with dull reddish brown & brownish black clay layers and patches.

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 31/10/2024
EXP.: 405
SITE/HOLE: C0019
CORE: 14K
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

From 0 to 99 cm

OBSERVER: Nergane

- Dark reddish brown (54R 3/2) clay
- Scattered patches and layers dull reddish brown (54R 4/4) of clay.
 - [3-4 cm]; [59-62]
 - 14 cm; 43 cm
- Scattered small patches of clay, brownish black (54R 3/1)
 - 3.5 cm; 17.5 cm; 21.5 cm; 80 cm
 - [55-56 cm]

99 cm.
void.
End of section: 104 cm.

XCT observations

Nothing specific

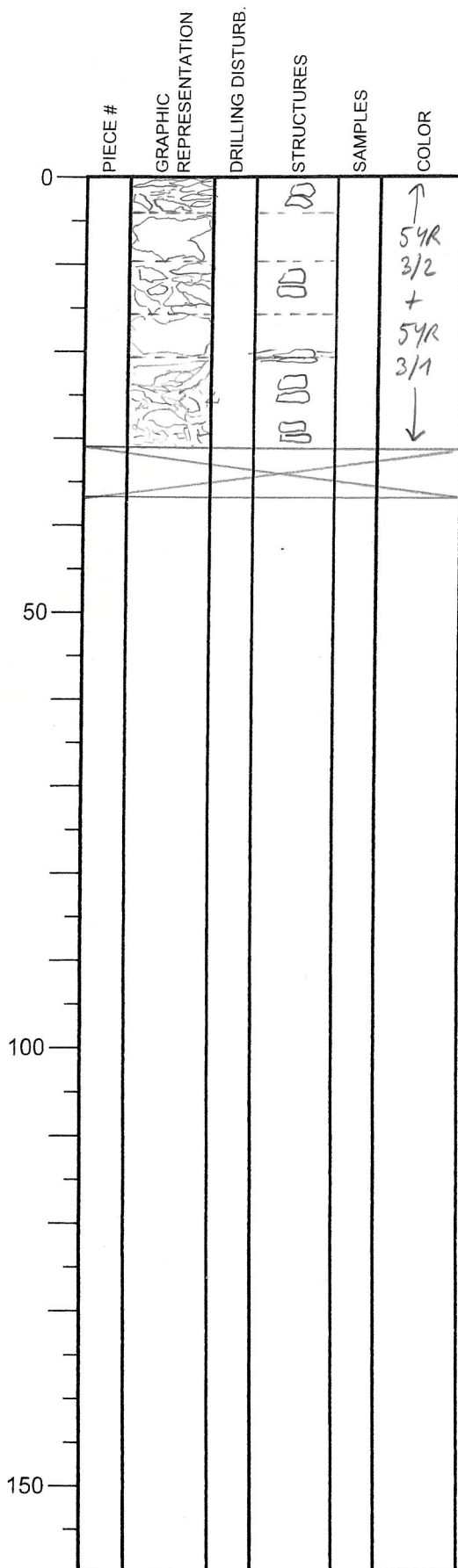
SUMMARY

Dark reddish brown clay with scattered dull reddish brown & brownish black clay layers and patches.

International Ocean Discovery Program Visual Core Description

J

NO.
DATE: 31/10/2024
EXP.: 405
SITE/HOLE: C0019
CORE: 14K
SECTION: CC
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Jorgane

From 0 to 32 cm

Dark reddish brown (54R 3/2) clay
 * Scattered small patches of dull reddish brown (54R 4/4) day : [19-20cm] + [21-32cm]
 * Scattered small patches/laminae of brownish black (54R 3/1) clay [19-20cm] + [21-32cm]

32 cm

PAL SAMPLING

End of section : 37 cm

- * [21-32 cm] = +++ biscuits
- * [1-4 cm] = +++ biscuits
- * [9-16 cm] = ++ biscuits

