

m b s f - 1 H

0 - 6.38

NN 21

UNIVERSITY OF CALIFORNIA

VISUAL CORE DESCRIPTION

DATE: 12/20/2007

EXP: 316

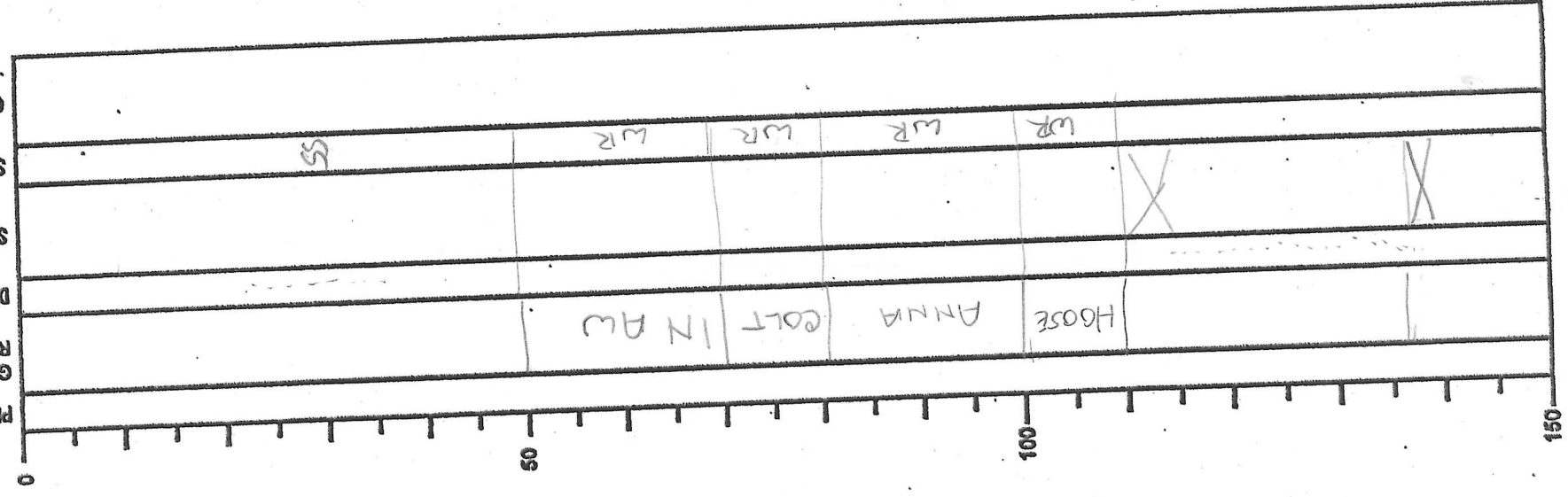
SITE/HOLE: C0004C

CORE: 1H

SECTION: 1

OBSERVER: KLM/ms

SECTION DESCRIPTION



0-50

greenish gray clayey silt

very homogeneous

fragments present - make up much of sd volume

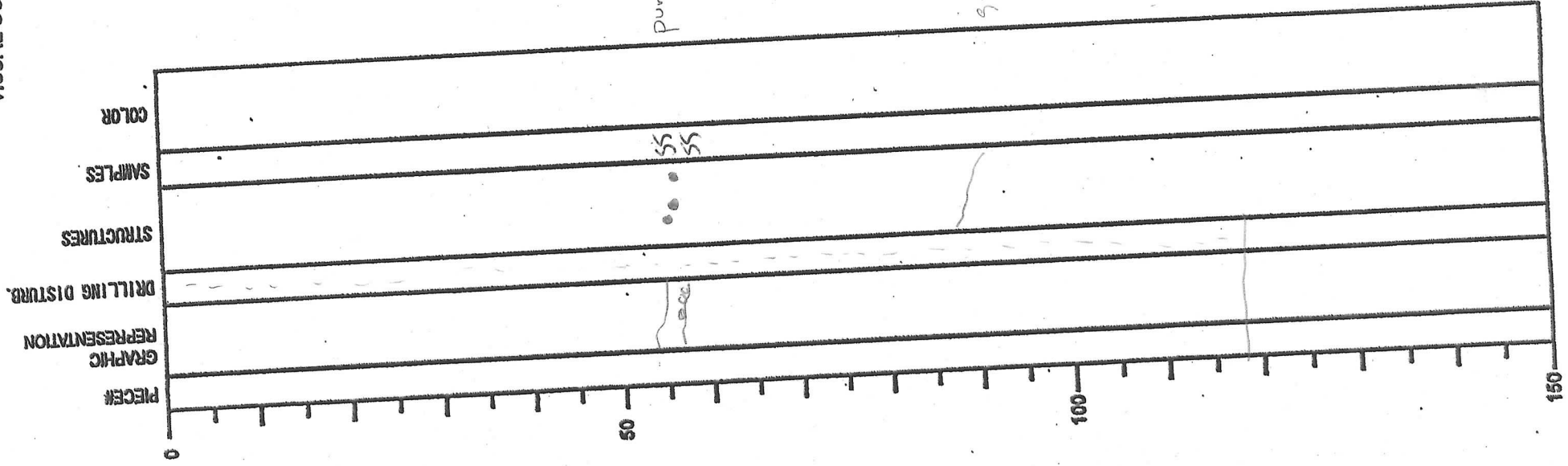
110-142

same as above

void

void

DATE: 12 / 20 / 2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 114  
SECTION: 2  
OBSERVER: KJM/MS



SECTION DESCRIPTION

0-117

as in section 1

a few larger particles scattered through - glauconitic molluscs, thin z. of dispersed ash w/ pumice fragments at 56-57

pumice frag → in sample half too small pebbles

CT Scan shows heterogen. w/ pebble-size clasts + burrows - Prob. Zoophycus

greenish zone

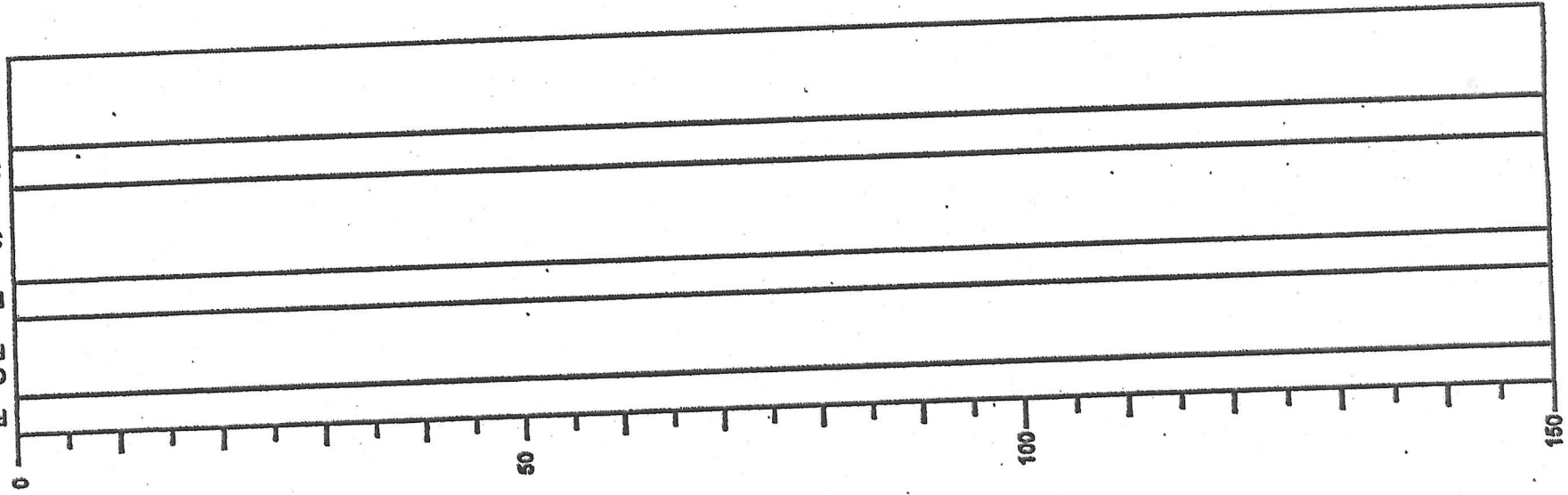
3 120/2007  
DATE: 12/20/2007  
EXP: 3/6 0004C  
SITE/HOLE: 0004C  
CORE: 113  
SECTION: 12UM  
OBSERVER: 12UM

INTEGRATED VISUAL DESCRIPTION: VISUAL CORE DESCRIPTION

ILW

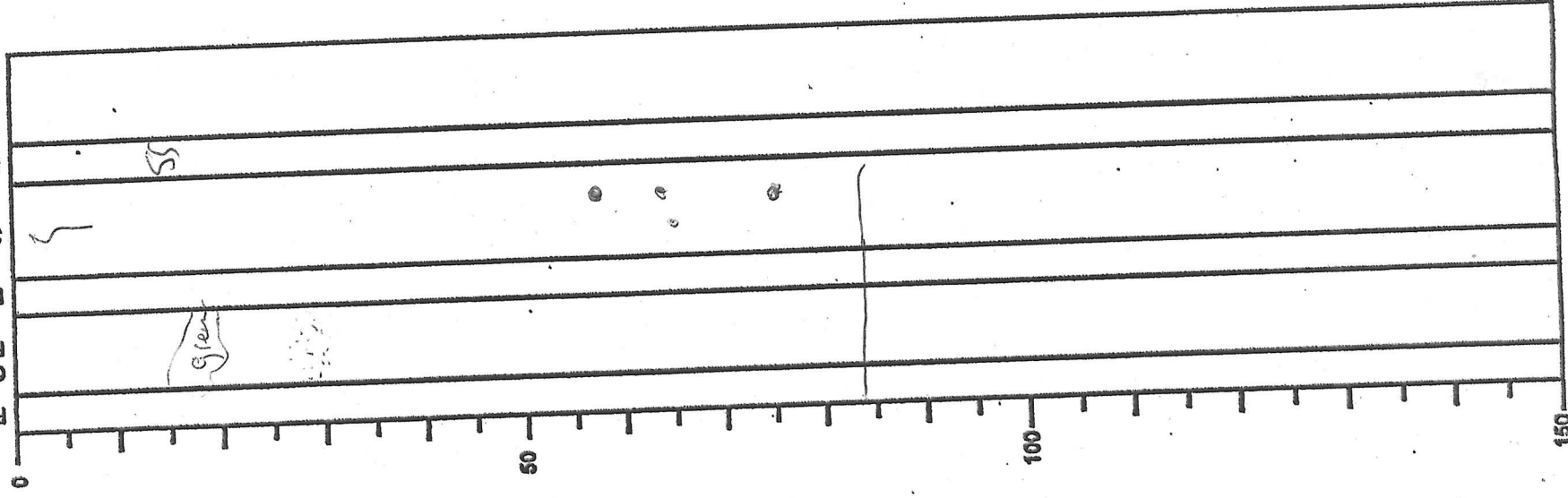
SECTION DESCRIPTION

Pieces  
GRAPHIC REPRESENTATION  
DRILLING DISTURB.  
STRUCTURES  
SAMPLES  
COLOR



DATE: 12 12 12067  
EXP: 316  
SITE/HOLE: 00004 C  
CORE: 114  
SECTION: 4  
OBSERVER: KLM/MS

SECTION DESCRIPTION



0-83

clayey silt

greenish gray to silty clay (at base)

greenish layer @ 14 cm

silt sandstone at 27-33

scattered pumice fragments throughout

DATE: 12 20 12007

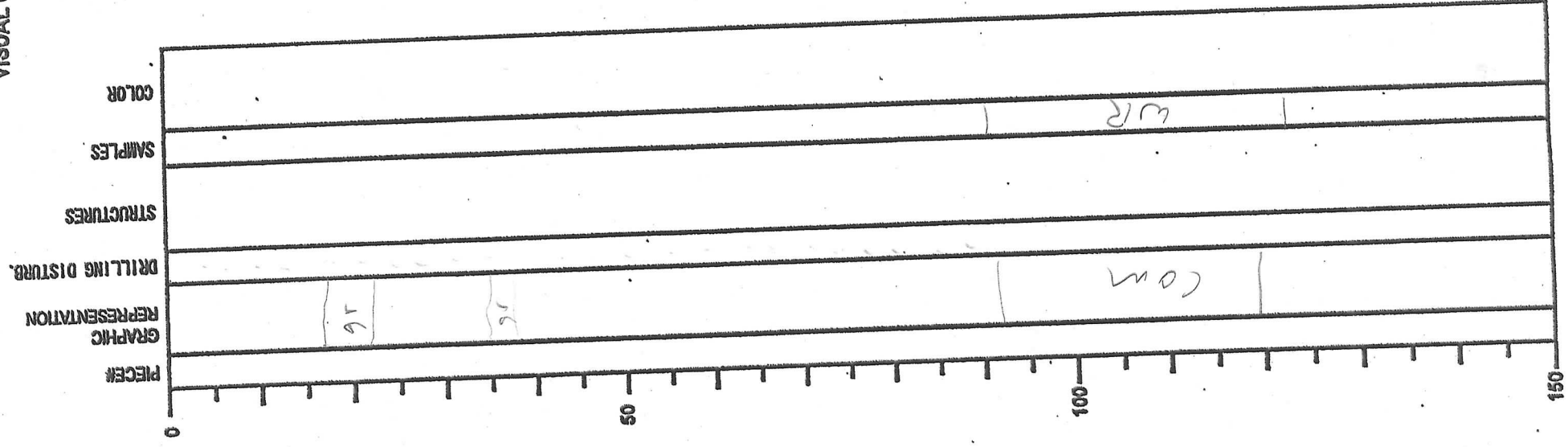
EXP: 316 SITE/HOLE: C0004C

CORE: 1H

SECTION: 5

OBSERVER: KLM/MS

VISUAL CORE DESCRIPTION



0-93

greenish grey silty clay,  
as above,  
structureless

greenish zone at

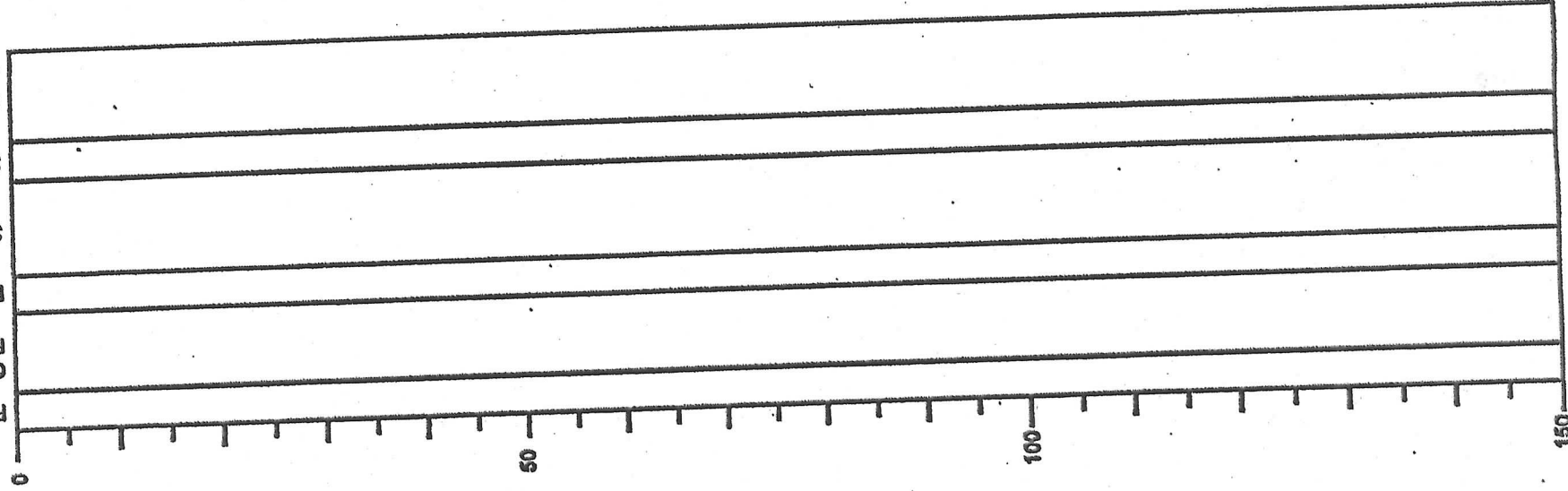
17-22 -  
34-35 -

sl. color banding

6  
DATE: 12/20/2007  
EXP: 316  
SITE/HOLE: C 0004 C  
CORE: 1H  
SECTION: 6  
OBSERVER: RUM/MS

INTEGRATED VOLCANO SURVEILLANCE SYSTEM  
VISUAL CORE DESCRIPTION

PIECE#  
GRAPHIC REPRESENTATION  
DRILLING DISTURB.  
STRUCTURES  
SAMPLES  
COLOR  
SECTION DESCRIPTION



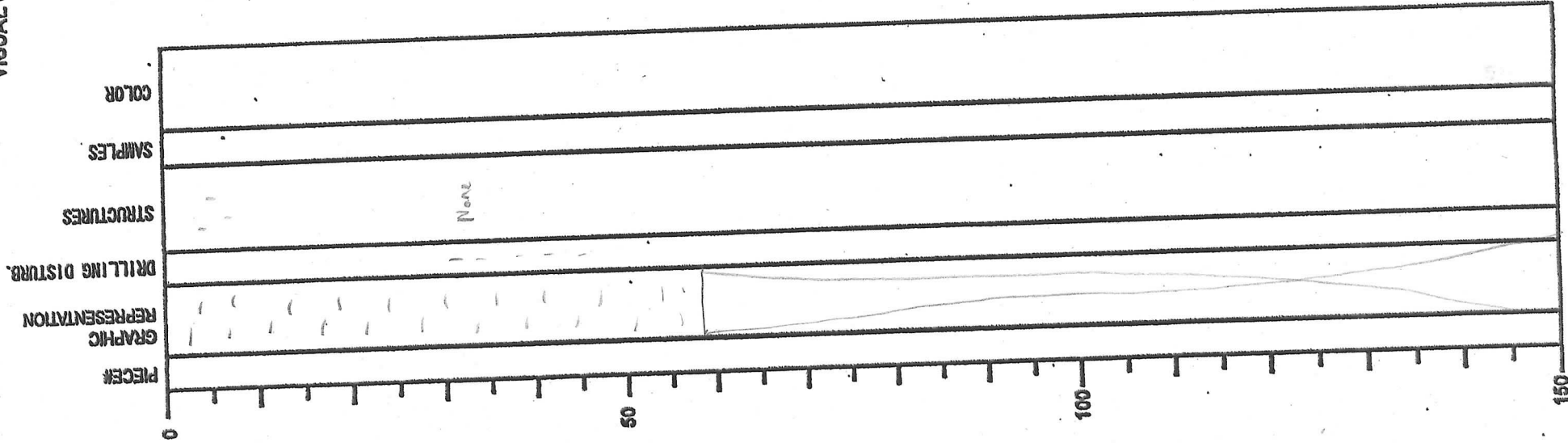
ILW

INTEGRITY VULNERABILITY ASSESSMENT  
VISUAL CORE DESCRIPTION

7  
DATE: 12/20/2007  
EXP: 316  
SITE/HOLE: 0004C  
CORE: 1H  
SECTION: 7  
OBSERVER: RUM/MS  
UNW/CF

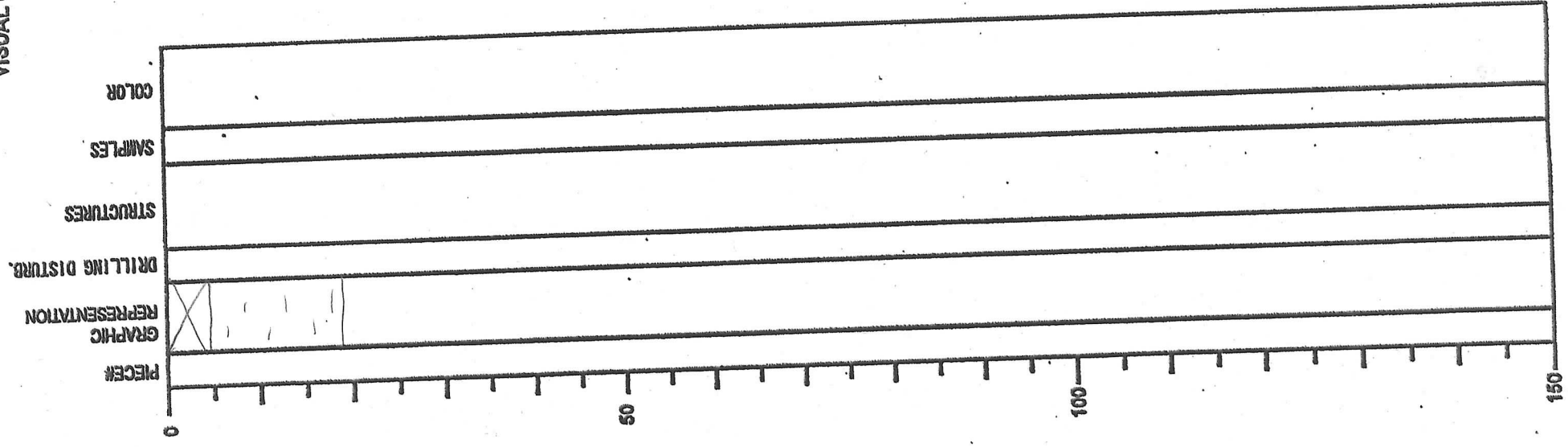
SECTION DESCRIPTION

(- scattered fine white vertical black patches  
- possibly organic matter associated with burrows)  
greenish gray silty clay, homogeneous and  
structureless  
scattered white particles throughout - ark ->



8  
 DATE: 12/20/2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 114  
 SECTION: CC  
 OBSERVER: KLM/MS  
 UN/CF

INTEGRITY VULNERABILITY DESCRIPTION  
 VISUAL CORE DESCRIPTION



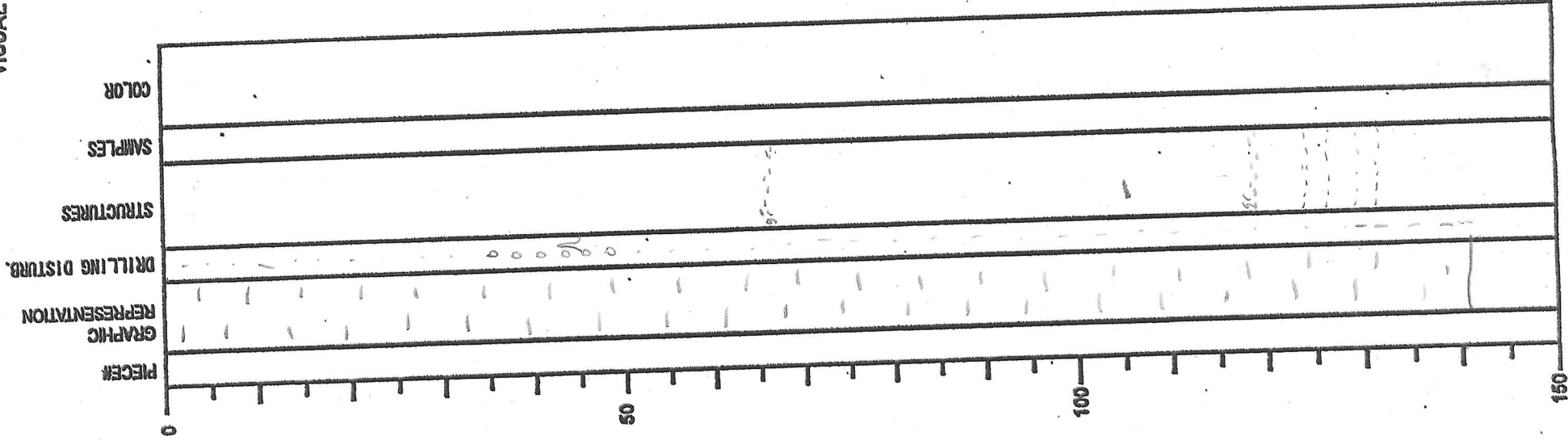
SECTION DESCRIPTION

greenish grey silty clay, no structures  
 obvious.