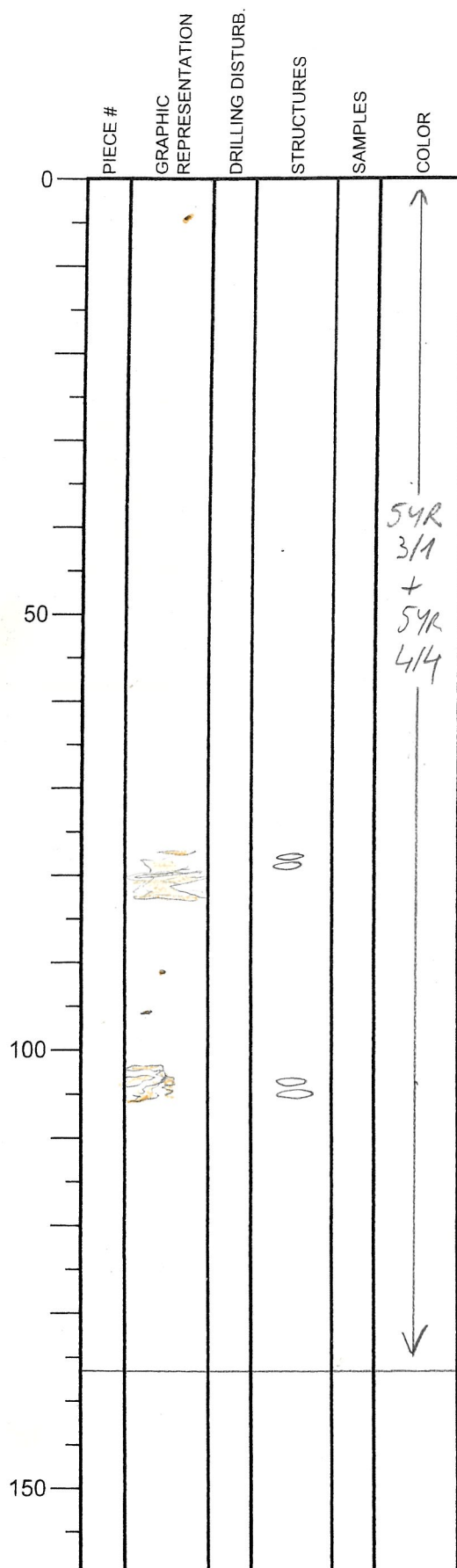
XCT observations

Summary of section

Dark reddish brown clay
 with few dull reddish brown & brownish black clay patches and layers.

International Ocean Discovery Program Visual Core Description

NO.
DATE: 31/10/2024
EXP.: 405
SITE/HOLE: C0019
CORE: 15K
SECTION: 1
TOP DEPTH (m CSF):



SECTION DESCRIPTION

From 0 to 137 cm

OBSERVER: Morgane

Brownish black (54R 3/1) clay
Few dull reddish brown (54R 4/4) clay
dots/patches/layers.
↳ 5.5 cm: [81.5-85 cm], 92 cm, 95 cm
↳ [103-105.5 cm]

XG observations

SUMMARY

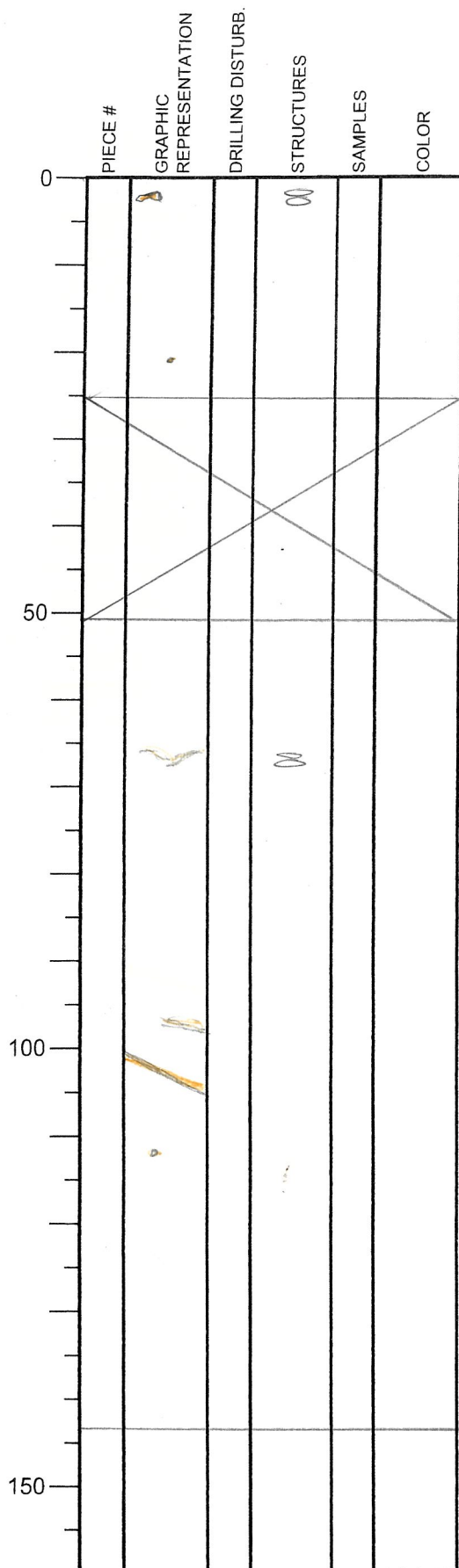
Brownish black clay
(with very few dull reddish brown feature)
↳ Slight darker colour compared
to previous sections.

137 cm: End of section

International Ocean Discovery Program Visual Core Description

5

NO.
DATE: 31/10/2024
EXP.: 405
SITE/HOLE: C0019
CORE: 15k
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

From 0 to 25 cm

OBSERVER: Njane

Brownish black (5YR 3/1) clay
Scattered patches/layers of dull reddish brown
clay (5YR 4/4)
↳ 2 cm ; 21 cm ;

WR SAMPLING

XCT observations?
↳ nothing.

15° inclined - 1 mm - thick contact
dull reddish brown (5YR 4/4) clay
↳ oxidised clayey contact
↳ nothing on XCT scans