INTEGRITY VULNERABILITY ASSESSMENT  
**VISUAL CORE DESCRIPTION**

DATE: 21 / 12 / 20 07  
 EXP: 316  
 SITE/HOLE: C0004c  
 CORE: 2H  
 SECTION:  
 OBSERVER: UN/CF



greenish gray silty clay

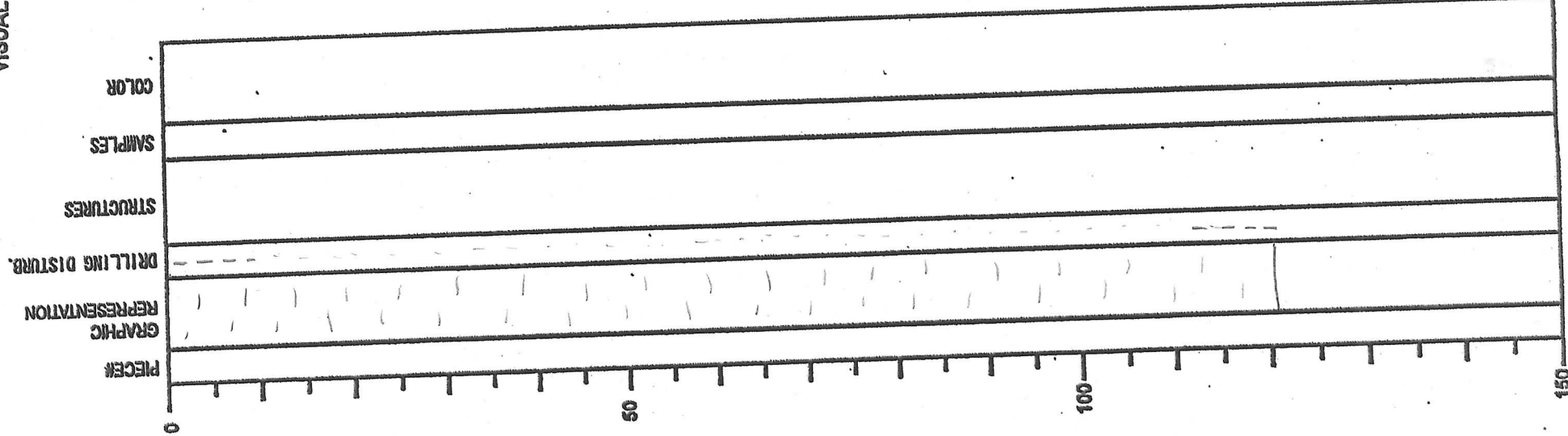
occ. white clast, possibly pumice fragments  
 cut by drill (up. to gravel size)

- green layers @ 7.7cm, 118cm, 120cm, 126cm,  
 129cm, 132cm.

organic matter

DATE: 2/12/2007  
EXP: 3/6  
SITE/HOLE: C0004c  
CORE: 2H  
SECTION: 2  
OBSERVER: UN/cf

VISUAL CORE DESCRIPTION



SECTION DESCRIPTION

greenish gray silty clay, as previous. Homogeneous and largely structureless

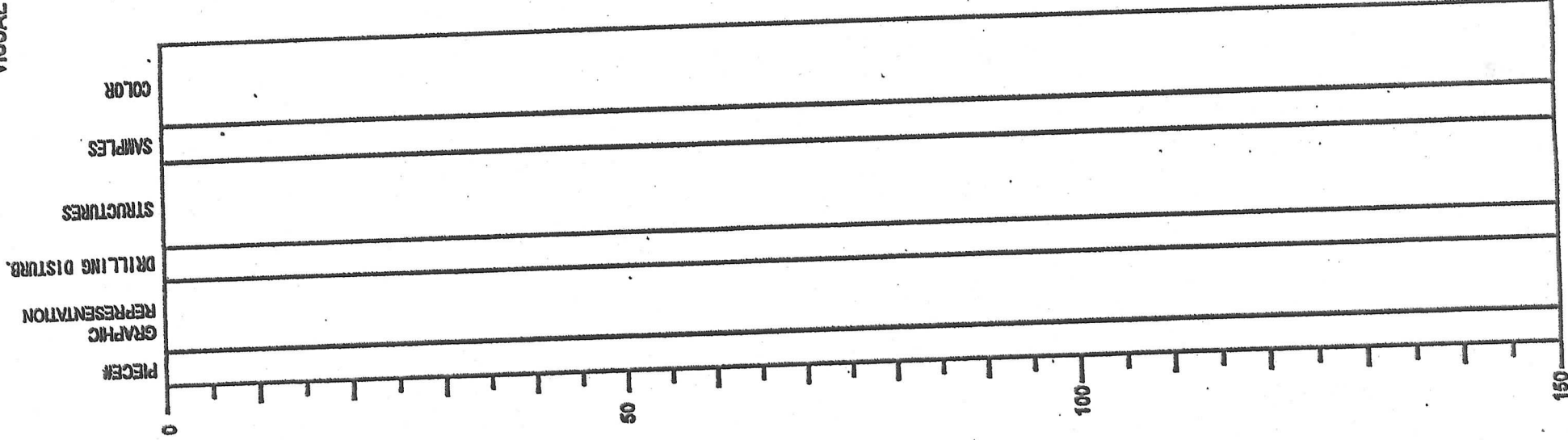
greenish layer (1 cm thick) @ 22 cm, 32 cm, (35 cm), 43 cm, 73 cm, 80 cm, 85 cm. less prominent green band dispersed through core

some scattered panicle clasts.

INTELLIGENCE VULNERABILITY DIVISION  
VISUAL CORE DESCRIPTION

DATE: 2/12/2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 2X  
SECTION: 3  
OBSERVER: ON/CF

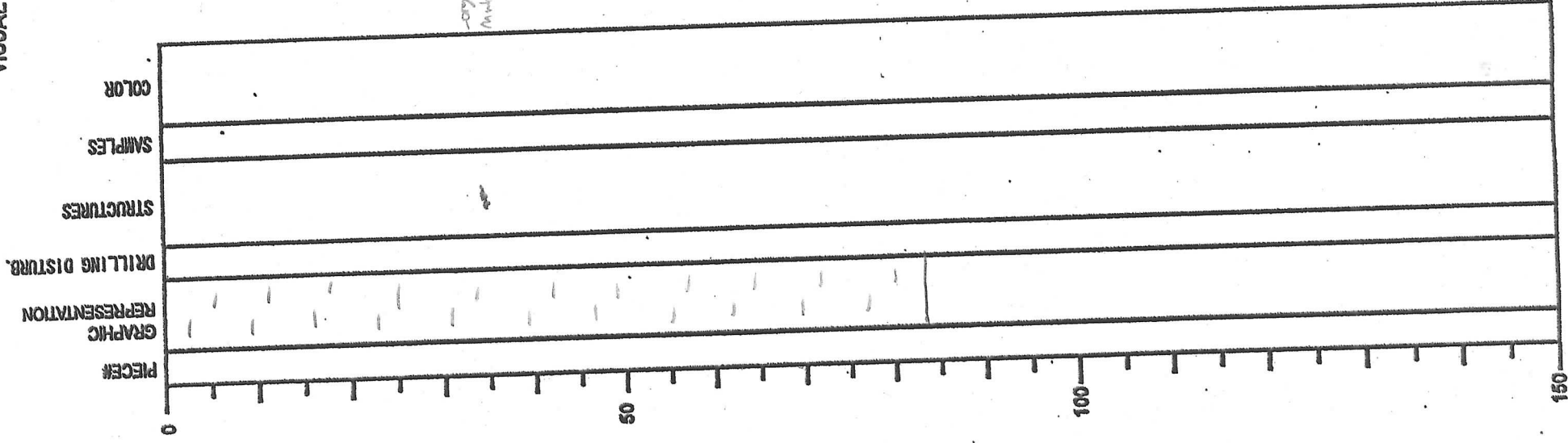
I-W



SECTION DESCRIPTION

DATE: 21 / 12 / 2007  
EXP: 3/6  
SITE/HOLE: C0004C  
CORE: 211  
SECTION: 4  
OBSERVER: UN/CF

VISUAL CORE DESCRIPTION



SECTION DESCRIPTION

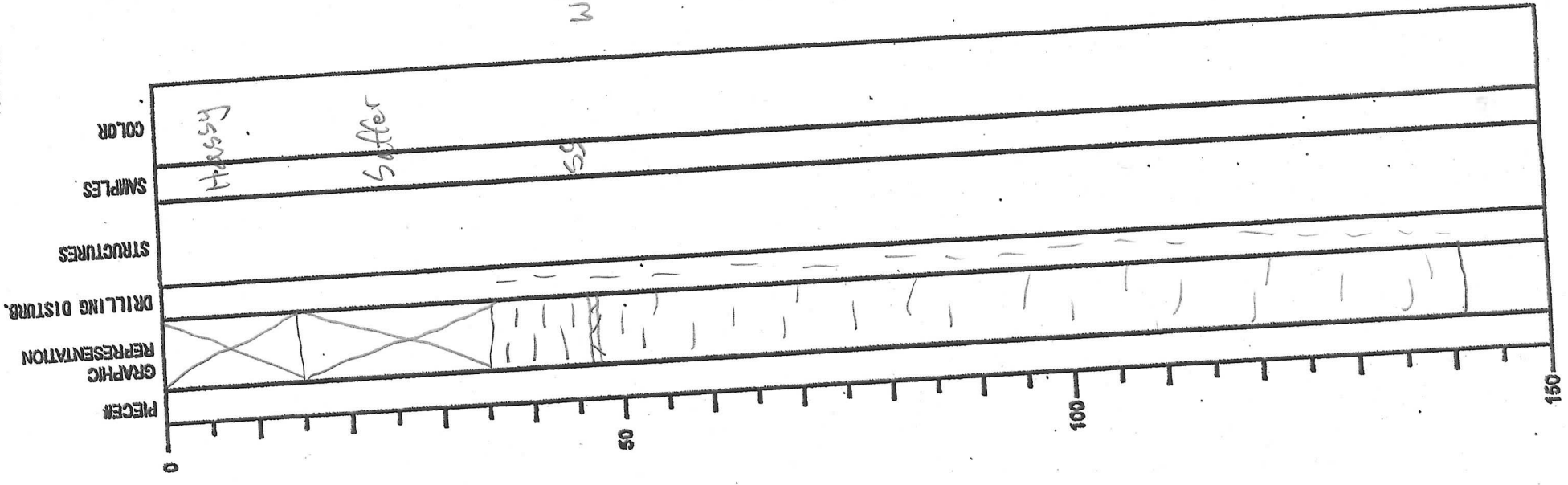
greenish grey silty clay

rare clasts - rhyolite stone

[faded green colour bands which were to  
be prominent in previous core section  
- again  
- miter

DATE: 2/1/12/2007  
EXP: 316  
SITE/HOLE: C0004-C  
CORE: 2H  
SECTION: 5  
OBSERVER: UN/CF

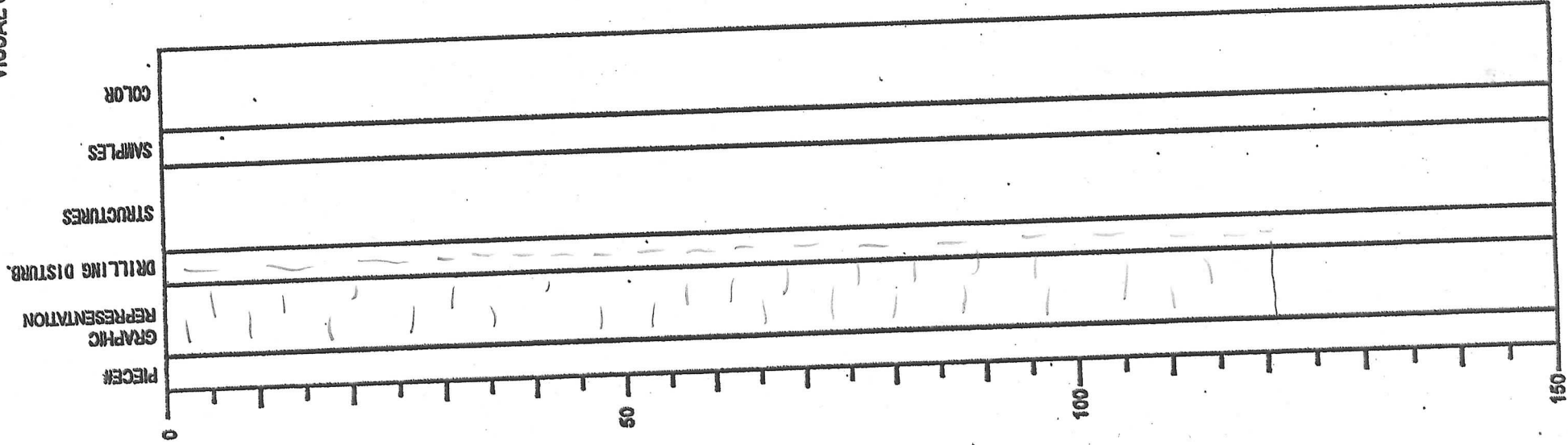
VISUAL CORE DESCRIPTION



SECTION DESCRIPTION

VISUAL CORE DESCRIPTION

DATE: 21 / 12 / 2007  
EXP: 316  
SITE/HOLE: C0004-C  
CORE: 2M  
SECTION: 6  
OBSERVER: UN/CF



SECTION DESCRIPTION

greenish-gray silty clay

minor very thin green bands

small dk gray nodules(?)

slight drilling disturbance

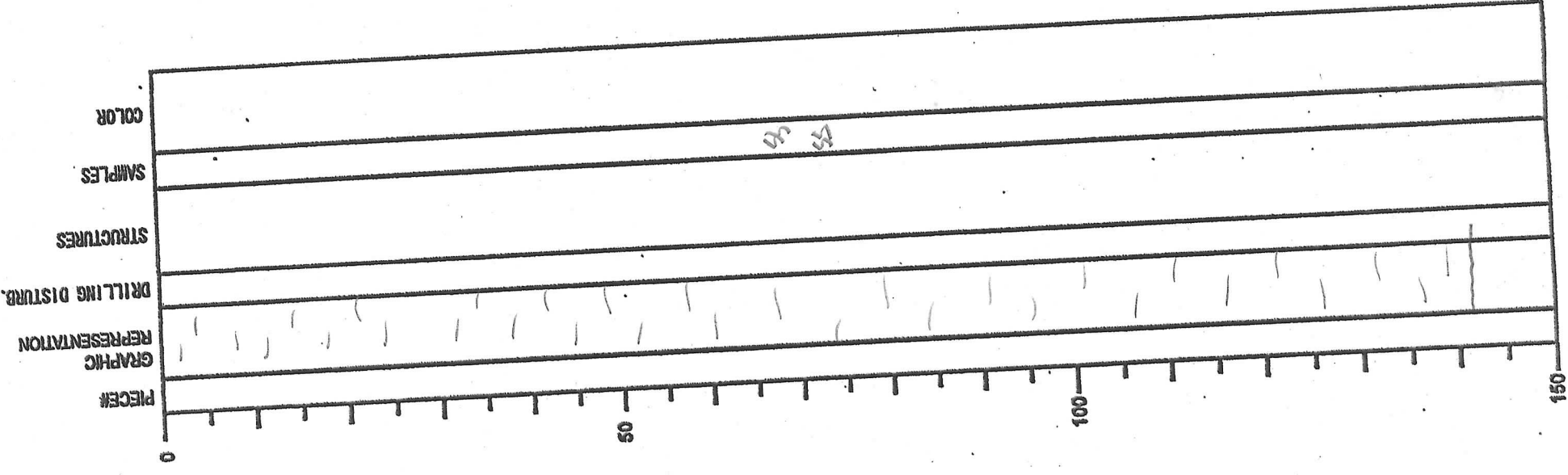
DATE: 4/1/71  
EXP: 316  
SITE/HOLE: C0004-C  
CORE: 24  
SECTION: 7  
OBSERVER: UN/cf

INTELLIGENCE VULNERABILITY DIVISION  
VISUAL CORE DESCRIPTION

SECTION DESCRIPTION
Pieces#
GRAPHIC REPRESENTATION
DRILLING DISTURB.
STRUCTURES
SAMPLES
COLOR

IW

DATE: 2/12/2007  
EXP: 316  
SITE/HOLE: C004-C  
CORE: 2H  
SECTION: 8  
OBSERVER: UN/CF



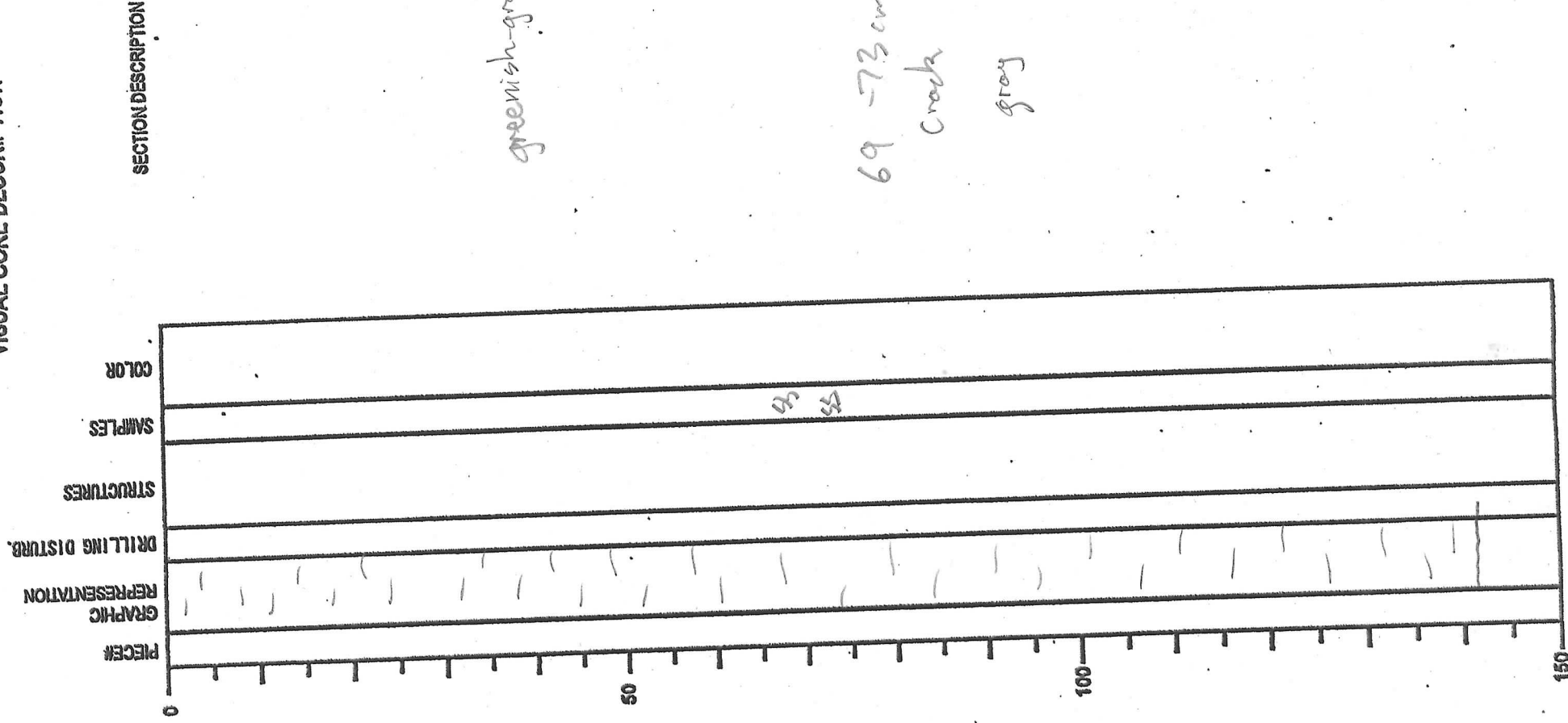
SECTION DESCRIPTION

greenish-gray silty clay

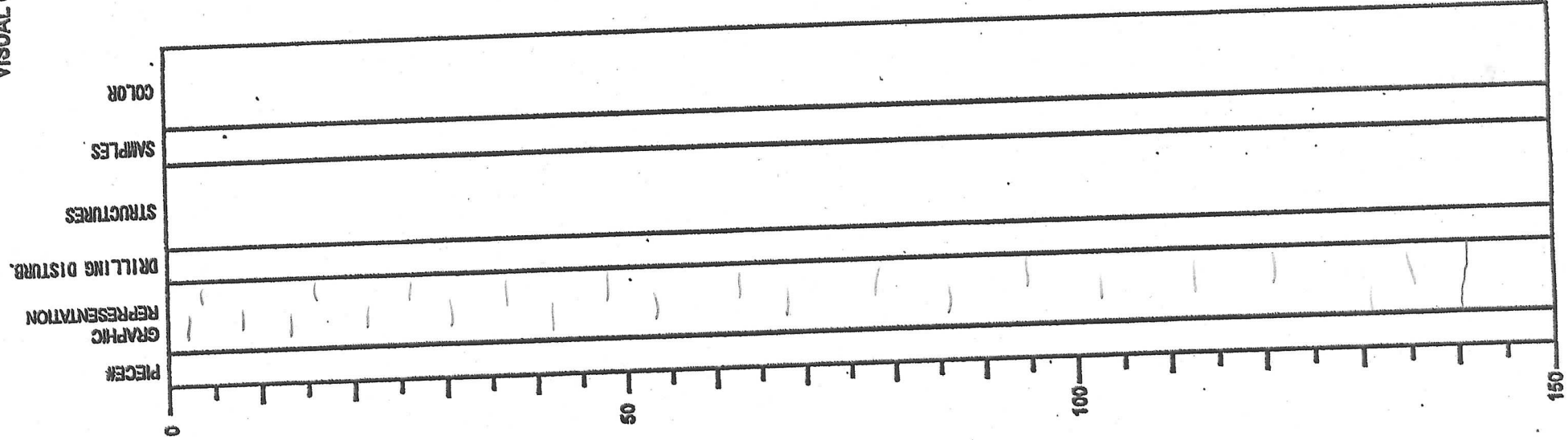
69 - 73 cm drilling induced  
crack  
gray



DATE: 21/12/2007  
EXP: 3/6  
SITE/HOLE: C0004C  
CORE: 2H  
SECTION: 8  
OBSERVER: UN/CF



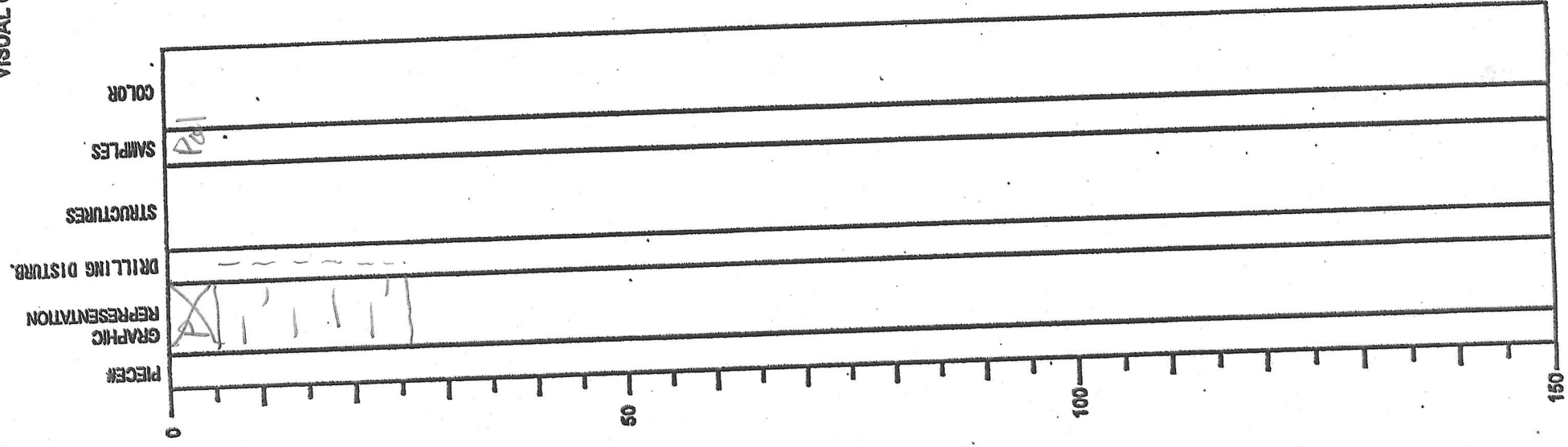
DATE: 2/12/20 07  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 2N  
SECTION: 9  
OBSERVER: CLF



SECTION DESCRIPTION

green/gray silty clay  
dispersed dk gray nodules  
some thin green colour  
bands (15-50cm)

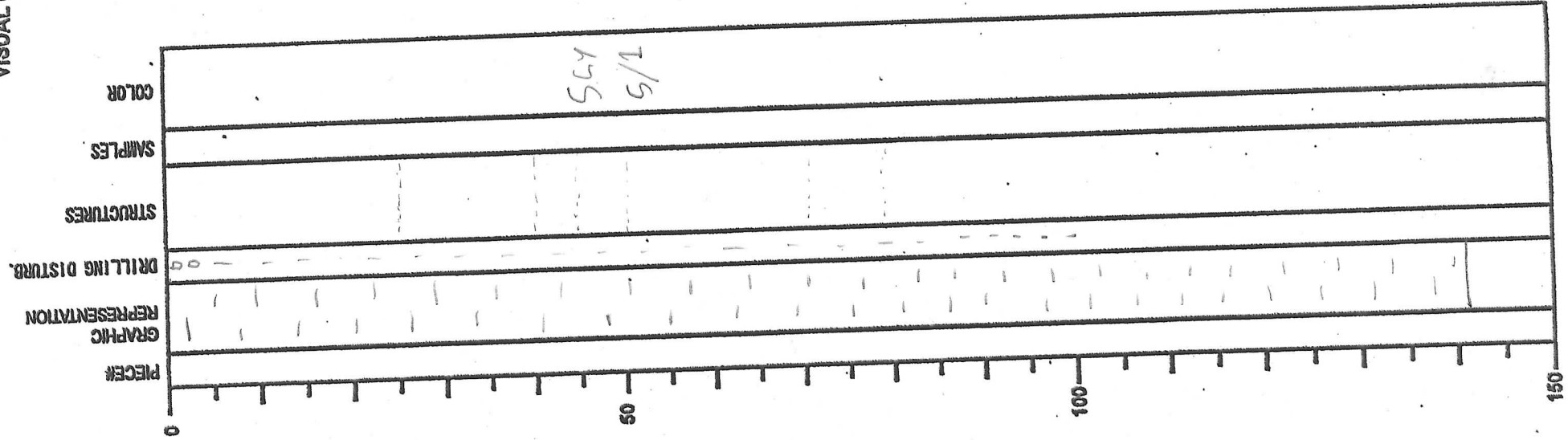
DATE: 21/12/2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 2H  
SECTION: CC  
OBSERVER: CLF



SECTION DESCRIPTION

green/gray silty clay  
slight drilling disturbance

DATE: 21 / 12 / 2007  
 EXP: 316  
 SITE/HOLE: 00004C  
 CORE: 3H  
 SECTION: ~~EE~~ 1  
 OBSERVER: UN



**SECTION DESCRIPTION**

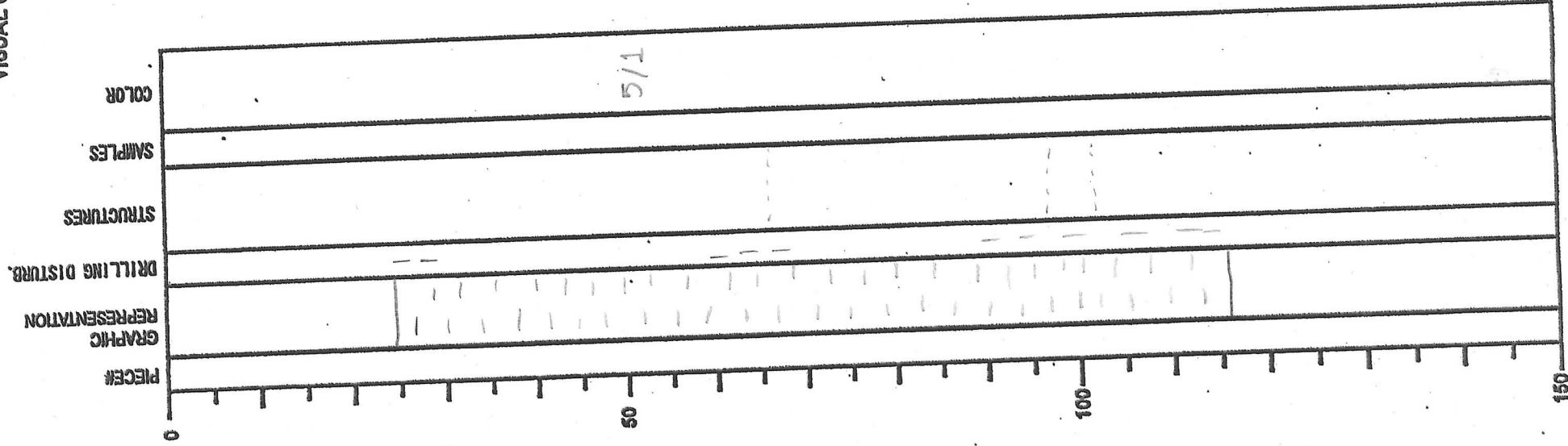
greenish grey silty clay, homogeneous and structureless.  
 Greenish column bank are common throughout  
 - most prominent at 24 cm, 40, 45, 51, 71, 78 cm

- small (20-5 cm) pieces that partially revealed

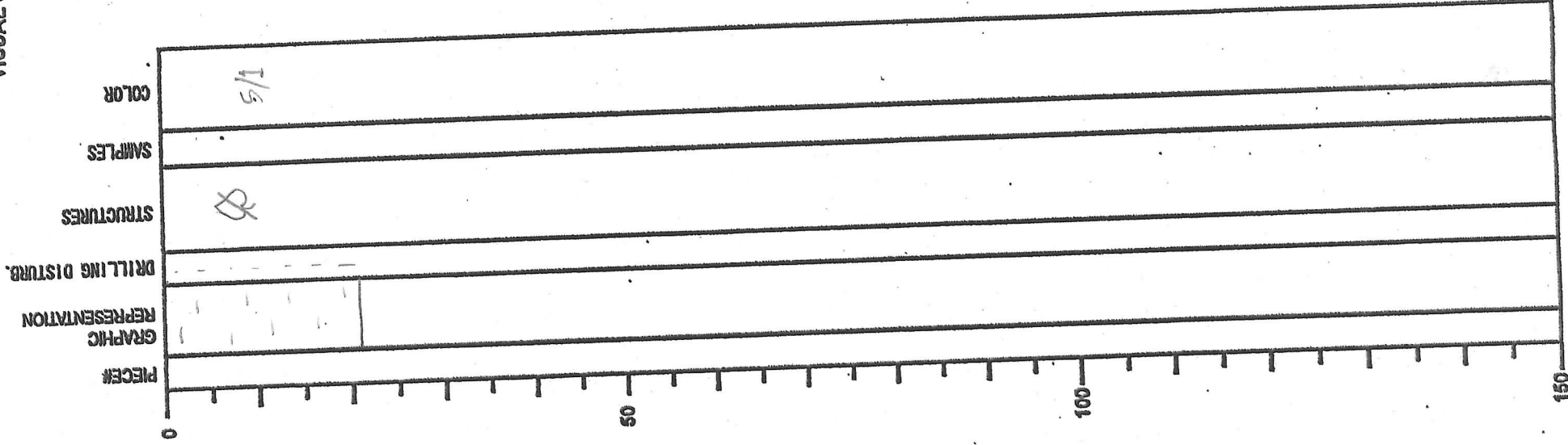
occ. grey block nature (arsenic matter) (20 cm)

DATE: 21 / 12 / 2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 3H  
SECTION: 2  
OBSERVER: UN

greenish-grey silty clay, Occ green  
Lenses of at 67cm, 97cm, 103cm, though  
less prominent than previous core



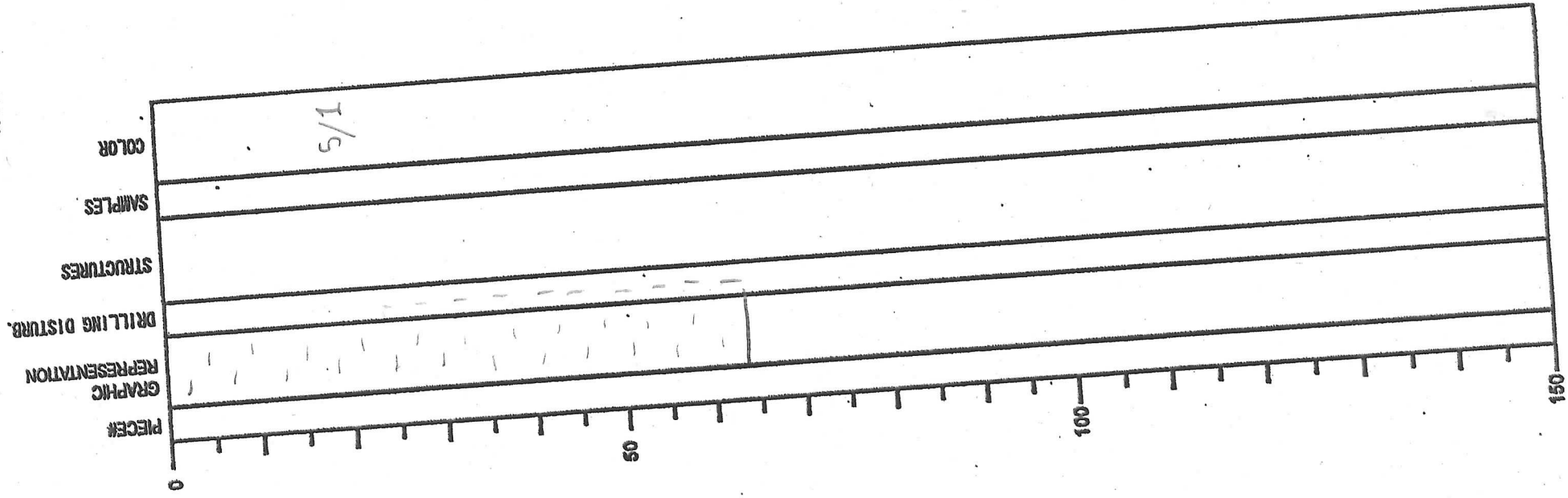
DATE: 21 / 12 / 2007  
EXP: 3/6  
SITE/HOLE: C0004C  
CORE: 3H  
SECTION: 3  
OBSERVER: UN



SECTION DESCRIPTION

greenish-grey silty clay.  
Wind fragmented - 2cm

DATE: 21 / 12 / 2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 3H  
SECTION: 4  
OBSERVER: UN



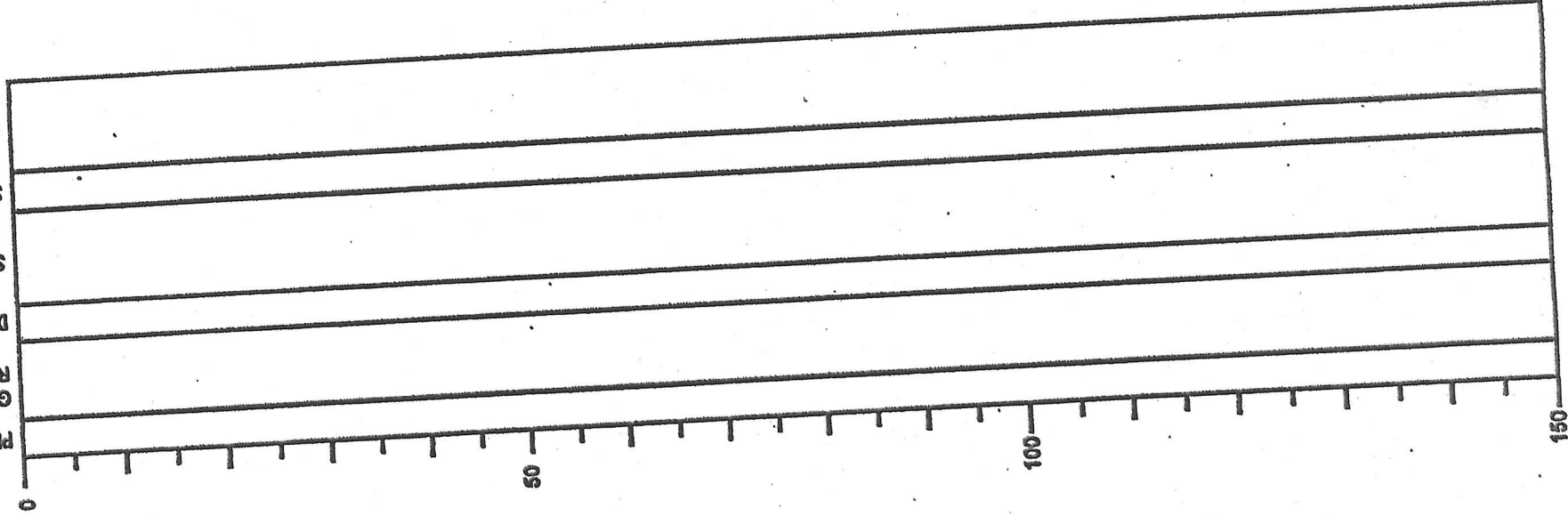
SECTION DESCRIPTION

greenish grey silty clay. homogeneous  
except for occ. pale green color  
bands.

DATE: 21 11/2/2007  
EXP: 316  
SITE/HOLE: C 0004-C  
CORE: 3H  
SECTION: 5  
OBSERVER: UN

VISUAL CORE DESCRIPTION

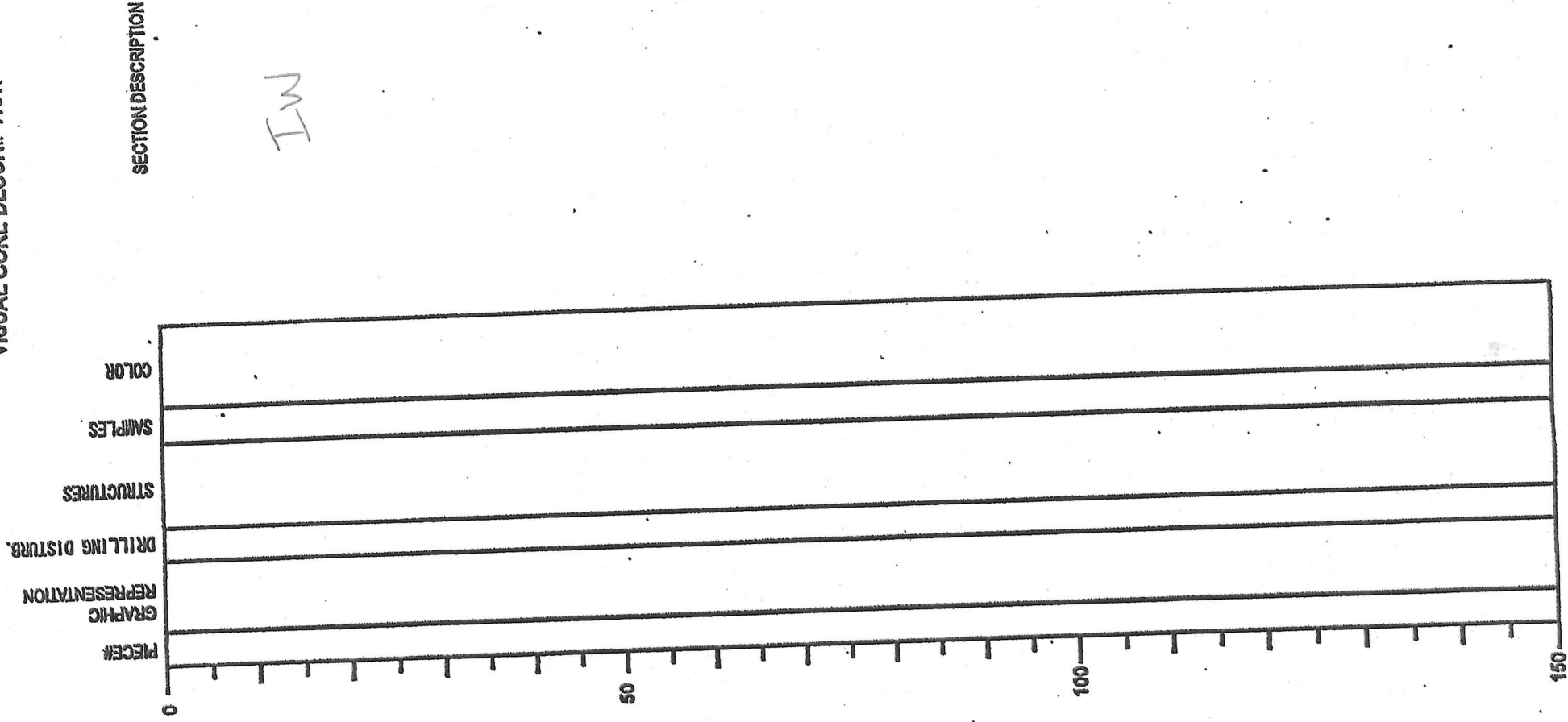
PIECE#  
GRAPHIC  
REPRESENTATION  
DRILLING DISTURB.  
STRUCTURES  
SAMPLES  
COLOR  
SECTION DESCRIPTION



IW

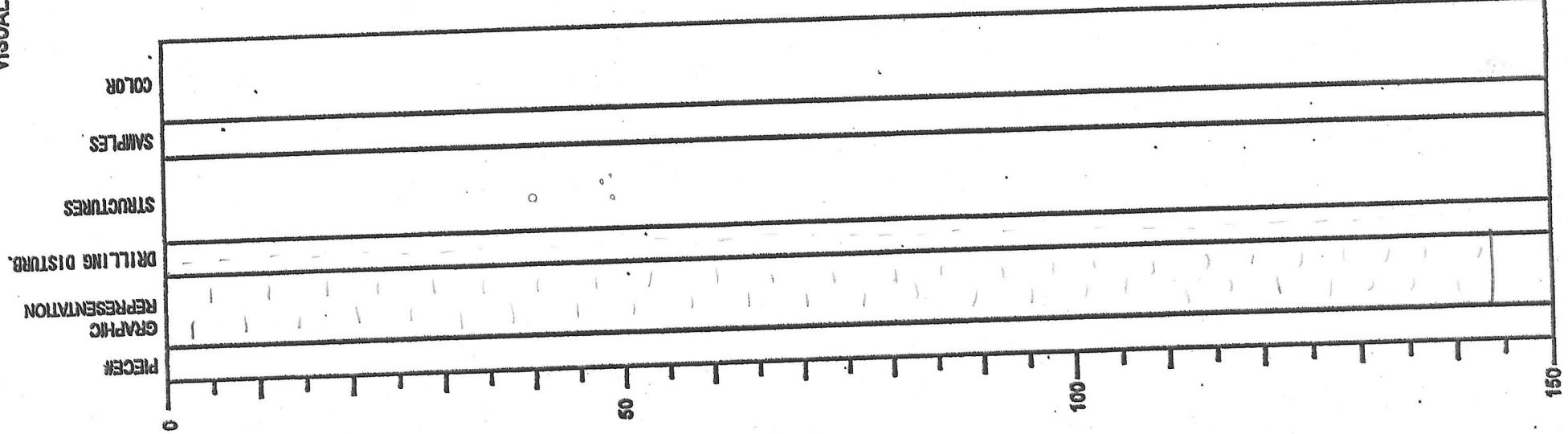


DATE: 21 / 12 / 20 07  
EXP: 3/6  
SITE/HOLE: C 0004-C  
CORE: 3H  
SECTION: 5  
OBSERVER: UN



VISUAL CORE DESCRIPTION

DATE: 21/12/2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 3A  
SECTION: 6  
OBSERVER: UN



SECTION DESCRIPTION

greenish grey silty clay. Occ. green bands throughout. Most prominent at 55; 93, 118, 140 cm.

- purple clay (4mm)

- isolated volcanoclastic(?) 'clasts' - or crushed pumice aggregates

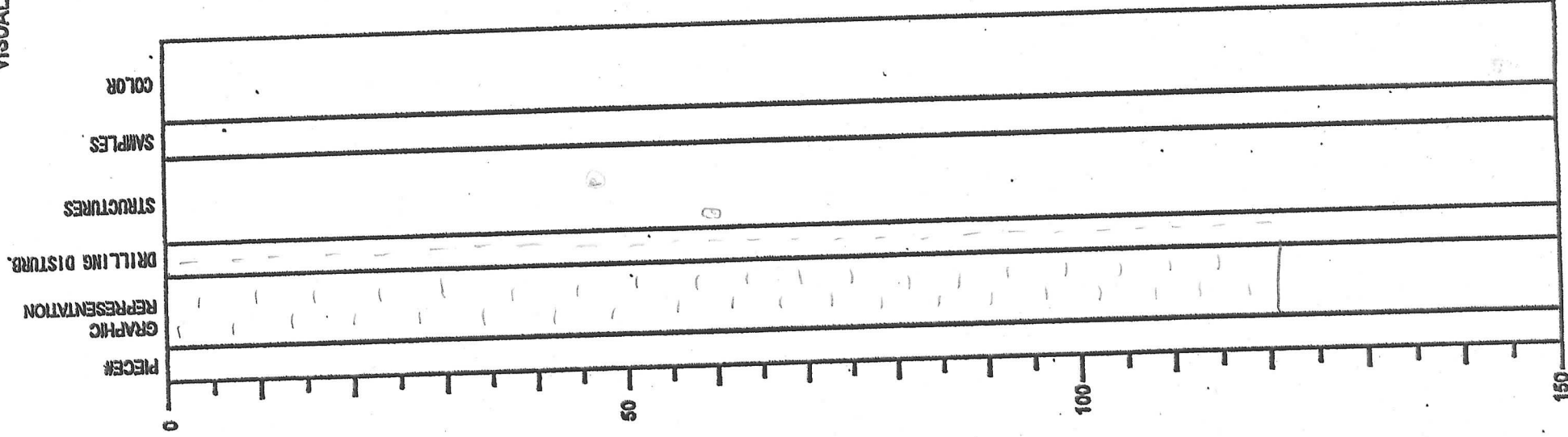
DATE: 21/12/2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 3H  
 SECTION: 7  
 OBSERVER: UN

SECTION DESCRIPTION

green-grey silty clay. Non organic except  
 for green colour band throughout  
 - including green 'rib' possibly with  
 organic matter in middle @ 60cm.

occ scattered micae dust.

occ black (organic rich) nodules.