144 cm: end of section

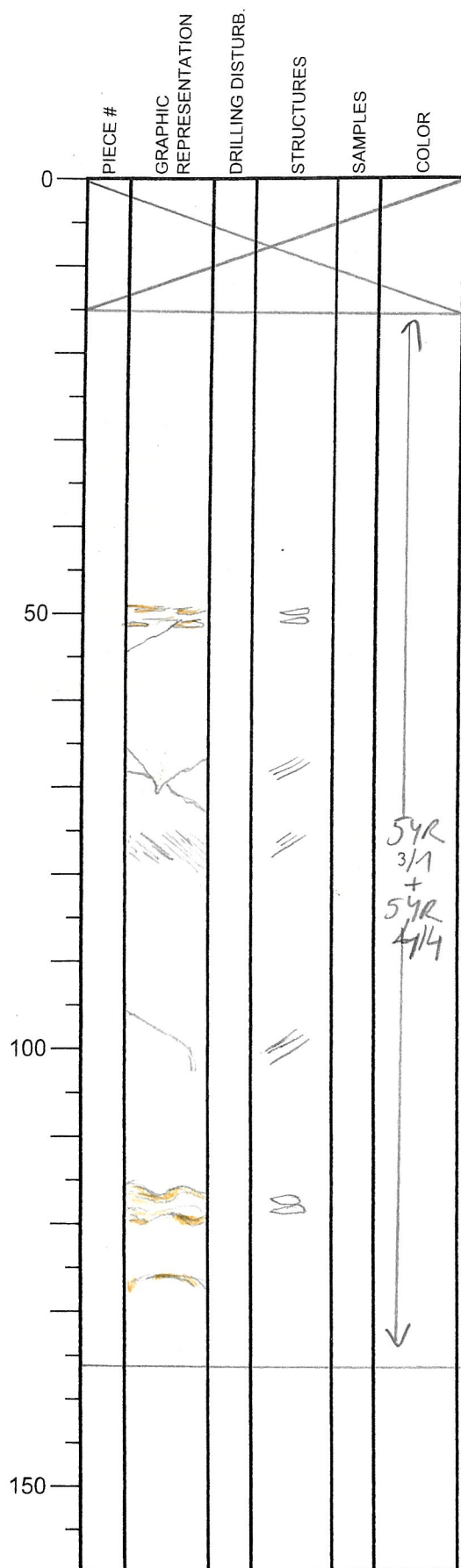
SUMMARY

Massive brownish black clay
with scattered patches, dots and inclined
contact of oxidised clay

International Ocean Discovery Program Visual Core Description

J

NO.
DATE 31/10/2024
EXP.: 405
SITE/HOLE: C0019
CORE: 15K
SECTION: 3
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: J. J. J.

WR SAMPLING

From 15 to 136.5 cm

α Brownish black (5YR 3/1) stiff clay
with scattered dull reddish brown (5YR 4/4)
clay patches/layers.
↳ [49-51 cm]; [117-120 cm]; 127.5 cm

α

[65.5-72 cm]: fractured interval

[75.5-79 cm]: faulted interval

5YR
3/1
+
5YR
4/4

136.5 cm: end of section

SUMMARY

Brownish black (5YR 3/1) clay
with scattered dull reddish brown (5YR 4/4)
clay patches/layers and/deformed intervals
fractured

丁

TOP DEPTH (m CSF):

OBSERVER:

Vergane



From 5 to 27 cm

Brownish black (54R 3/1) stiff clay

Few patches of dull reddish brown
(5 yr 4/4) clay patches

↳ [12-13 cm] & 21 cm

↳ 27 cm: End of sections

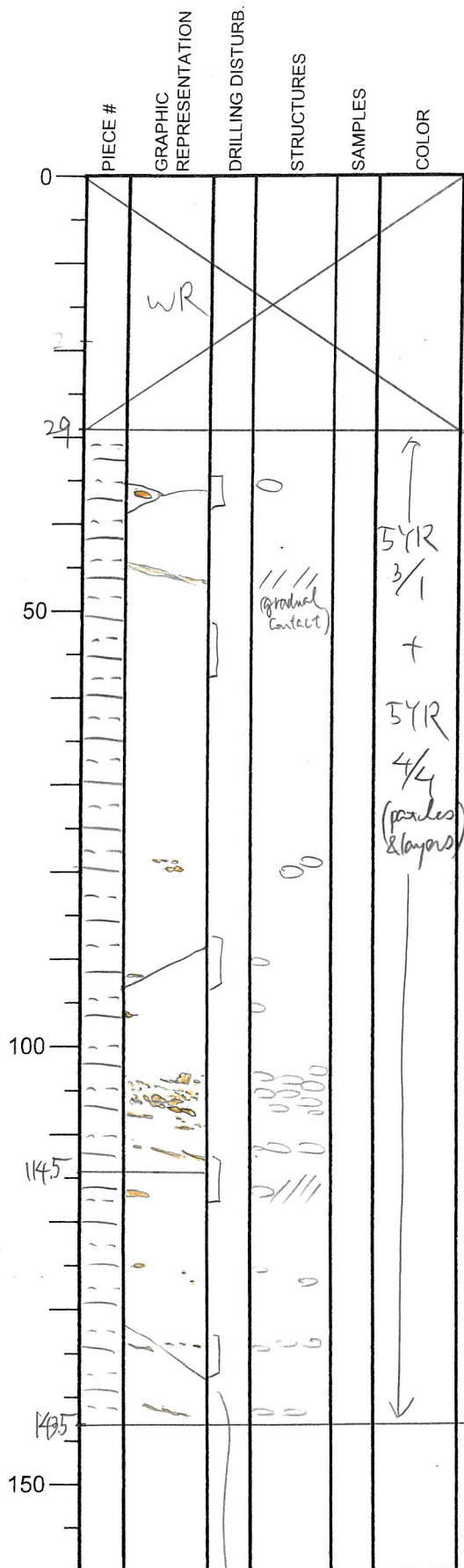
International Ocean Discovery Program Visual Core Description

J

NO.
DATE: 3/10/2024
EXP.: 405
SITE/HOLE: 60019K
CORE: 16K
SECTION: 1
TOP DEPTH (m CSF):

SECTION DESCRIPTION

OBSERVER: Abaka



29-143.5 cm:
Brownish black (5YR 3/1) clay.

45-47 cm: ~5 mm-thick dull reddish brown (5YR 4/4) layer with gradual contact.

104-109 cm: Subangular dull reddish brown (5YR 4/4) patches

117-118 cm: ~1 cm-thick dull reddish brown layers with gradual contact.

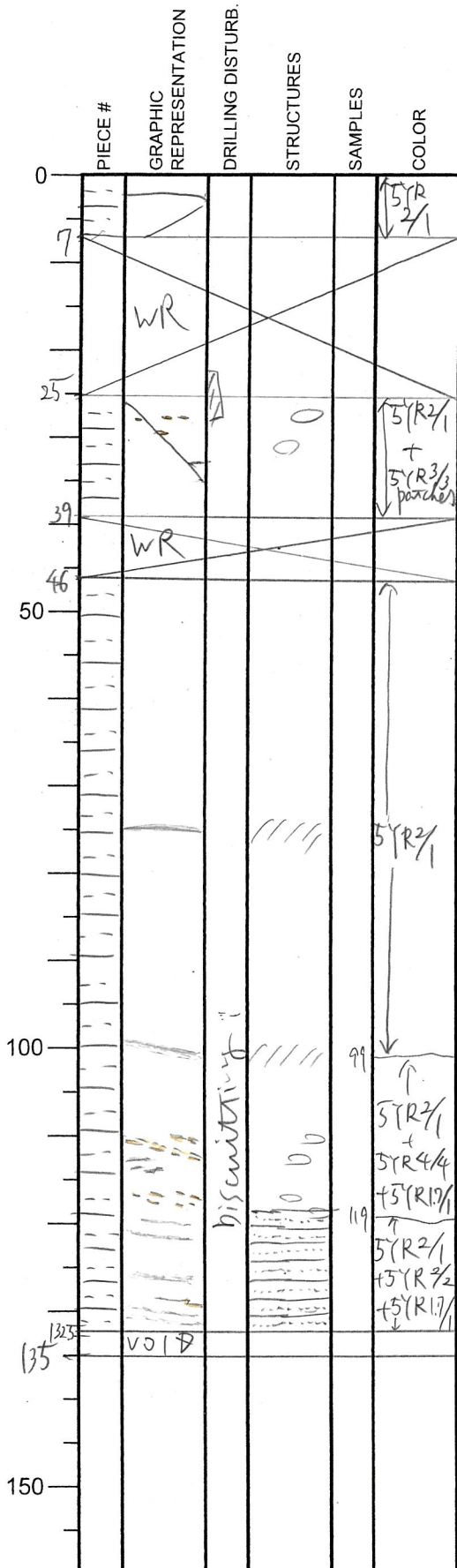
143.5 cm: End of the section

* Summary: Brownish black clay with reddish brown patches & layers.

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 3/1/2024
EXP.: 405
SITE/HOLE: C0019K
CORE: 16K
SECTION: 2
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Asuka

0-7 cm: Brownish black (5YR 2/1) clay

25-39 cm: Brownish black (5YR 2/1) clay
with minor dark reddish brown (5YR 3/3)
patches.