DATE: 21/12/2007  
EXP: 316  
SITE/HOLE: C 0004-C  
CORE: 3H  
SECTION: 8  
OBSERVER: UN

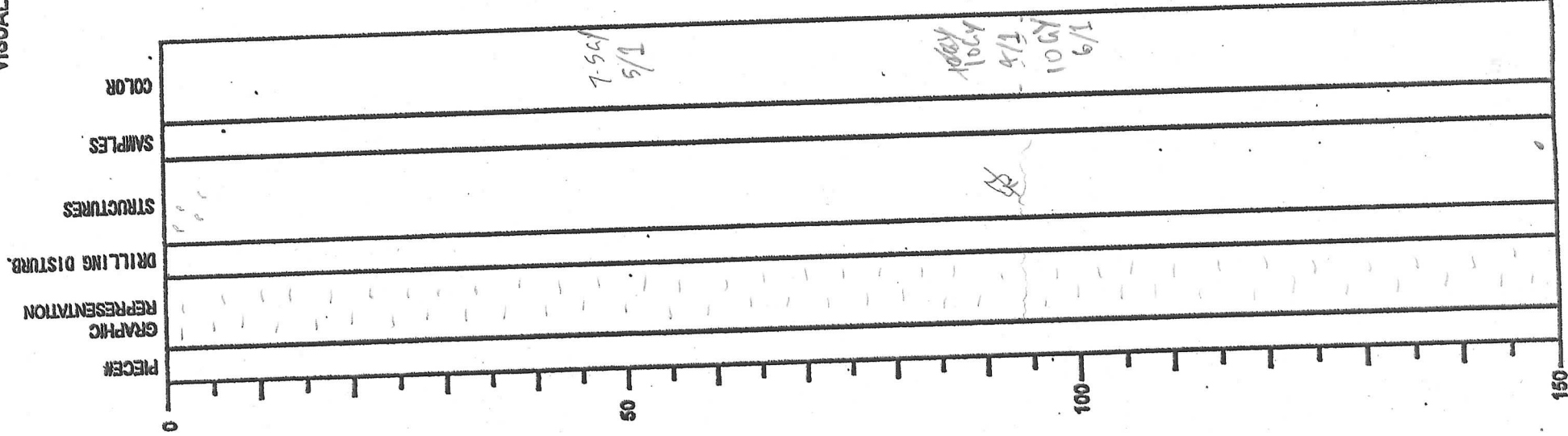
IW

VISUAL CORE DESCRIPTION

SECTION DESCRIPTION	PIECES#	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
	0					
	50					
	100					
	150					

VISUAL CORE DESCRIPTION

DATE: 21 / 12 / 20 07  
EXP: 316  
SITE/HOLE: C 500 4c  
CORE: 3H  
SECTION: 9  
OBSERVER: VN



SECTION DESCRIPTION

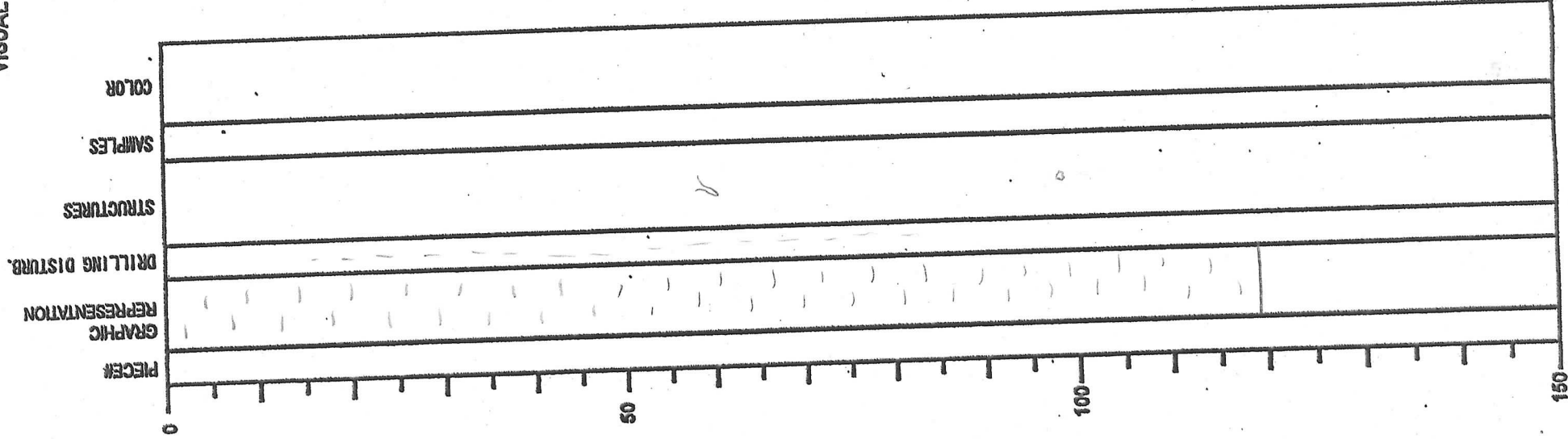
scattered purple - cut by sm + shuffard.  
green - grey silty clay, occasional green colour bands.  
More subtle colour changes than present in this core - eg at 94cm.

- colour change

isolated granule

VISUAL CORE DESCRIPTION

DATE: 21 / 12 / 2007  
EXP: 316  
SITE/HOLE: C 0004c  
CORE: 34  
SECTION: 19  
OBSERVER: UN



SECTION DESCRIPTION

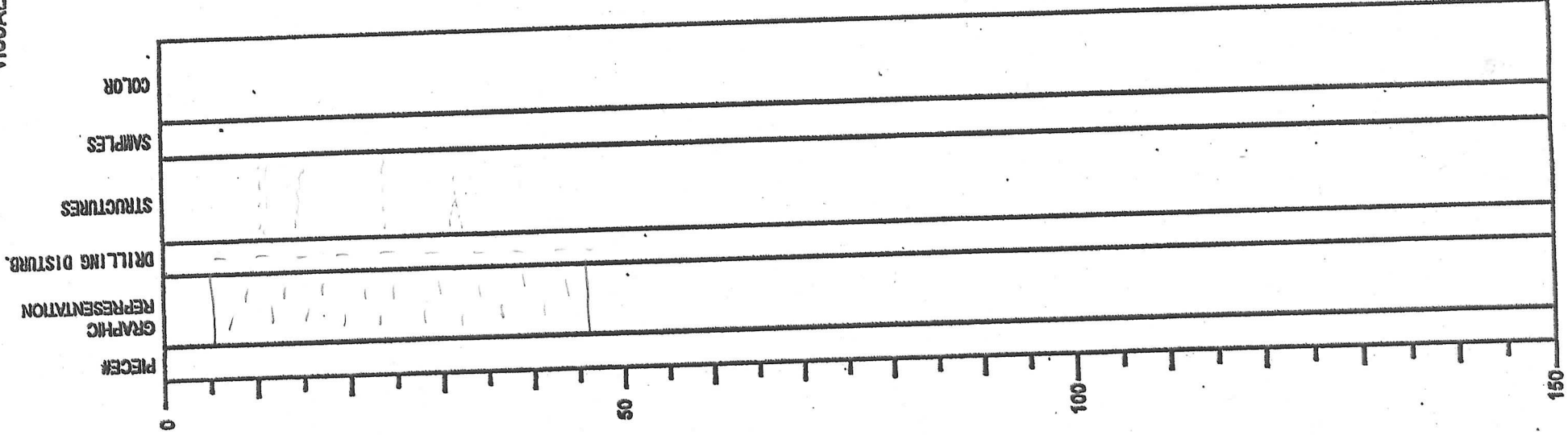
green-grey silty clay

scattered pumice

- probable burrows (couple cms) cutting green bands

- white leached material - (or old pellet clay???)  
green band throughout, most prominent at  
107 and 113 cm

DATE: 21 / 12 / 2007  
EXP: 316  
SITE/HOLE: C 000 + C  
CORE: 3H  
SECTION: C C (11)  
OBSERVER: UN



SECTION DESCRIPTION

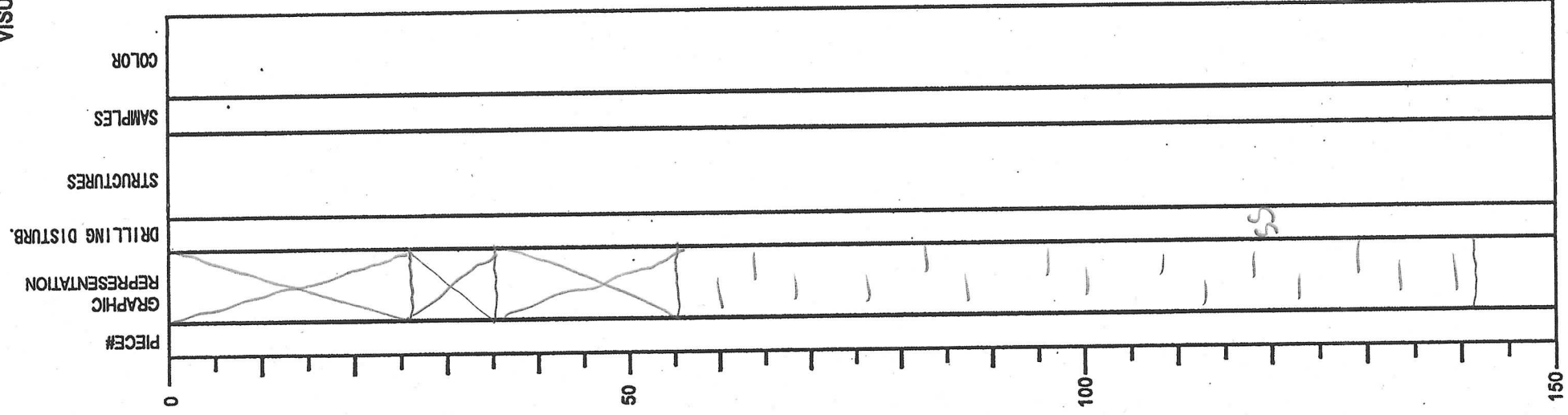
greenish grey silty clay  
green bands throughout, most prominent ca  
10, 13, 23, 23 cm

INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. 316  
DATE: 21/12/2007  
EXP: 316  
SITE/HOLE: C0004-C  
CORE: 44  
SECTION: 1  
OBSERVER: CLF

SECTION DESCRIPTION

WR



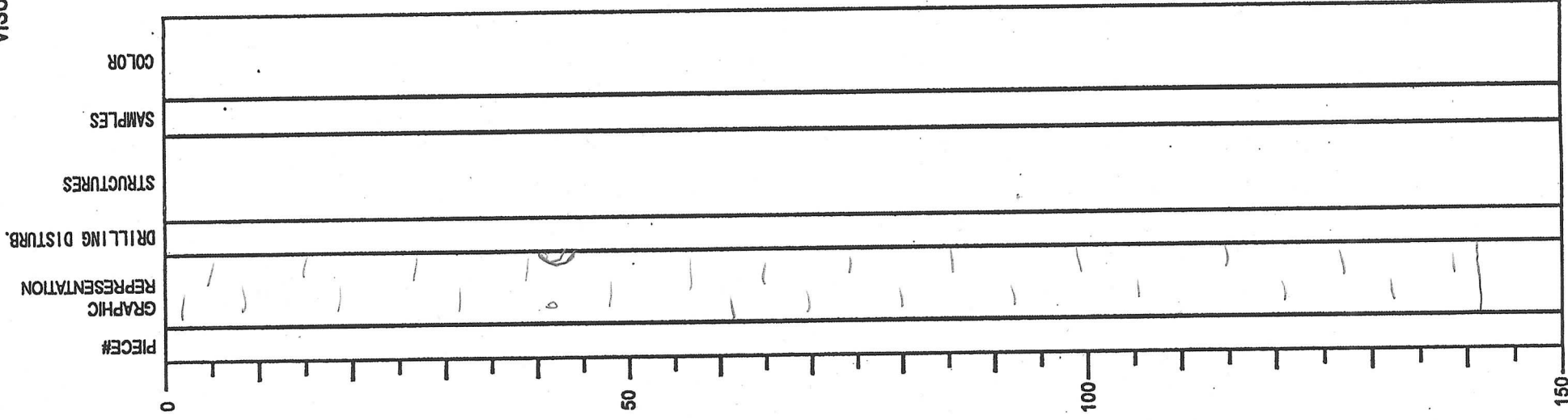
greenish-gray silty clay  
pumice fragments(?) at  
67cm  
White bits (small ~mm)  
Scattered - ss at 97cm  
Crack in sponge spicules  
ss - 120cm (silty clay)



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. DATE: 21/12/2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 4H  
SECTION: 2  
OBSERVER: CLF

SECTION DESCRIPTION



Glauconite nodule - ss - 41-44cm

greenish-gray silty clay

more scattered small  
white blobs

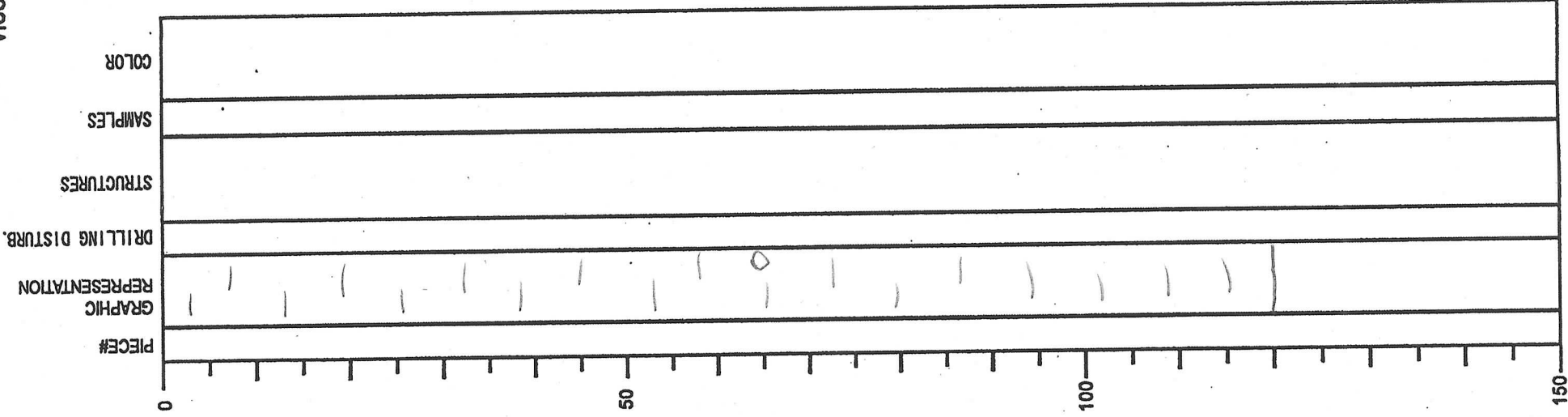
INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 21 / 12 / 20 07  
EXP: 316  
SITE/HOLE: C00046  
CORE: 4H<sub>3</sub>  
SECTION: 3  
OBSERVER: CLF

SECTION DESCRIPTION

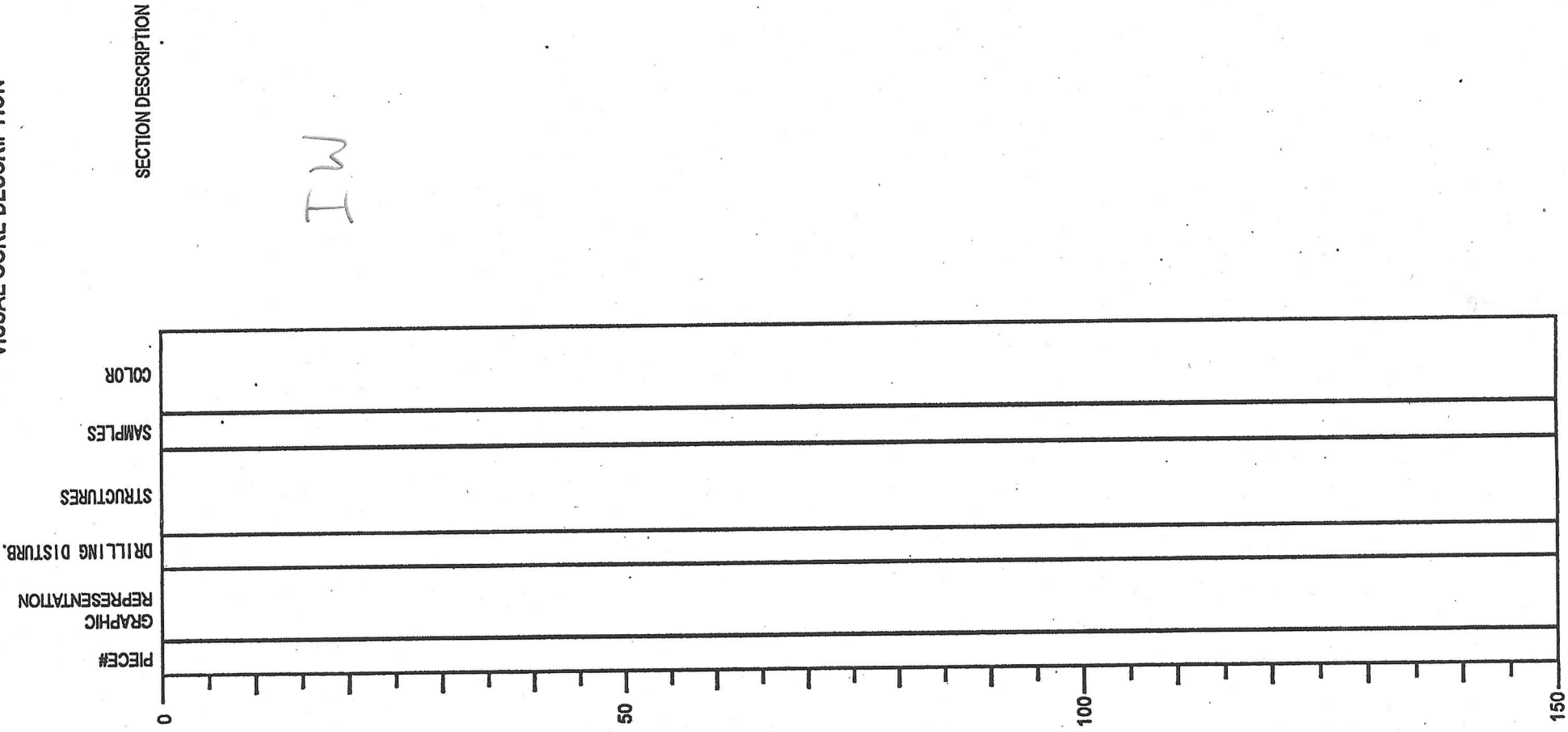
greenish-gray silty clay

Pyrite nodules 64 cm



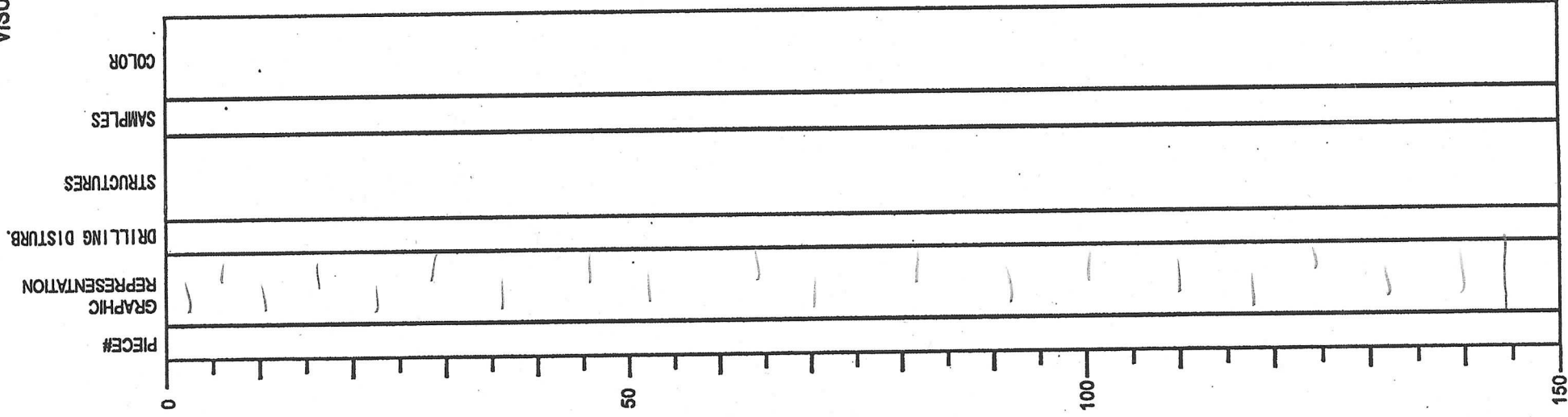
INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 21 / 12 / 2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 44  
SECTION: 4  
OBSERVER: CLF



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 21/12/2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 4H  
SECTION: 5  
OBSERVER: CUF



SECTION DESCRIPTION

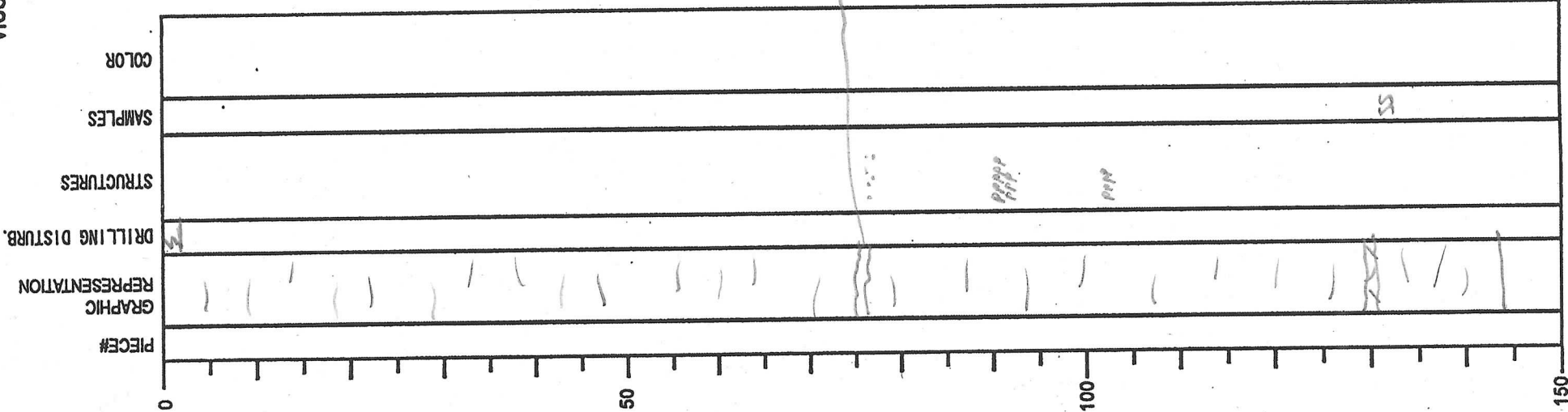
greenish-gray silty clay

71 cm more small white blobs

120-135 cm more small white blobs

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. DATE: 21 / 12 / 2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 4H  
 SECTION: 6  
 OBSERVER: CLF



SECTION DESCRIPTION

greenish-gray silty clay  
 with 2-5mm thick thin greenish  
 and dispersed lapilli  
 bright mottled patches dispersed ash?  
 open crack in core  
 sand patches 5mm 7.5-80cm  
 (about volcanic origin?)  
 50cm patch of scattered lapilli  
 102cm dispersed lapilla  
 Ash layer 129-131cm

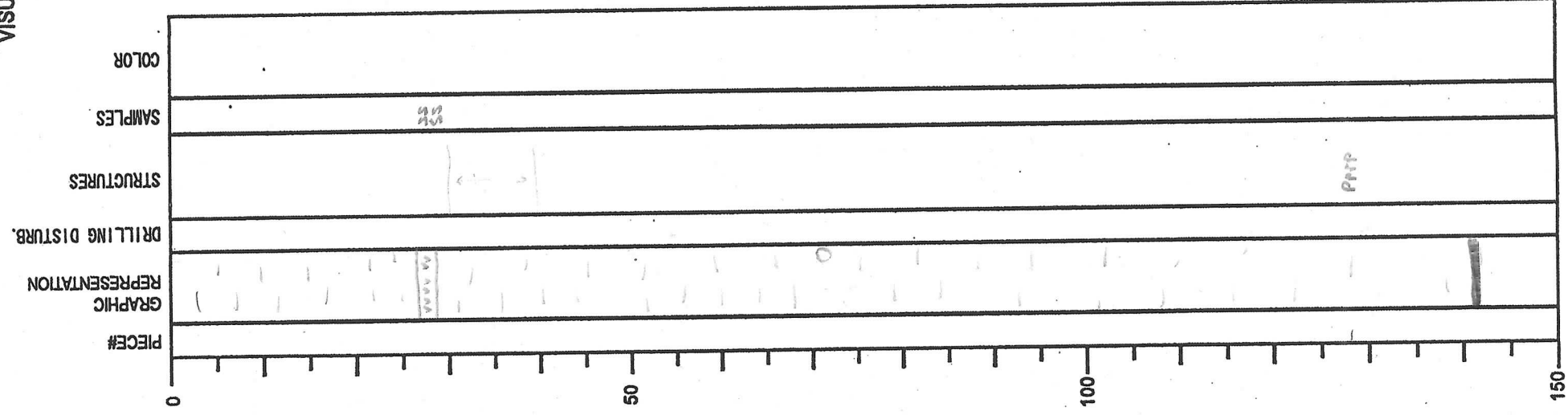
**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 21 MAR 12007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 4H  
 SECTION: 7  
 OBSERVER: M. de S.V.