46-99 cm: Brownish black (5YR 2/1) clay.
homogeneous except for
black (5YR 1/1) layer at 75 cm.

99-119 cm: Brownish black (5YR 2/1) clay
with dull reddish brown (5YR 4/4) patches and
gently inclined layers, black (5YR 1/1) layers.

119-132.5 cm: Tri-color banding of brownish black clay.
dark brown 5YR 2/1 1-2 cm
black 0.5 cm
light brown 5YR 4/4 1-2 cm
black 0.5 cm
dark brown 5YR 2/1 1-2 cm
Relatively lighter brown layers (5YR 4/4)
seen to be sandwiched by black (5YR 1/1)
layers & surrounding dark brown (5YR 2/1)
part.

128.5-129 cm: A thin-thick dull reddish brown (5YR 4/4)
layer.

132.5-135 cm: void.

135 cm: End of the section

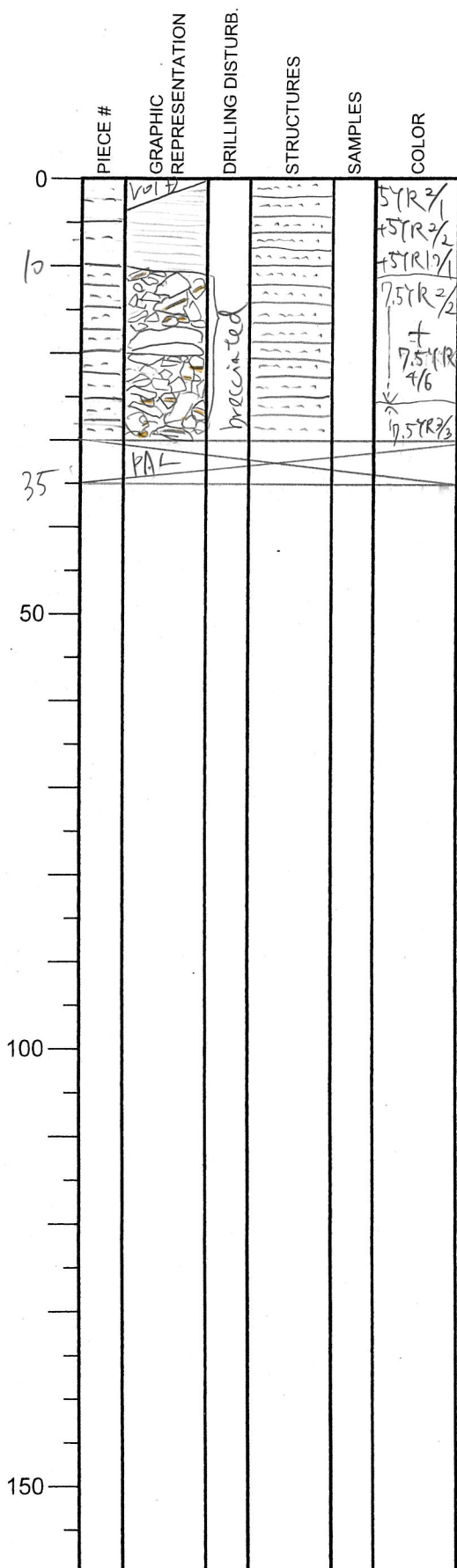
* Summary: Brownish black clay.
Color banding at the bottom part
of the section (119-132.5 cm)

* Note that layering starts to occur
below 67 cm in the CT image.

International Ocean Discovery Program

Visual Core Description

NO.
DATE: 3/16/2024
EXP: 405
SITE/HOLE: C0019K
CORE: 16K
SECTION: CC
TOP DEPTH (m CSF):



SECTION DESCRIPTION

OBSERVER: Asuka

0-10 cm: 2-5 mm - interval color banding of 5YR 2/1 brownish black clay, 5YR 2/2 brownish black clay (slightly lighter than 5YR 2/1), and 5YR 1.7/1 black clay. Harder (= lithified) than previous cores.

End of the section @ 35 cm.

10-30 cm: Brecciated by drilling. Brownish black (7.5YR 2/2) to dark brown (7.5YR 3/3) clay. Color gradually changes at ~26 cm.

Brown (7.5YR 4/6) bands occurs in brecciated clasts. Thickness of the band is < 2 mm. Subhorizontal alignment of the bands suggests the existence of scaly fabrics as potential cracks.

* Summary:

Semi-lithified brownish black clay with brownish color bands.

International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 31/10/2024
EXP.: 405
SITE/HOLE: Coo19K
CORE: 171A
SECTION:
TOP DEPTH (m CSF): 7777.0

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
3					
15					
12					
14					
18					
24					
26.5					
30					
41					
Return sample of core for sampling					
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: Aruba

0-18 cm: Interbedded brownish black (7.5YR2/1), black (7.5YR1.7/1) and bright brown (7.5YR5/6) clay. Interlayers of 1-3 mm in thickness. SS from 3 cm (bright brown part).

14-18 cm: A block of black (7.5YR1.7/1) and dull yellow orange (10YR7/3) clay. Sharp boundary between two colors. SS from black (16 cm) and yellow (17 cm) parts.

14-30 cm: Brown clay.

14-24 cm: Subtle layering (three layers) of slightly dark brown (7.5Y4/4) layer in relatively light (7.5Y4/6) brown. SS from representative brown part (14 cm)

24-30 cm: Sub-mm to mm-scale interlayers of brown (7.5Y4/6) and dark brown (7.5Y3/4) to black (7.5Y2/1) clay. SS from 26 cm. (interlayer part)

26-30 cm: A fragment of dull orange (7.5Y6/4) chert.

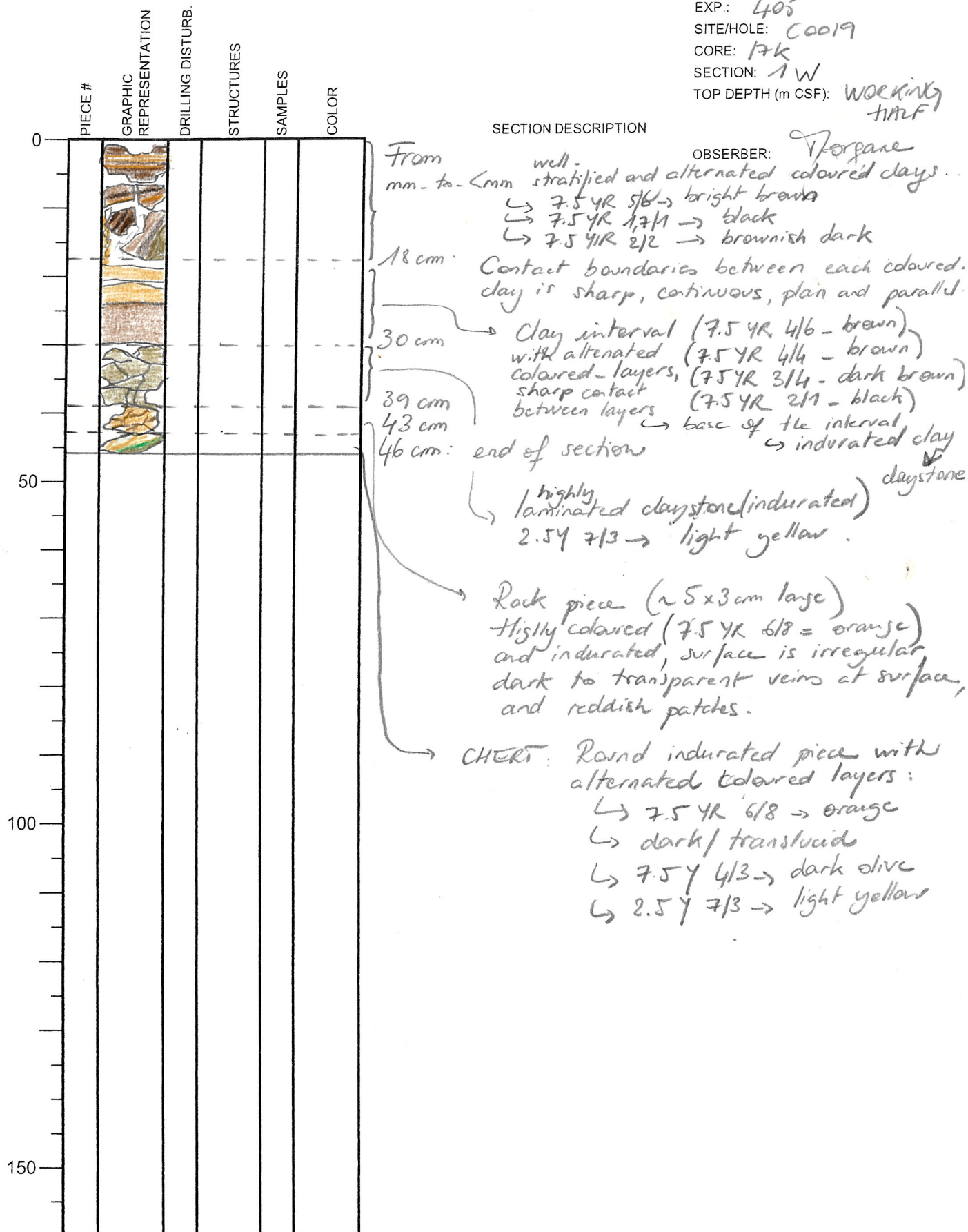
30-41 cm: Fractured blocks of light yellow (2.5Y7/3) clay subhorizontal interlayer of sub-mm to mm-scale. A block at 29-30 cm shows vitric surface; possibly pre-natural of chert or porcelainite. SS from 32 cm