**SECTION DESCRIPTION**

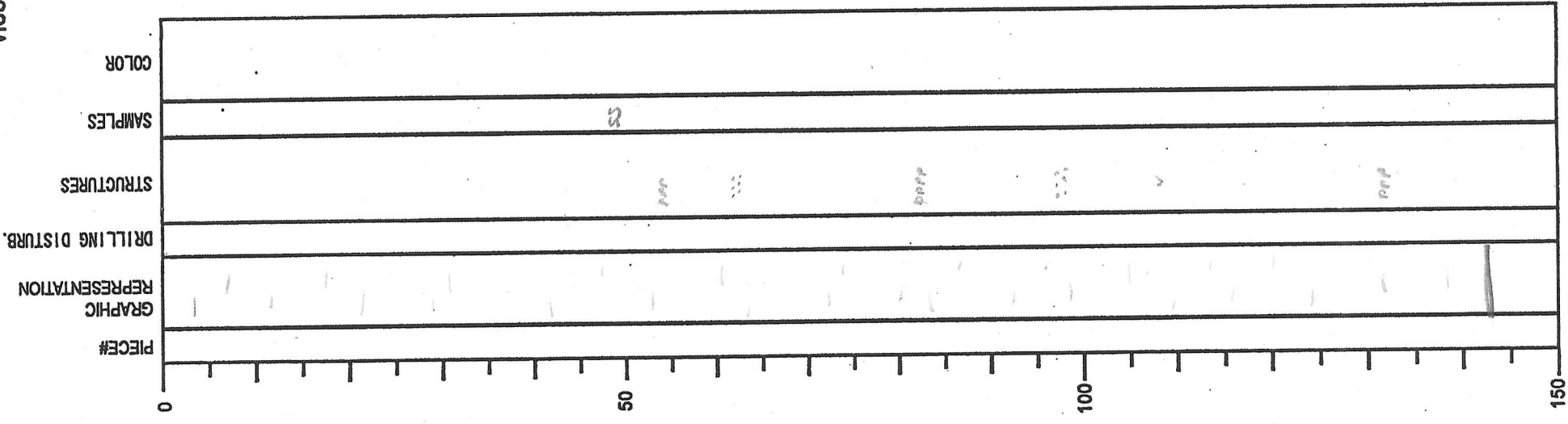
greenish gray silty clay  
 with color bands and dispersed lapilli  
 and pieces of pumice

24  
 light greenish gray  
 sharp contact  
 dark gray  
 light gray  
 sharp contact  
 occasional coarse  
 3 distinct ash layers  
 patches of volcanic ash



**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 21 / 12 / 20 07  
 EXP: 316  
 SITE/HOLE: C00042  
 CORE: 407  
 SECTION: 2  
 OBSERVER: Nick Str.



**SECTION DESCRIPTION**

greenish gray silty clay  
 with green color bands and dispersed lapillis  
 + traces of pyrite dark + white

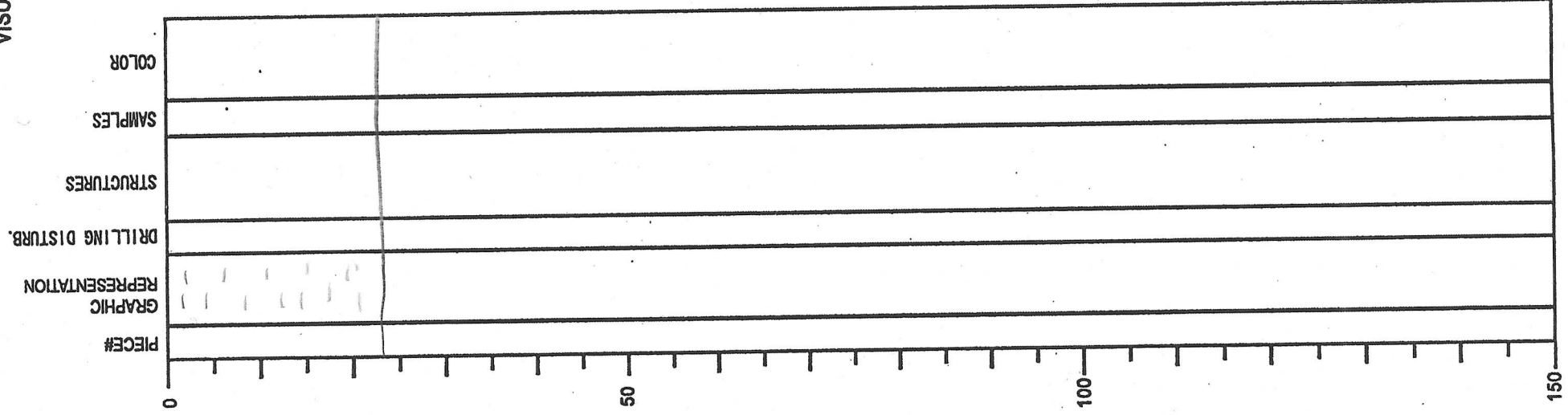
55cm dark lapilli  
 sand patch 6cm (presumably volcanic material)

83 dark lapilli  
 sand patch (probably volcanic material)  
 patch of volcanic ash 109

dark and light lapillis dispersed

INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 21 / 12 / 20 07  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 4H  
SECTION: CC  
OBSERVER: Mike Sr.



SECTION DESCRIPTION

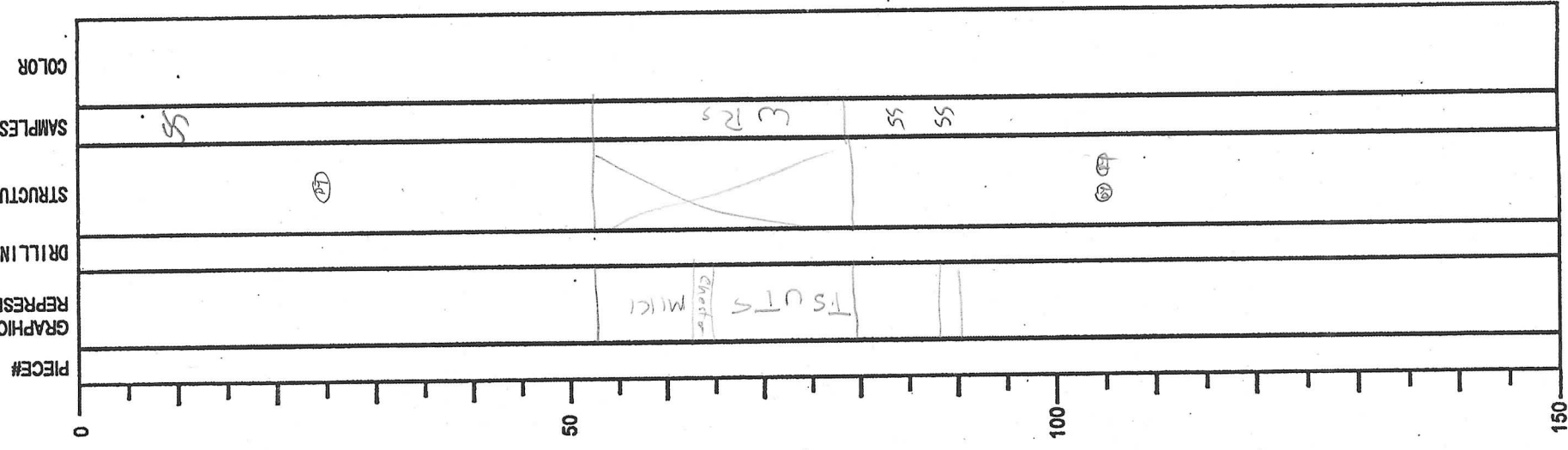
*ditto above*  
*non green spot (glauconite?)*



**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

34.9-44.38 M65f

NO. 1  
DATE: 12/21/2007  
EXP: 3/6  
SITE/HOLE: C0004C  
CORE: 5H  
SECTION: 1  
OBSERVER: kcm/ms



SECTION DESCRIPTION

0-144

greenish gray silty clay  
w/ some greenish banding +  
color mottling  
local volcanoclastic material -  
distributed ash pellets and thin ash layers  
(88-90)

- pellet?  
ash, partly dispersed

**INTEGRATED OCEAN DRILLIGN PROGRAM**  
**VISUAL CORE DESCRIPTION**

NO. 2  
 DATE: 12/20/07  
 EXP: 316  
 SITE/HOLE: C0004  
 CORE: 5H  
 SECTION: 2  
 OBSERVER: KUMMS

PIECE#	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR
	HOUSE			WR	
	ANNA			WR	
	CUT			WR	
	INAC			WR	

SECTION DESCRIPTION

0-65

WR

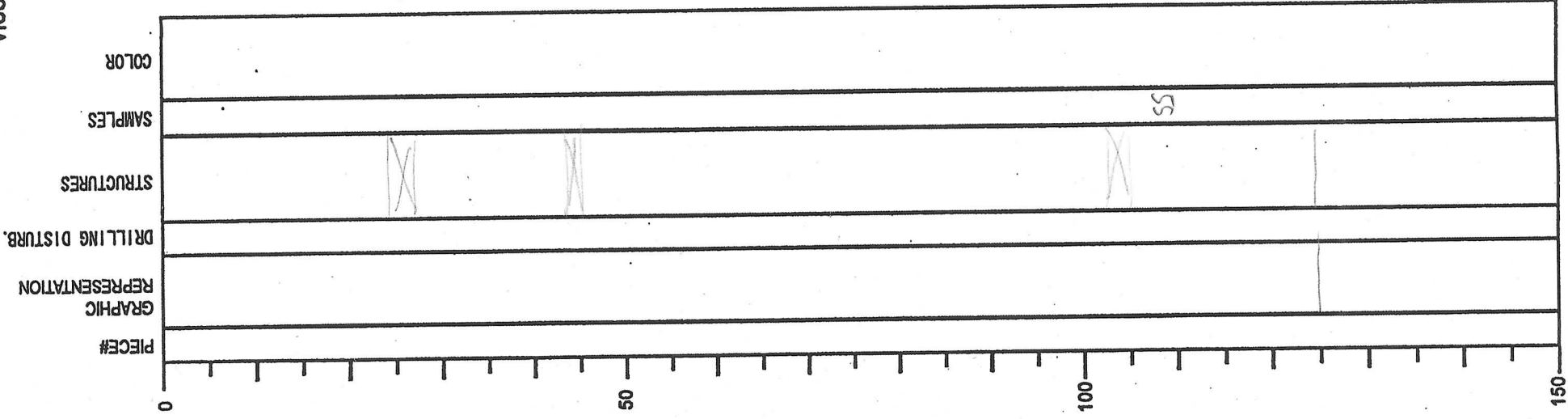
65-149

greenish-gray silty clay w/  
 green color mottling occasional  
 1 cm banding  
 dispersed ash + lapilli throughout

py. nodule

**INTEGRATED OCEAN DRILLIGN PROGRAM**  
**VISUAL CORE DESCRIPTION**

NO. 3  
 DATE: 12/21/2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: S14  
 SECTION: 3  
 OBSERVER: KUM/MS



SECTION DESCRIPTION

0-125

greenish gray silty clay w/  
 greenish color banding and  
 mottling throughout

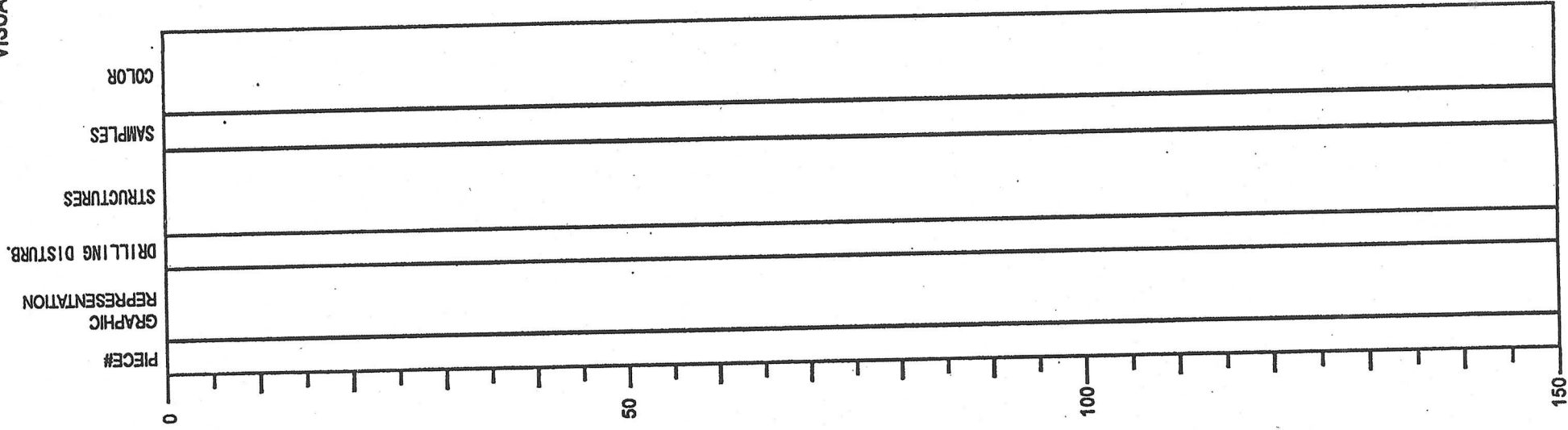
dispersed ash + lapilli

**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. 4  
DATE: 12 / 21 / 20 07  
EXP: 315  
SITE/HOLE: C0004C  
CORE: 5H  
SECTION: 4  
OBSERVER:

SECTION DESCRIPTION

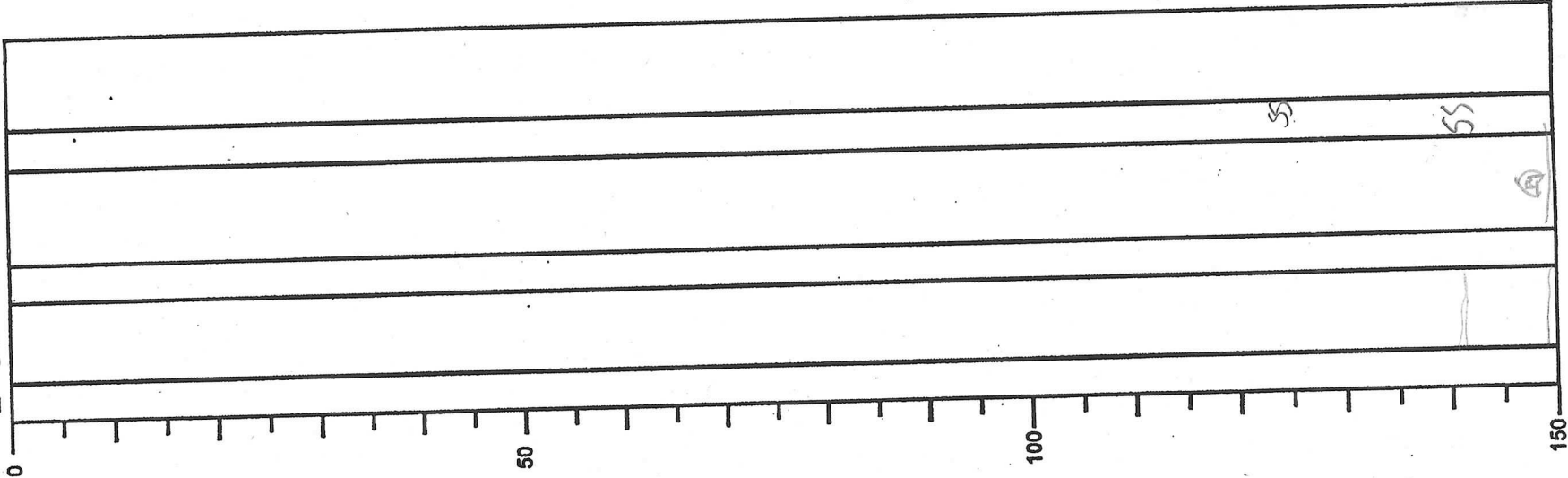
IW



**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. 5  
DATE: 12 / 21 / 20 07  
EXP: 315  
SITE/HOLE: C0004 C  
CORE: 5H  
SECTION: 5  
OBSERVER: KLM/MS

SECTION DESCRIPTION



0 - 149

greenish-gray silty clay  
w/ some green banding +  
mottling as above

dispersed ash + lapilli; throughout

in CT: dense spots appear  
to be branching tubes -  
→ ? pyritized burrows??

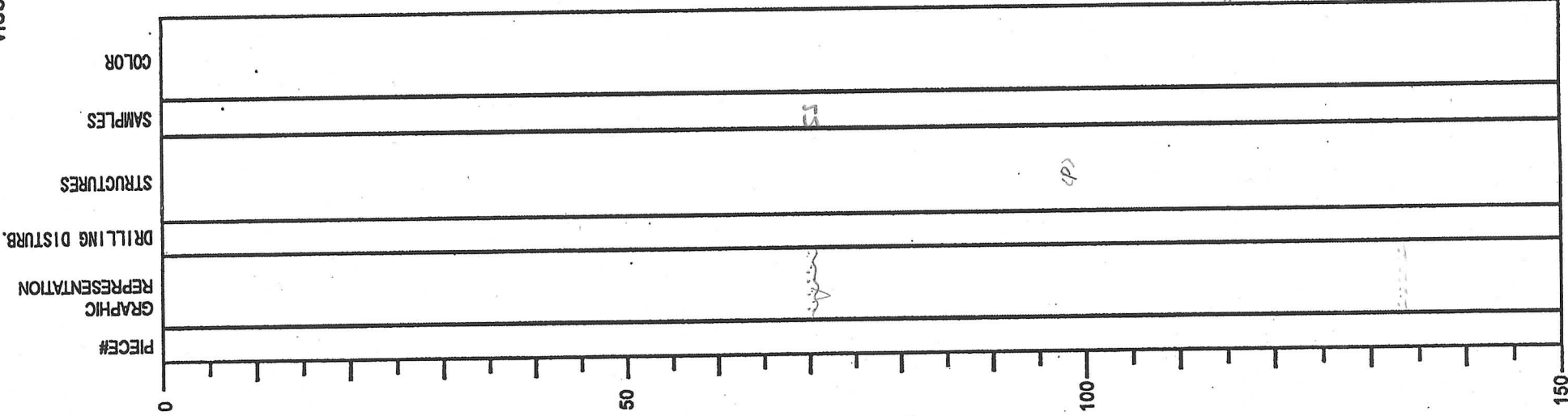
ash concentration  
green (? glauconitic?) halo  
possible evidence that some  
ash accum are not lapilli,  
but burrow fills

green spot

ash

**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. **6**  
 DATE: **1 / 120**  
 EXP: **316**  
 SITE/HOLE: **CO004C**  
 CORE: **5H**  
 SECTION: **6**  
 OBSERVER: **Ann / ms**



**SECTION DESCRIPTION**

*greenish gray silty clay  
 with some green banding and  
 mottling as above  
 dispersed lignite and ash throughout*

*silty sand layer with occasional spongy and borrow  
 structures filled with white (volcanic?) material  
 and a greenish base around*

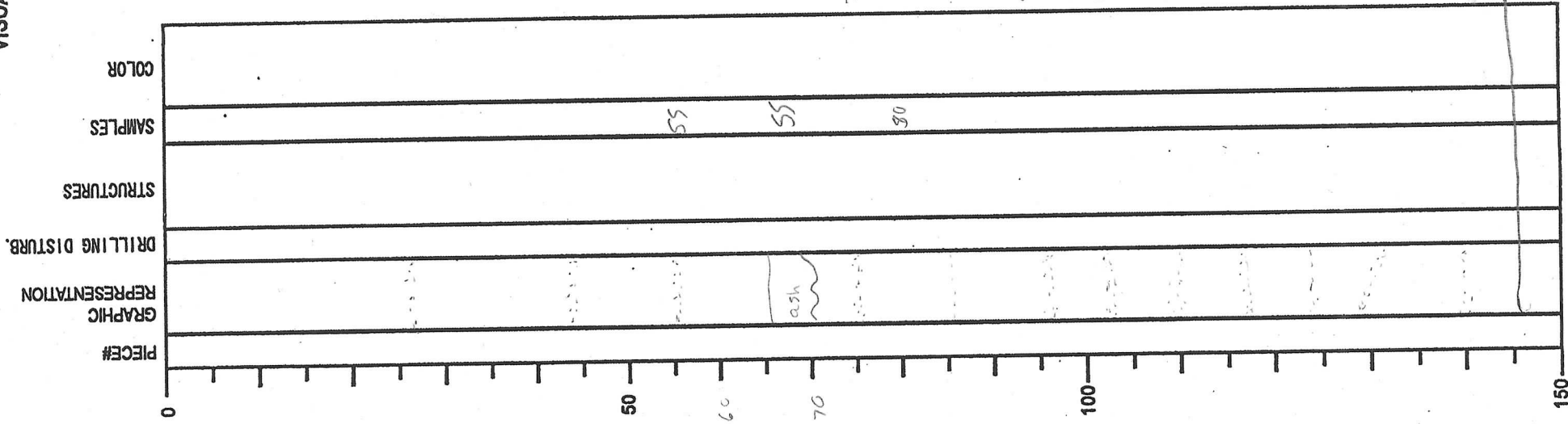
*Pyrite at 97 cm nodules within a layer*

*~~Sand~~ silty sand patch*

*silty sand layer 0.5cm*

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. **7**  
 DATE: 11/12/2007  
 EXP: 316  
 SITE/HOLE: 00004C  
 CORE: 5H  
 SECTION: **7**  
 OBSERVER: km/m/s



SECTION DESCRIPTION

~~Clay and Lithology~~  
 greenish gray silty clay  
 with greenish banding and sc. M. clay  
 and dispersed lapilli and silt throughout  
 (slightly less volcanic stuff and traces of dispersed  
 grains from minor lithology  
 near Lithology: fine  
 sandy (fine sand) silt layer with dr. top like fragments

with eroded basal and banding

apparent inclusion of  
 Sand + Ash layer ~10'

poss. erod. base

75-76

85

95-96

103-104

110-111

117

124

129-131

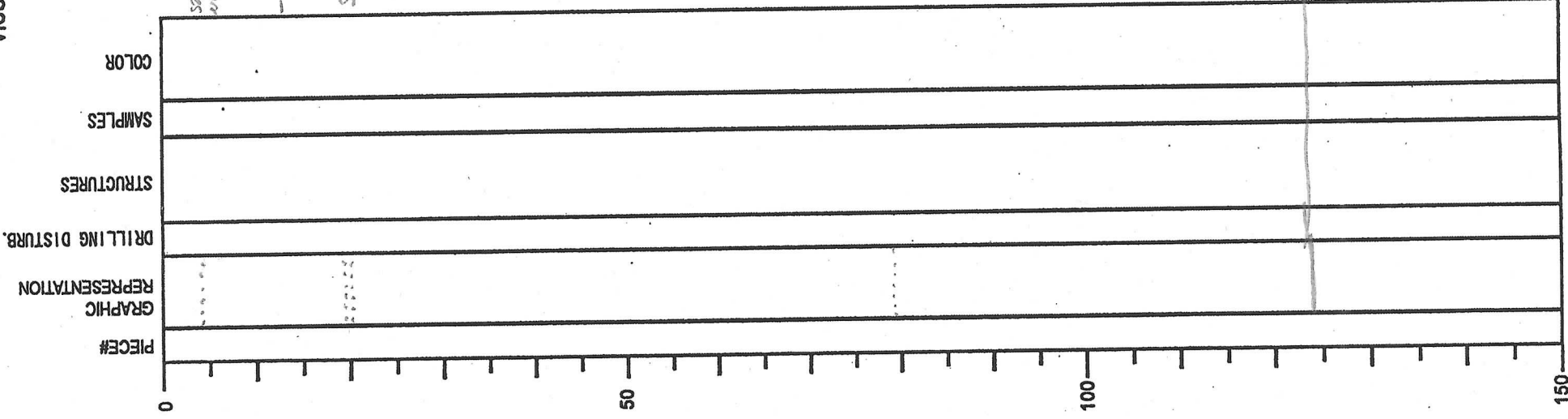
146

**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 21 12 120  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 5H  
 SECTION: 8  
 OBSERVER: km/m.s

SECTION DESCRIPTION

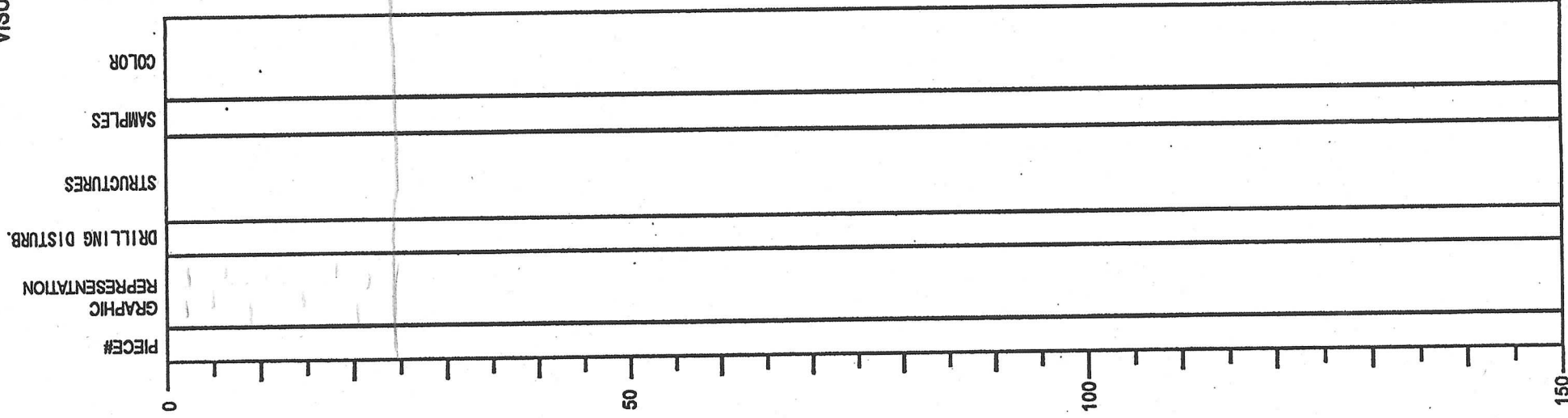
*sand +  
erosion*  
*dite dominant and minor clay*  
*as section*  
*- dispersed with at 5cm*  
*sand, silt, ~~rock~~ eroded base*





INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: / / 20  
EXP: \_\_\_\_\_  
SITE/HOLE: \_\_\_\_\_  
CORE: SA  
SECTION: CC  
OBSERVER: \_\_\_\_\_



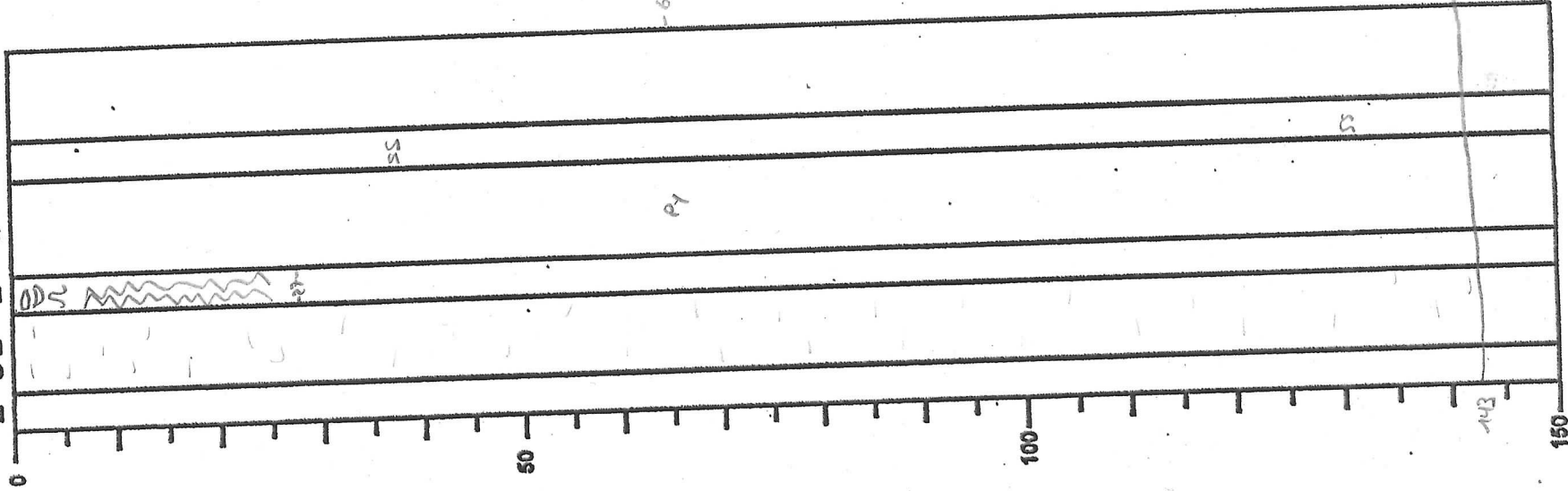
SECTION DESCRIPTION

*Normal lithology  
greenish gray silty clay  
black path, fine (pore?) at 10cm*

DATE: 21 11/2 120 07  
EXP: 316  
SITE/HOLE: C0004 C  
CORE: 6H  
SECTION: 1  
OBSERVER: km/ans

PIECE#  
GRAPHIC REPRESENTATION  
DRILLING DISTURB.  
STRUCTURES  
SAMPLES  
COLOR

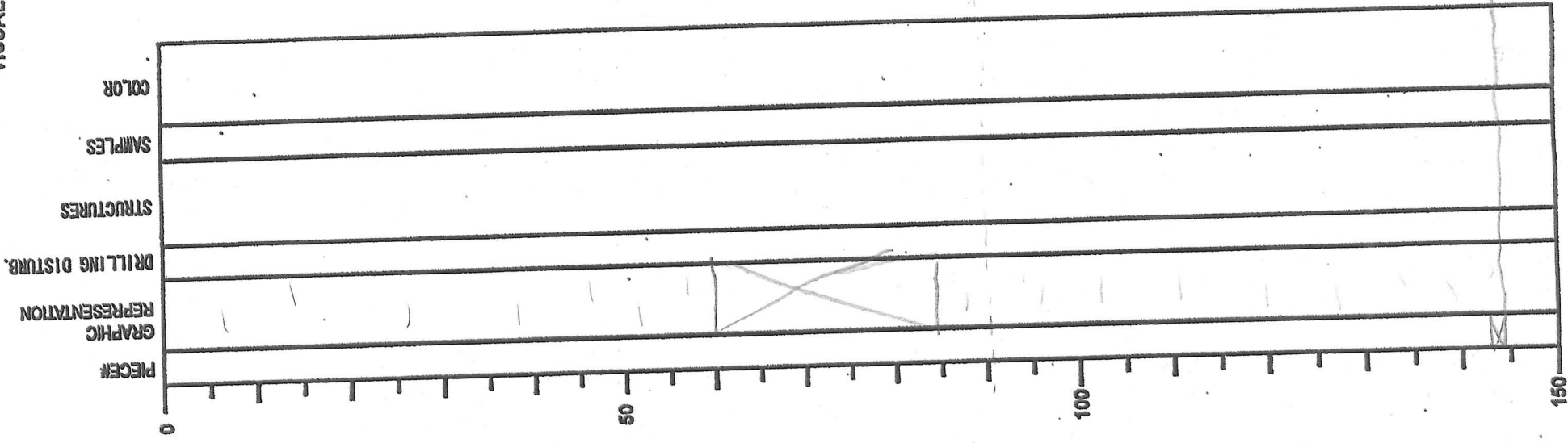
SECTION DESCRIPTION



mottled, greenish gray silty clay  
mottled texture made up of greenish  
and brownish - gray colors  
only traces of volcanic lapilli

patches of brownish gray color surrounded  
by a gray halo

DATE: 01/12/2007  
EXP: 316  
SITE/HOLE: C0004  
CORE: 6H  
SECTION: 2  
OBSERVER: KLM W.M.S



SECTION DESCRIPTION

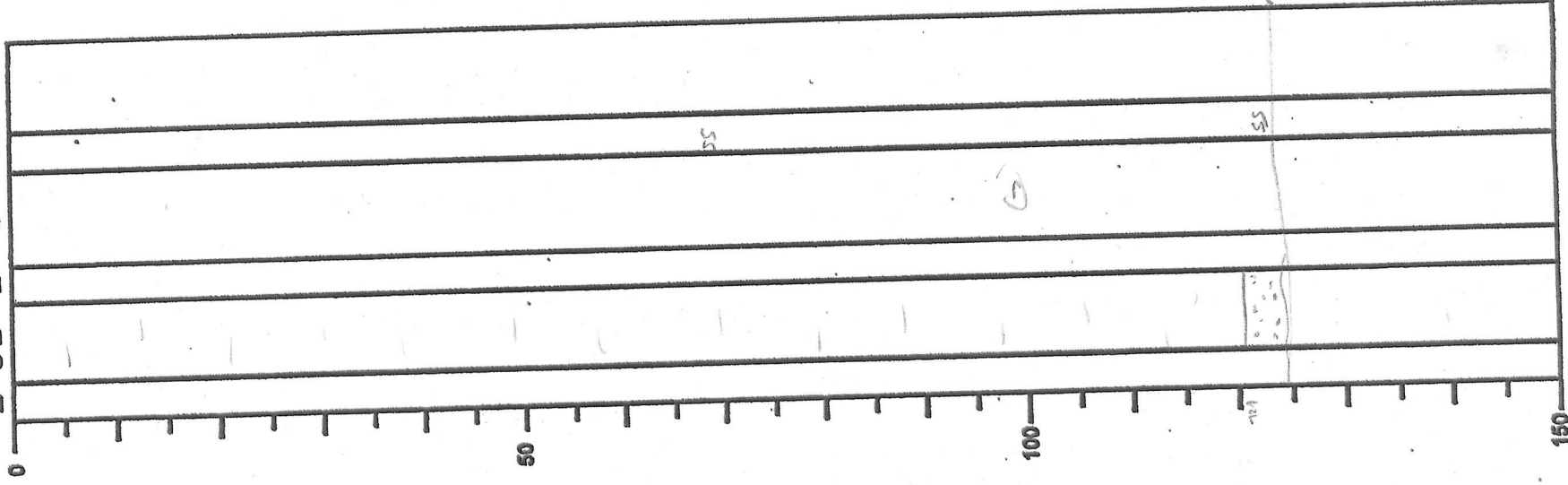
mottled greenish gray silty clay  
as above in section one

gradual  
homogeneous greenish gray silty clay  
180-334 green spots (glauconite?)

VISUAL CORE DESCRIPTION

3  
DATE: 12/15/2007  
EXP: 315  
SITE/HOLE: C0002  
CORE: 65R  
SECTION: 3  
OBSERVER: KLM/NS

PIECES  
GRAPHIC REPRESENTATION  
DRILLING DISTURB.  
STRUCTURES  
SAMPLES  
COLOR



SECTION DESCRIPTION  
homogeneous greenish gray  
silty clay  
dispersed clink and cgl  
capilli throughout

sand layer

124

SS

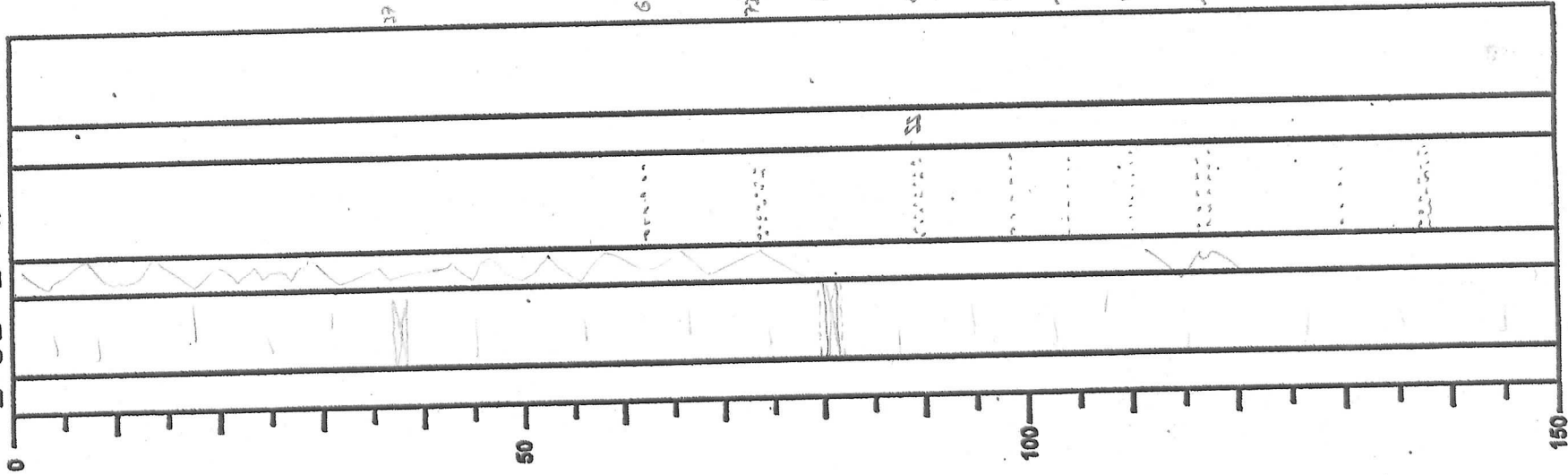
VISUAL CORE DESCRIPTION

DATE: 21 / 12 / 2007  
EXP: 316  
SITE/HOLE: C0004 C  
CORE: 54  
SECTION: 5  
OBSERVER: kim / R.S

PIECE#  
GRAPHIC REPRESENTATION  
DRILLING DISTURB.  
STRUCTURES  
SAMPLES  
COLOR

SECTION DESCRIPTION

greenish gray silty clay  
greenish color bands and mottling  
dispersed bright spots (lapilli or  
brown filled with volcanic  
material)  
with distinct OA - 2cm thick sand layers  
with erosional base



37

29

73-74

81-82

88-89

S7

104

very thin 109

116-118

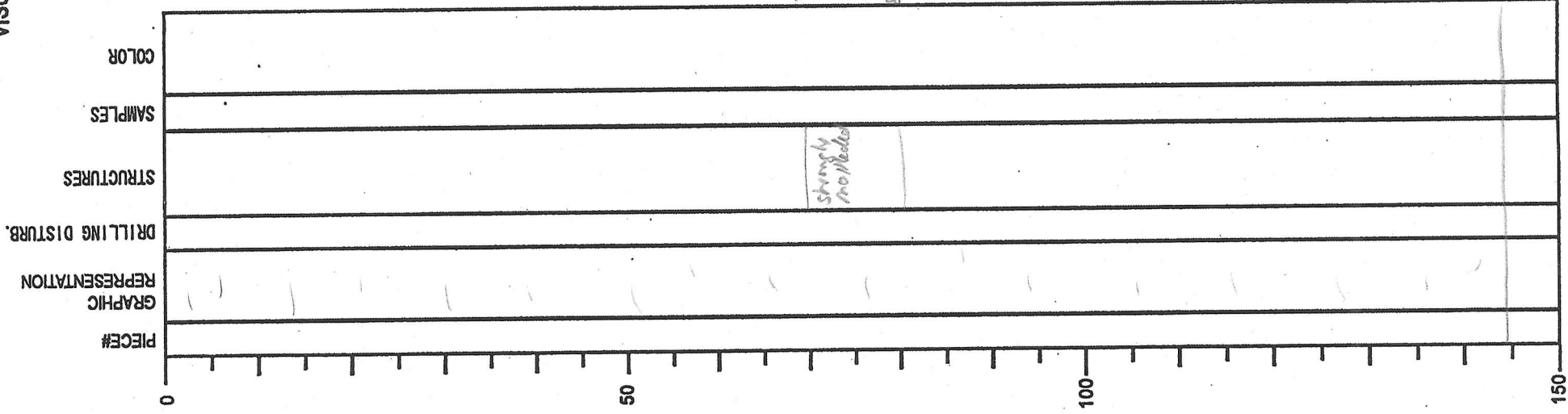
130

135-138 slightly dispersed

150

**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 21 / 12 / 2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 64  
 SECTION: 6  
 OBSERVER: kim/m.s.



**SECTION DESCRIPTION**

greenish gray silty clay  
 with greenish color bands and mottling  
 dispersed lapillae

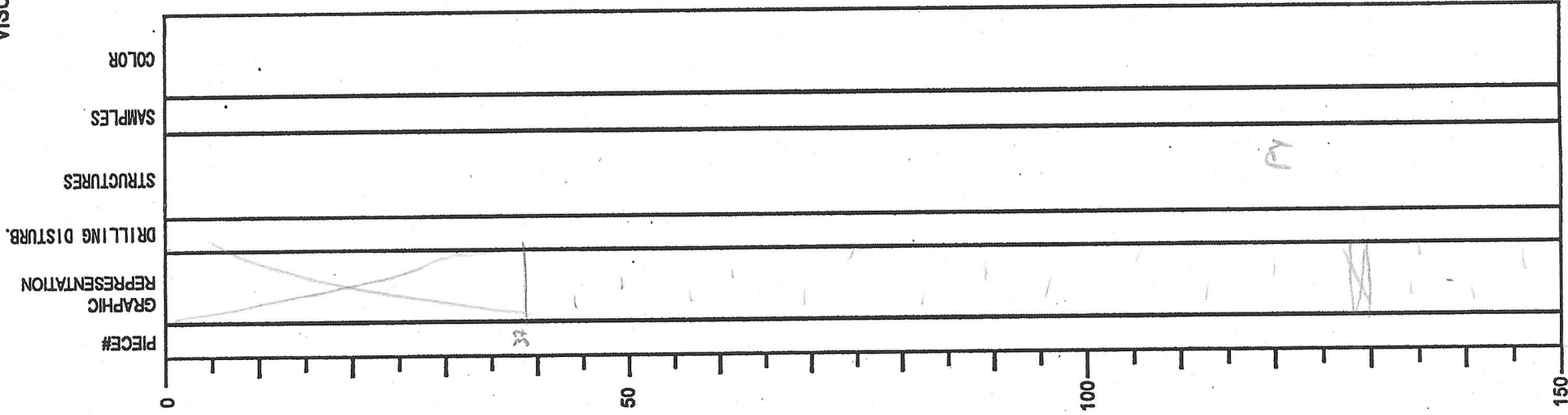
70  
 Shaly mottled  
 Looks like mud clasts ??

80

149

**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 21 / 12 / 2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 611  
 SECTION: 7  
 OBSERVER: Klu / MS



**SECTION DESCRIPTION**

*greenish gray silty clay  
 color bands + mottled  
 dispersed lenticles  
 and pyritized burrows*

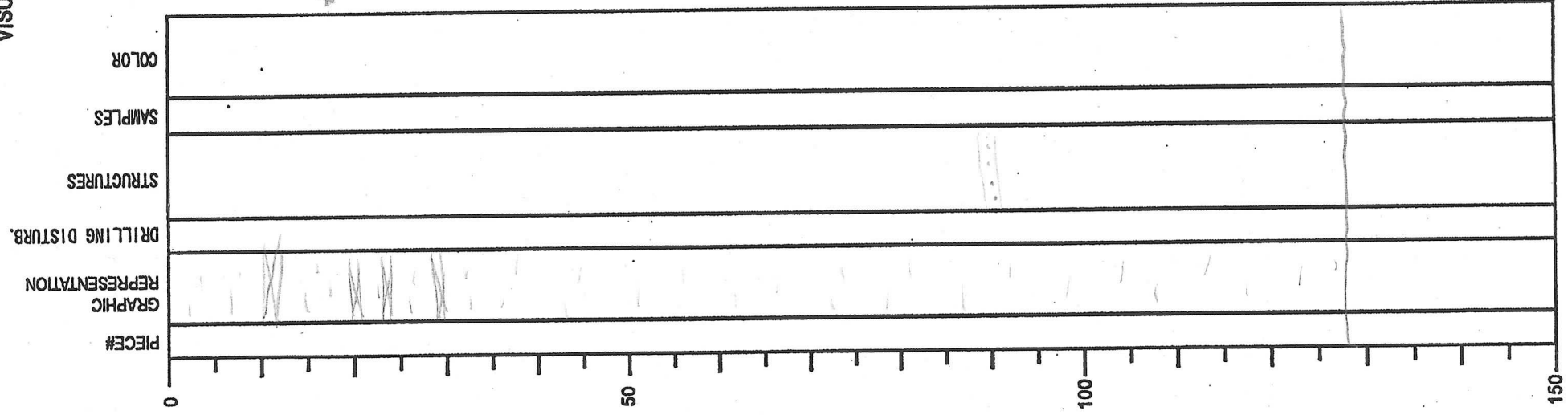
*elongated hard piece of pyrite (possibly + equivalent  
 to what we have  
 seen on CT-5000)  
 CORE 5/5*

**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 21 / 12 / 20 02  
 EXP: 306  
 SITE/HOLE: C0004  
 CORE: 64  
 SECTION: 8  
 OBSERVER: KLM/RS

**SECTION DESCRIPTION**

same greenish gray silty clay  
 more homogeneous (although mottling and color bands)  
 from 0 - 92 cm  
 trace opacity + disk + pink was dispersed throughout  
 color bands 92 - 137 cm



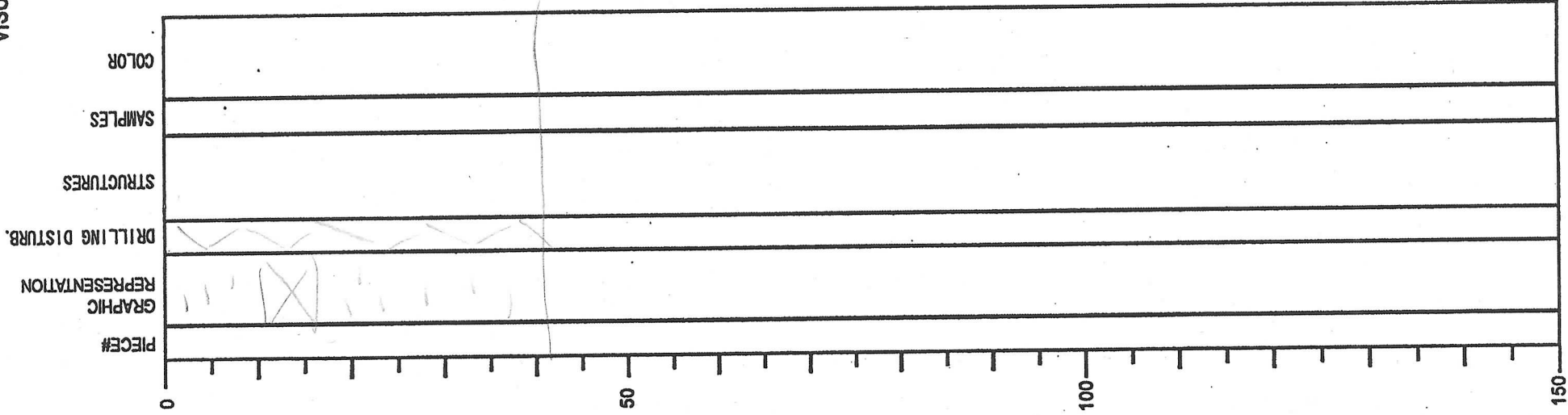


**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 21 / 12 / 2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 6H  
 SECTION: EC  
 OBSERVER: RUM/M.S

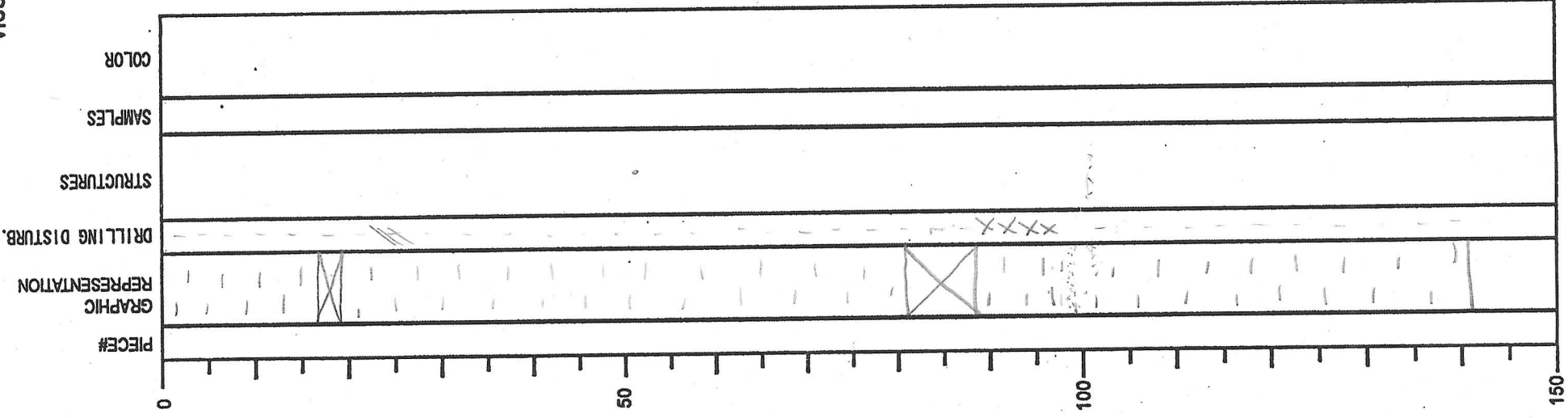
SECTION DESCRIPTION

same lithology  
 drilling disturbed  
 gr. gray s.c.  
 mottled



**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. DATE: 22/12/2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 7  
 SECTION: 1  
 OBSERVER: UIN



**SECTION DESCRIPTION**

green-grey silty clay, homogeneous except for green colour bands which occasionally show slight mottling

occasional black nodules (organic matter?)