* Summary: Variety colored clay with chert fragments.

International Ocean Discovery Program

Visual Core Description

NO.
 DATE: 31/10/2024
 EXP.: 405
 SITE/HOLE: C0019
 CORE: 17K
 SECTION: 1W
 TOP DEPTH (m CSF): working time



International Ocean Discovery Program

Visual Core Description

J

NO.
DATE: 3/10/2024
EXP.: 405
SITE/HOLE: 609K
CORE: 17K
SECTION: CCA
TOP DEPTH (m CSF):

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
25					
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: Asuka

0-5 cm: Largest block in this section.
Yellowish brown (10YR 5/8) chert
with pale orange (5YR 7/4) clay on the surface.

5-25 cm: Blocks of cherts and clays. Brecciated

- Dark brown (7.5YR 4/6) chert: some blocks include light yellow (2.5Y 7/3) part.

- Light yellow (2.5Y 7/3) chert or porcelanite & clays.
Dominant lithology of the breccia.
Some clasts have 10YR 1.9/1 black part.

- Dark grayish yellow (2.5Y 4/2) chert or porcelanite.
More vitric than light yellow clasts.
Partially replacing light yellow clasts.

Summary: chert and clay blocks

International Ocean Discovery Program

Visual Core Description

J

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

PIECE #	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
0					
9					
25					
50					
100					
150					

SECTION DESCRIPTION

OBSERVER: Jorgane

From 0 - 9 cm

Fall-in of highly indurated, cm-scale, claystones (several cm-scale), coloured (7.5YR 6/8) → orange

From 9 to 25 cm

highly fragmented grayish yellow claystones, with some fragments indurated (mm- to cm scale), (2.5Y 4/3 → olive brown, 2.5Y 7/2 → grayish yellow)

Others fragments of indurated material (orange) are included.

[23 - 25 cm] = base of section is consolidated (2.5Y 7/2) ← clay