- isolated sponge spicule pellet (no smear slide confirmation)  
 (minor faults through sequence from 25--73cm - see structure)

- minor vt. sand bed (smear slide), normally scattered white ash

Fare volcanichasthi (ash) clasts.

} slight mottling in colour bands.

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. DATE: 22 / 12 / 2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 7  
 SECTION: 2  
 OBSERVER: UN

SECTION DESCRIPTION

greenish grey silty clay. green colour bands mostly limited to the upper 40cm.

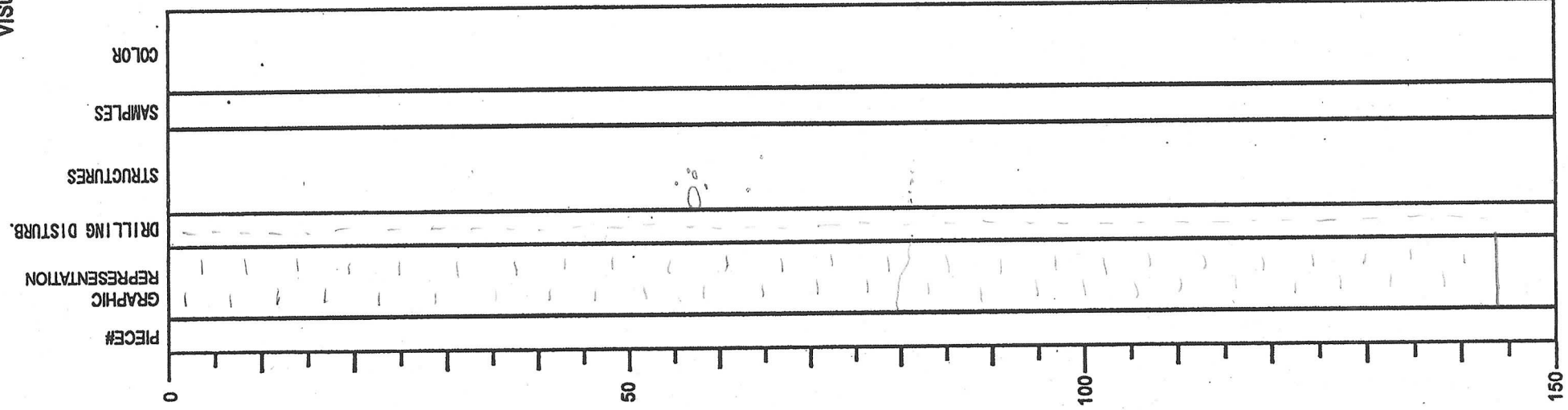
normal fault from 30-50 cm, ~~grey~~ green colour bands on either side of fault deformed (dragged).

(very bright in CT)

glauconite clasts. 1 large one > 5cm contains dispersed black material inside with minor pyrite. Also several small glauconite clasts, 1-5mm diameter.

Scattered, rare ash clasts.

slight colour change in core marked by a scatter's of black material - may be minor erosional boundary?



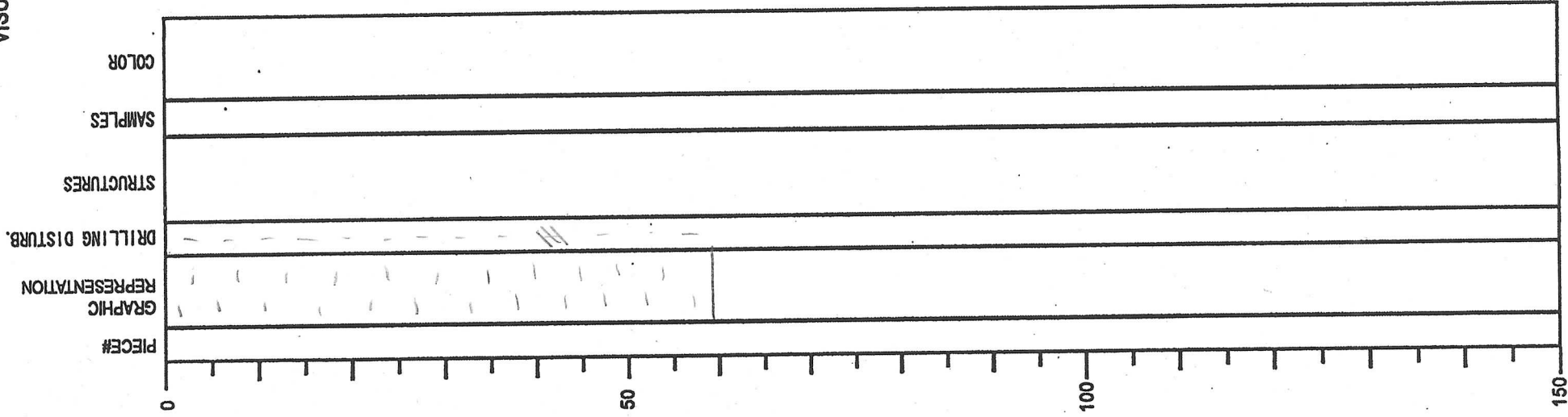
**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22 / 12 / 20 07  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 7  
 SECTION: 3  
 OBSERVER: UN

**SECTION DESCRIPTION**

*green-grey silty clay. green colour bands are  
 now very faint and appear to be slightly  
 mottled*

*Scattered black debris and granularite pellets.*

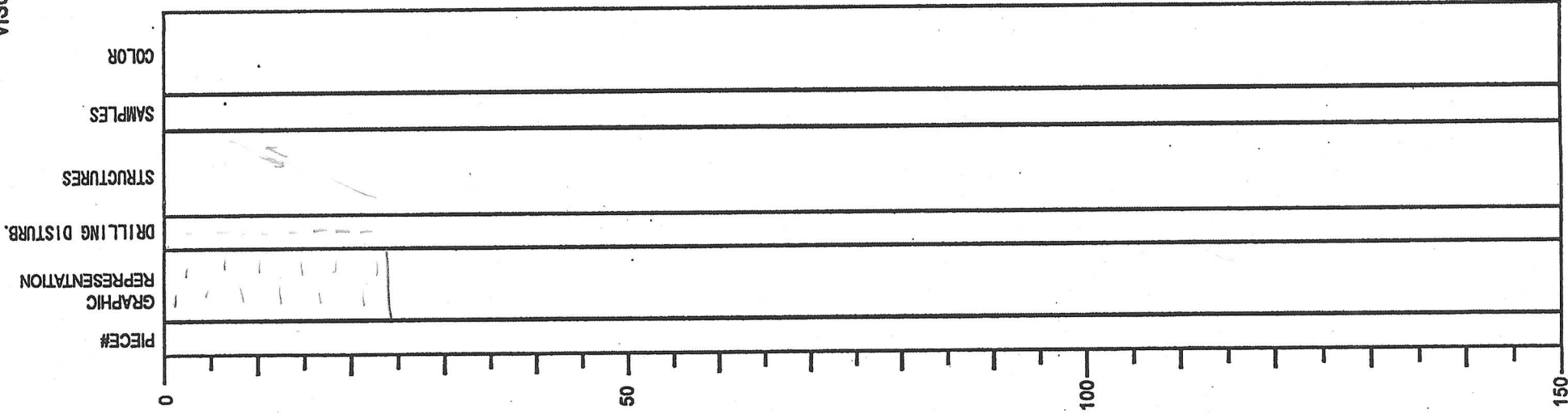


**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22 / 12 / 2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 7  
 SECTION: 4  
 OBSERVER: VN

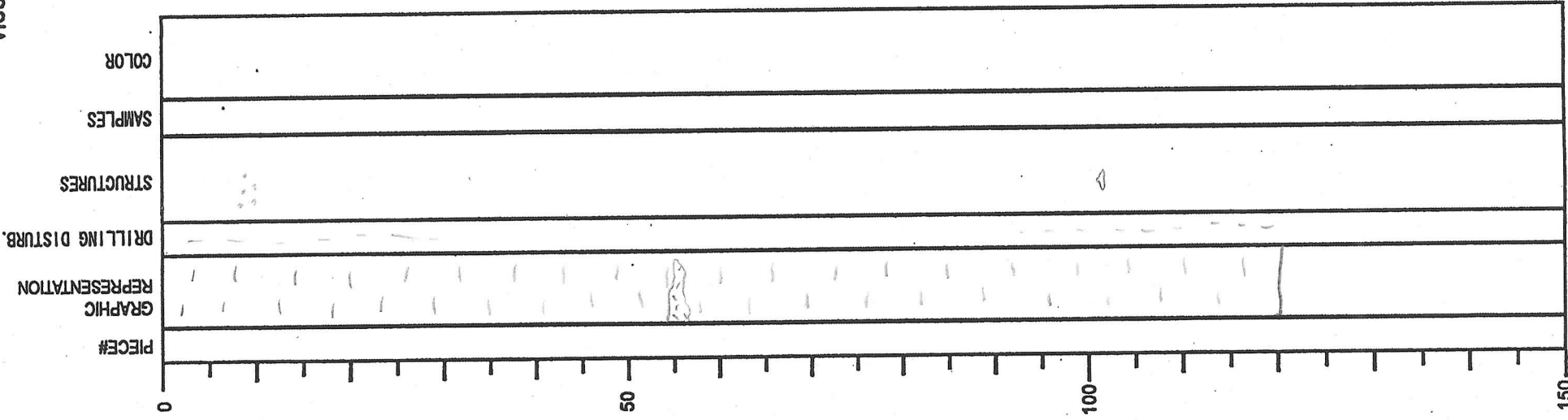
SECTION DESCRIPTION

greenish - grey silty clay. Possible  
 possible fault from 4 to 22cm with dispersed  
 green coloration only present on hanging wall  
 side.



**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. DATE: 22 / 12 / 2007  
 EXP: 3/6  
 SITE/HOLE: C0004C  
 CORE: 7  
 SECTION: 5  
 OBSERVER: UN



SECTION DESCRIPTION

greenish-grey silty clay  
 cluster of glauconite clasts from 9-13 cm

- discontinuous (probably burrow) asteroidea. White, 2 cm thick.  
 small fault from 56-67 cm  
 - green bands determined by fault in forewall side

scattered glauconite clast 75-83 cm

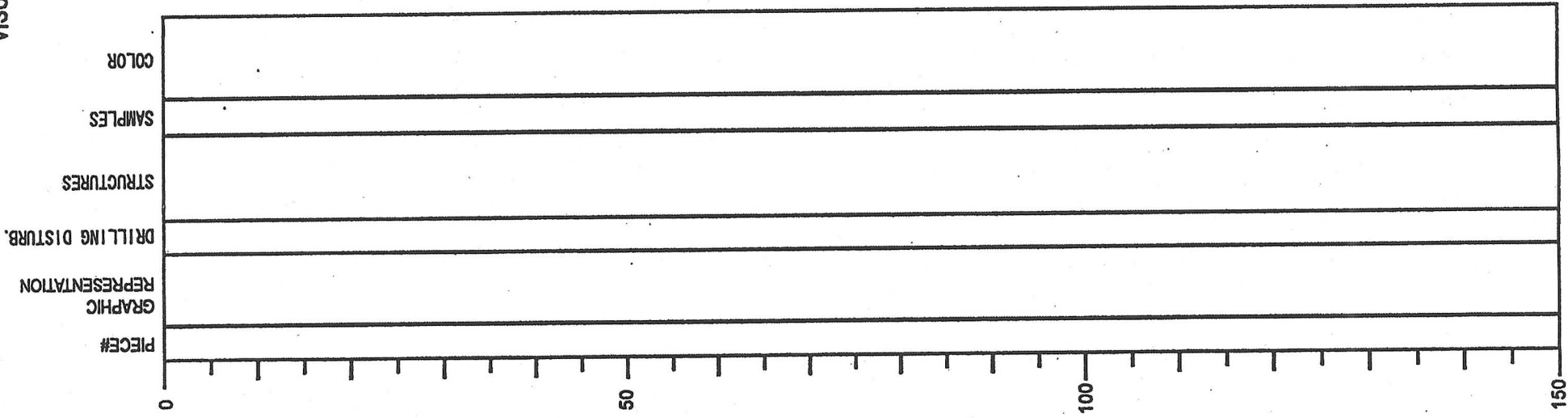
- isolated, flat based sand / ash

INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. /  
DATE: / /20  
EXP: 316  
SITE/HOLE: C5004-C  
CORE: 8  
SECTION: 6  
OBSERVER: UN

SECTION DESCRIPTION

M



**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22 / 12 / 20 07  
 EXP: 816  
 SITE/HOLE: C 0004C  
 CORE: 7  
 SECTION: 7  
 OBSERVER: UN

**SECTION DESCRIPTION**

green-grey silty clay. Green lens visible  
 approximately every 20cm

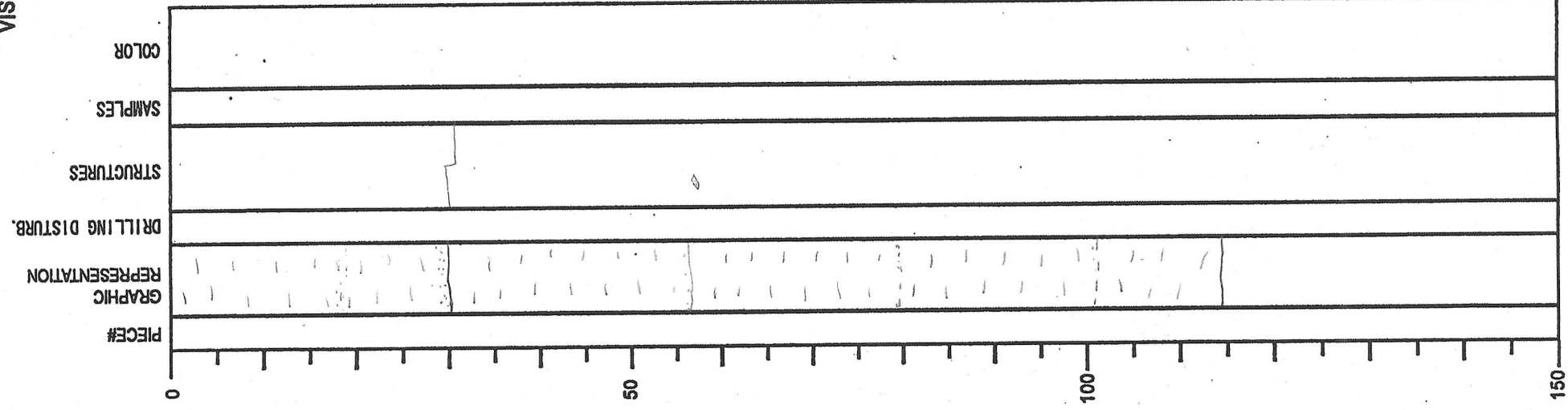
- F-vf. sand, normally graded into silt thin clay over 2-3 cm.  
 - step in base of bed (0.5cm) - microfault or  
 erosional feature?

0.5cm, partially preserved F-vf. sand. Normally graded.  
 - sand pit beneath probably burrow fill fine sand above

} scattering of >10 volcaniclastic clasts (ash granules) between  
 68 and 74cm.

- very discontinuous sand, normally graded into silt the clay.  
 up to 1cm thick others lost preserved. Bed may have  
 been partially destroyed by erosion/burrowing

very locally preserved, 0.5cm thick sand, probably similar  
 to that above (at 79.5cm)





# INTEGRATED OCEAN DRILLIGN PROGRAM VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
 DATE: 22 / 12 / 2007.  
 EXP: 316  
 SITE/HOLE: C0004c  
 CORE: 7  
 SECTION: 8  
 OBSERVER: UN

**SECTION DESCRIPTION**

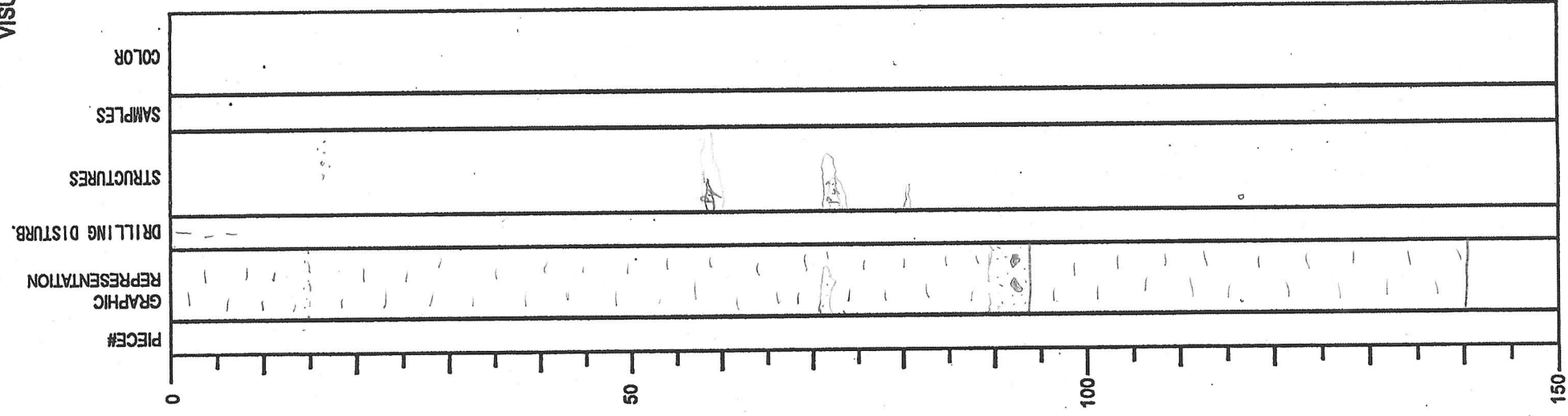
green grey silty clay. occasional green colour bands + more prominent, obviously glauconitic bands often associated with pyrite.  
 - thin silty laminae - poorly preserved  
 15-19cm - cluster of volcanoclastic/ash clasts  
 rare volcanoclastic/ash clasts

- bright spot on CT - pyrite surrounded by glauconite  
 } 62-65cm - cluster of volcanoclastic/ash clasts

- discontinuous glauconitic horizon

3cm thick fish, less obviously graded than others. Crinoids are broken in top 1.5cm; where bright spot appears on CT scan possibly pyrite-rich zone ?? - no glauconite association here.

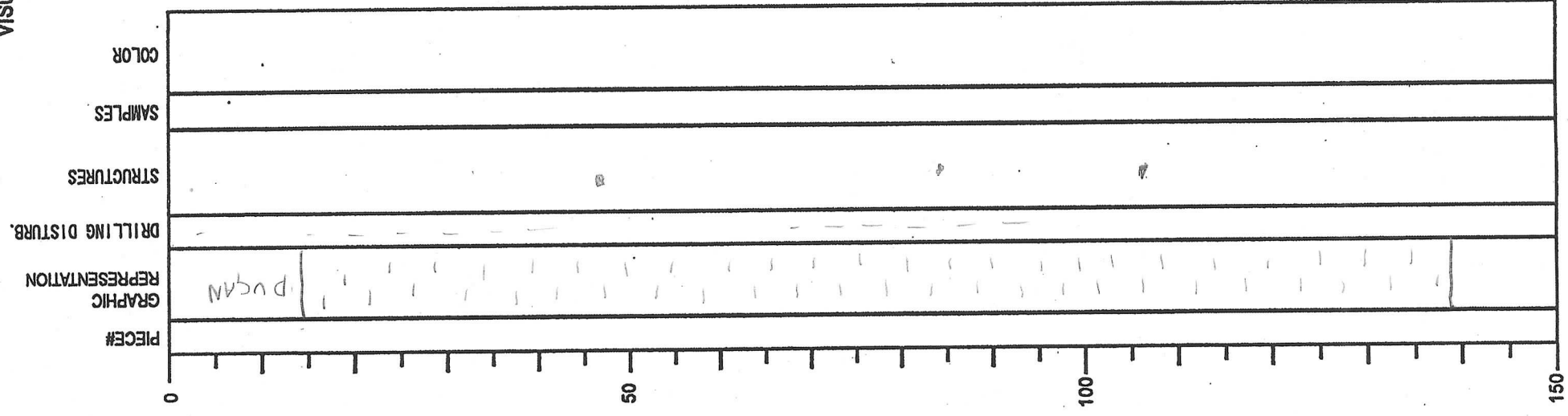
- isolated tan pumice clast



**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22/12/2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 7  
 SECTION: 9  
 OBSERVER: UN

SECTION DESCRIPTION



green-grey silty clay. green bands are less obvious than others and appear mottled in places.

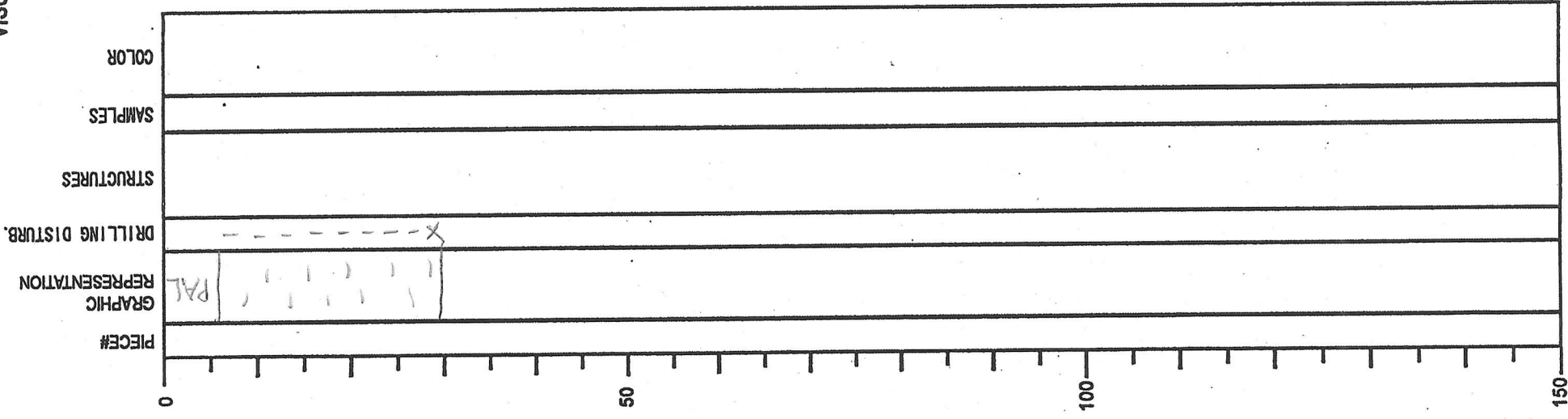
-black nodule (organic matter?)

-black nodule, scattering of green fluorescent clasts

} 97-105 cm - scattering of siltier blobs in core  
 - very clay like nodule

**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22 / 12 / 2007  
 EXP: 316  
 SITE/HOLE: C 0004C  
 CORE: 7  
 SECTION: CC (6)  
 OBSERVER: EUN

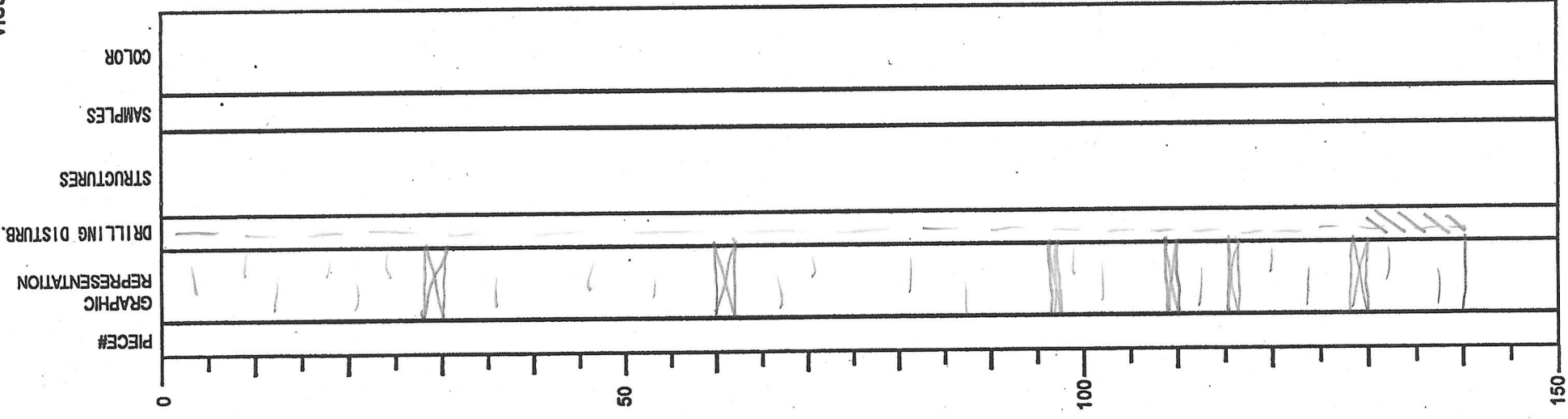


SECTION DESCRIPTION

granit grey silty clay.  
 scattered glaucousite clasts.

**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22/12/2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 8H  
 SECTION: 1  
 OBSERVER: CLF

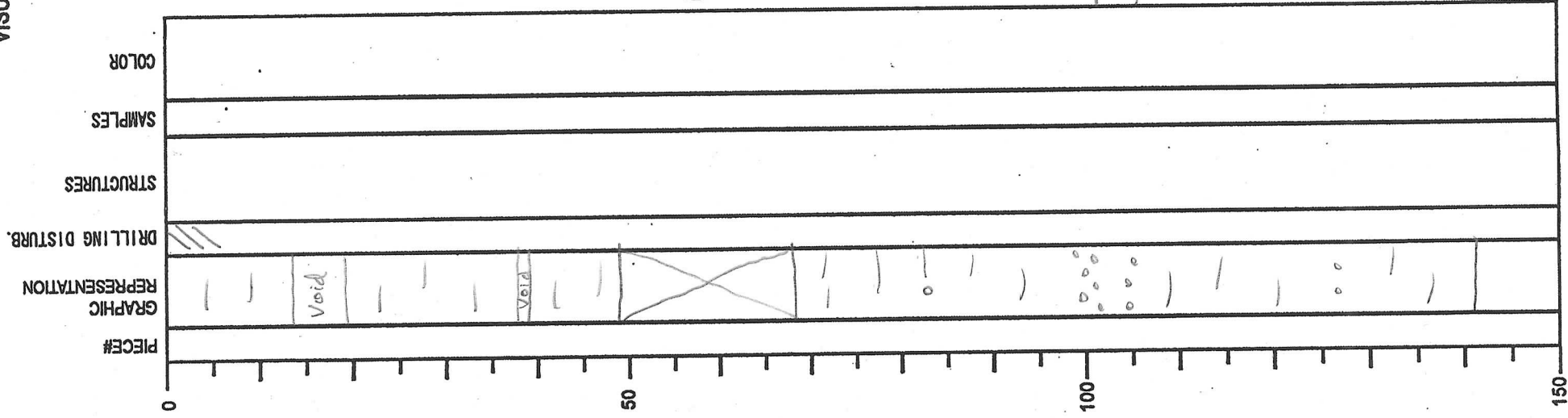


SECTION DESCRIPTION

greenish gray silty clay  
 slight drilling disturbance with  
 voids  
 scattered dark gray small  
 nodules (pyritic?)

**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22 / 12 / 2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 8H  
 SECTION: 2  
 OBSERVER: CLF



SECTION DESCRIPTION

*greenish-gray silty clay  
 with lapilli in lower part*

*WR - JAN*

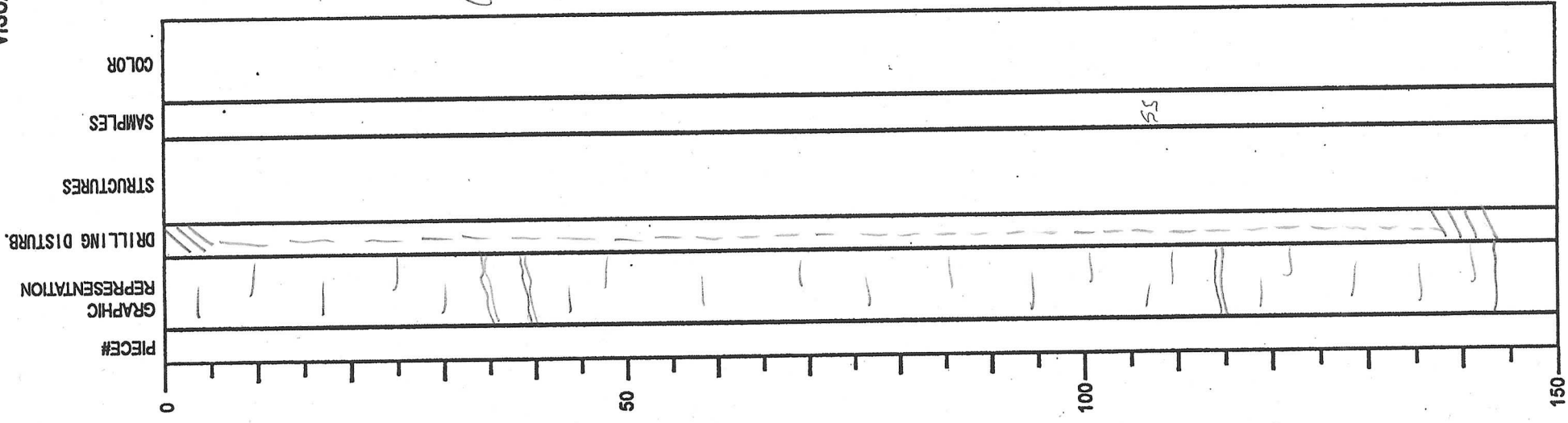
*White blob = sponge spicules*

*- 99-101 cm lapilli fragments  
 - 104-105 cm "*

*127-128 cm "*

**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22/12/2007  
 EXP: 316  
 SITE/HOLE: C0009C  
 CORE: 8H  
 SECTION: 3  
 OBSERVER: CLF



SECTION DESCRIPTION

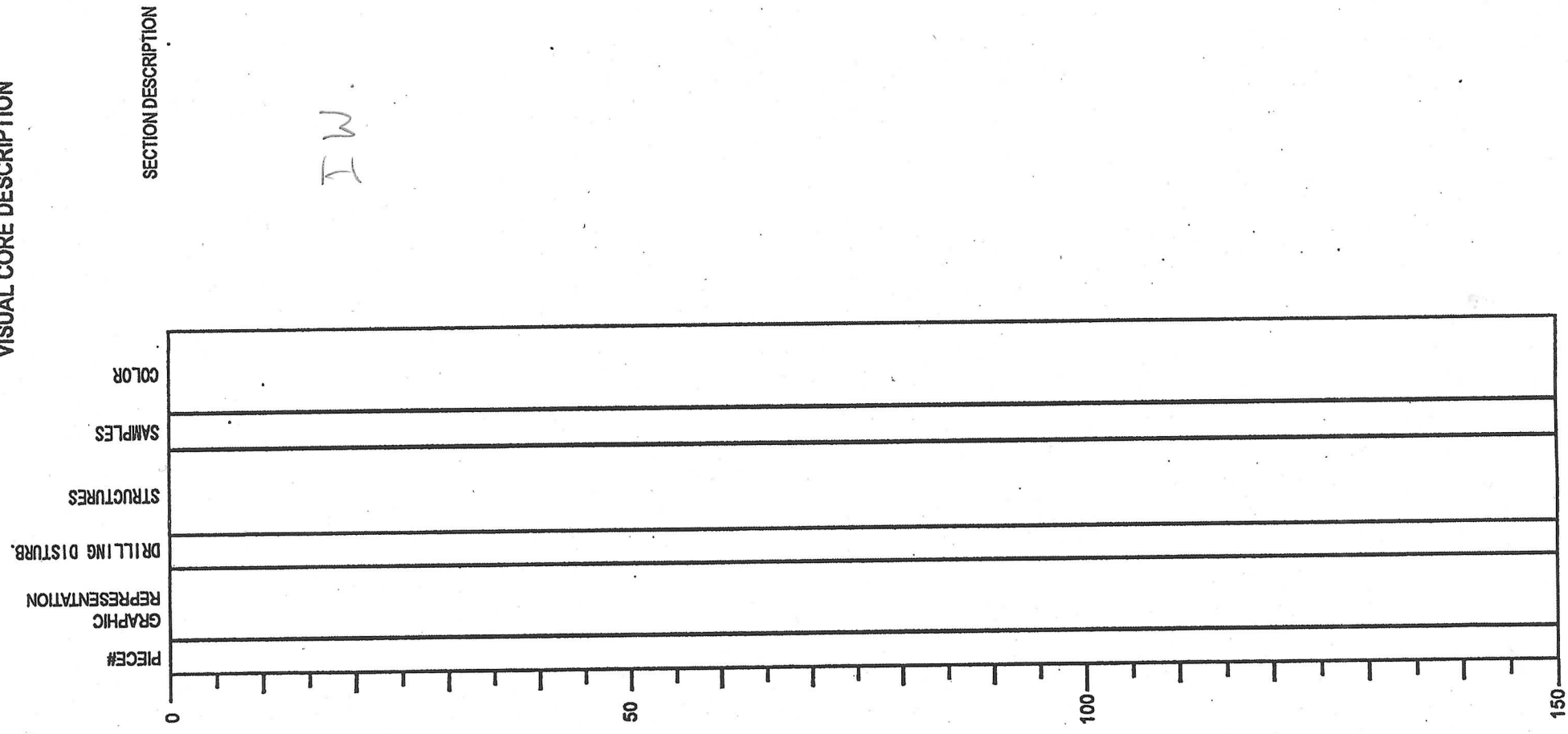
greenish-gray silty clay  
 scattered capilli 0-50cm,  
 smaller ones at depth  
 some colour bands (most  
 are discontinuous)

cracks

crack

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

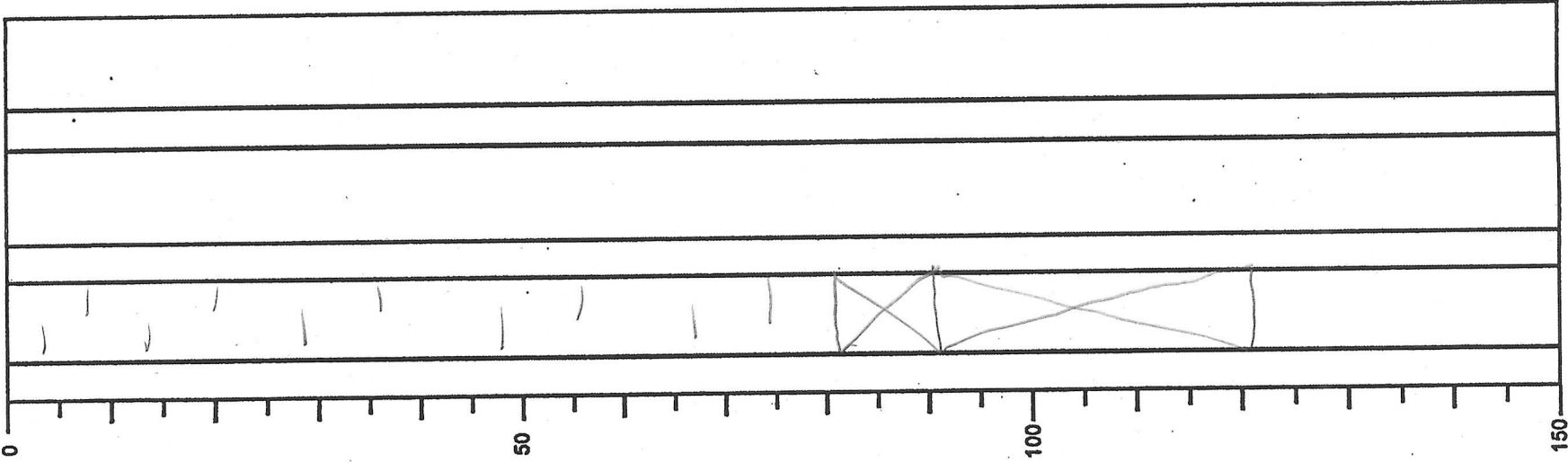
NO. \_\_\_\_\_  
DATE: 22 / 12 / 20 07  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 84  
SECTION: 4  
OBSERVER: CLF



**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO.   
 DATE: 22/12/2007   
 EXP: 316   
 SITE/HOLE: C0004C   
 CORE: 8A   
 SECTION: 5   
 OBSERVER: CLF

SECTION DESCRIPTION



greenish-gray silty clay

55-58 cm lapilli  
 minor mottling 66-65 cm

WR Saito

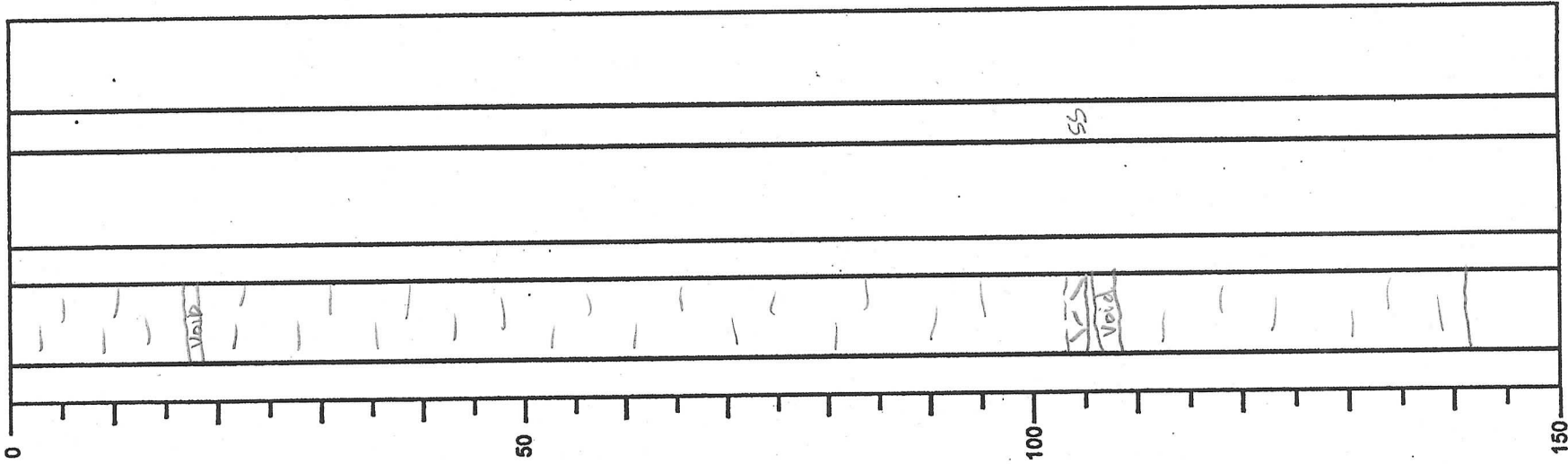
WR COM&TECH



**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. DATE: 22 / 12 / 2007  
 EXP: 316 SITE/HOLE: C0004C  
 CORE: 6H SECTION: 6  
 OBSERVER: CLF

SECTION DESCRIPTION



greenish-gray silty clay

Lepilli 45-50cm

Colour band 66-68cm

Mottling 80-90cm

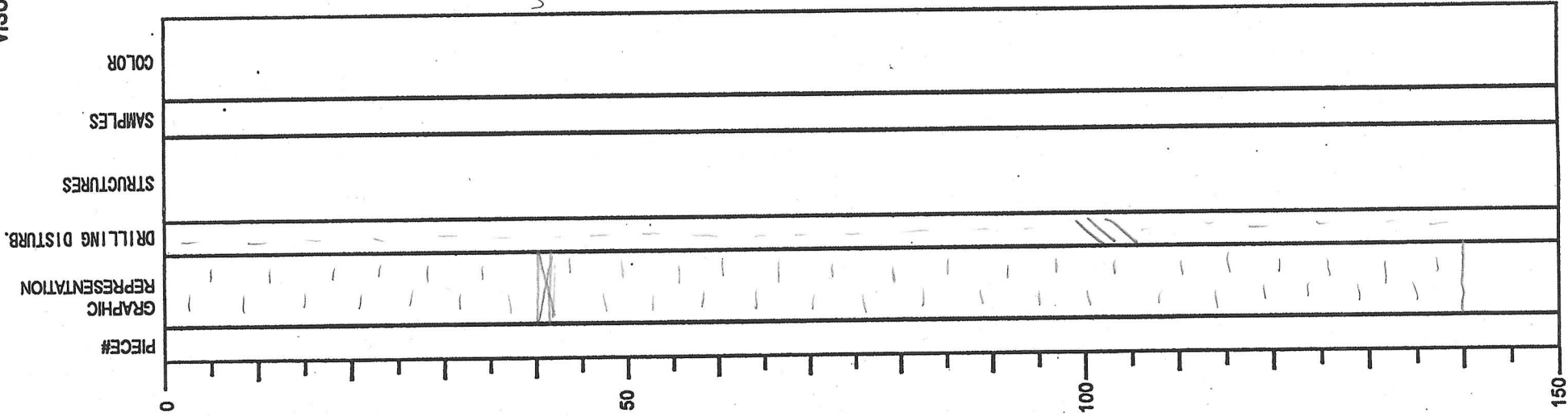
ash layer 102-105cm

**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. 22/12/2007  
 DATE: 22/12/2007  
 EXP: 316  
 SITE/HOLE: C006 AF  
 CORE: 84  
 SECTION: 7  
 OBSERVER: CLF/VW

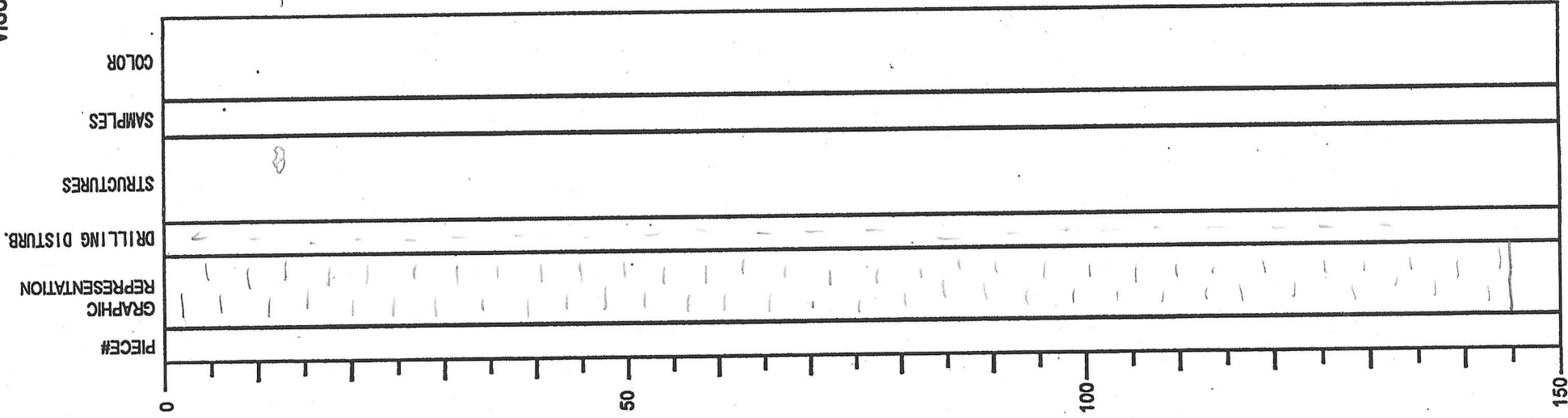
**SECTION DESCRIPTION**

Greenish-gray silty clay. Pale green bands throughout.  
 Scattered volcanic ash throughout (granule size).



**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22/12/20 07.  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 9H  
 SECTION: 9  
 OBSERVER: CLF



**SECTION DESCRIPTION**

green grey silty clay. Green bands white throughout. Microfaults cut section @ 23cm, 69cm, ~~80cm~~ 77 - 105cm. Scattered volcanic ash common in upper part of section from 5 - 58cm.

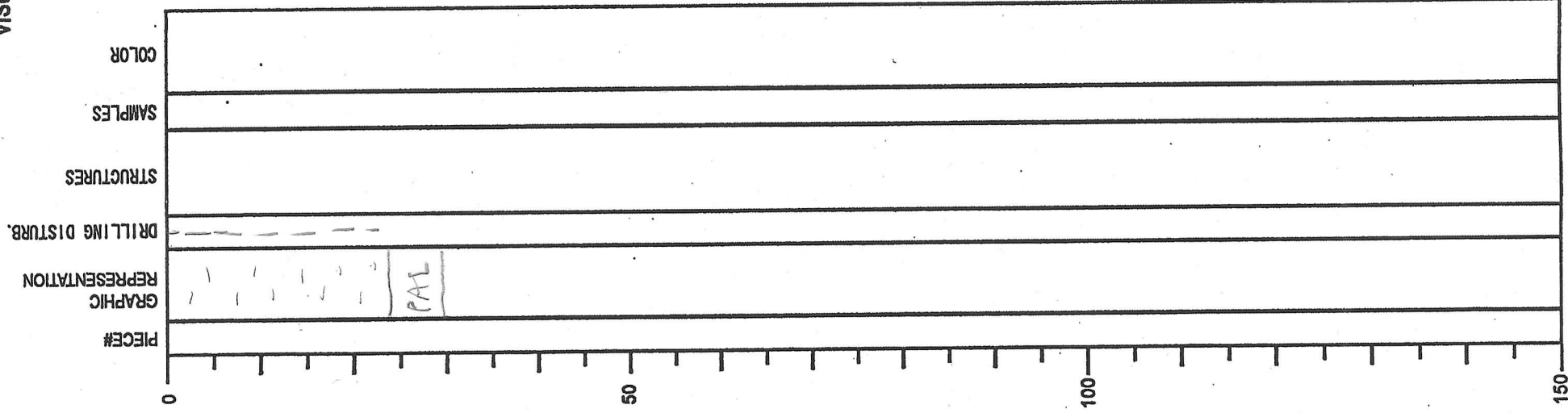
*log of clay*

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 22/12/2007  
EXP: 316  
SITE/HOLE: C0004c  
CORE: 28  
SECTION: CC  
OBSERVER: UN

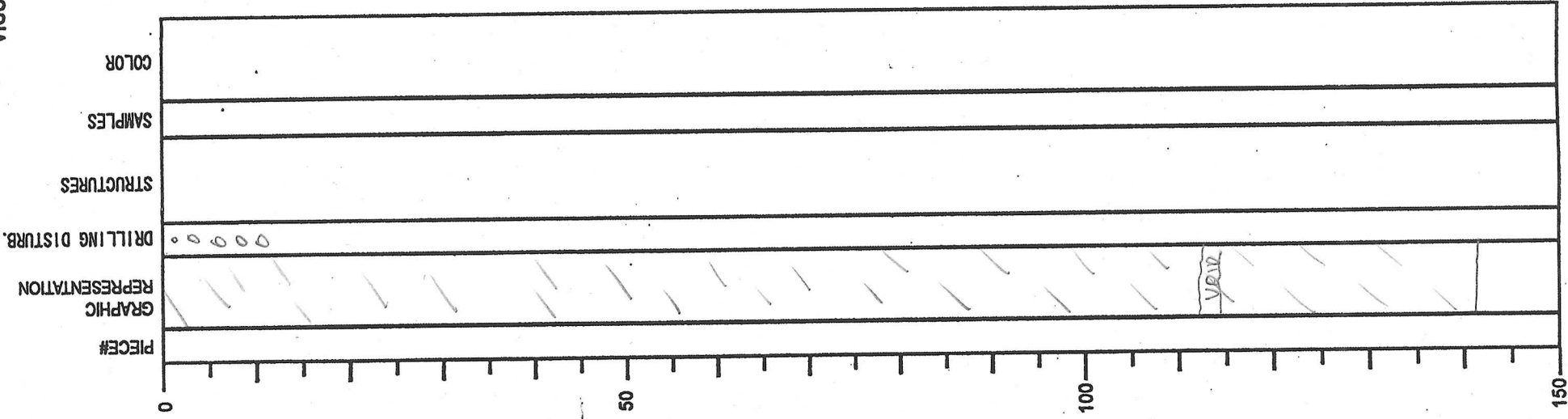
SECTION DESCRIPTION

greenish grey silty clay. several green  
color bands present



**INTEGRATED OCEAN DRILLIGN PROGRAM**  
**VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22/12/2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 9H  
 SECTION: 1  
 OBSERVER: CLF



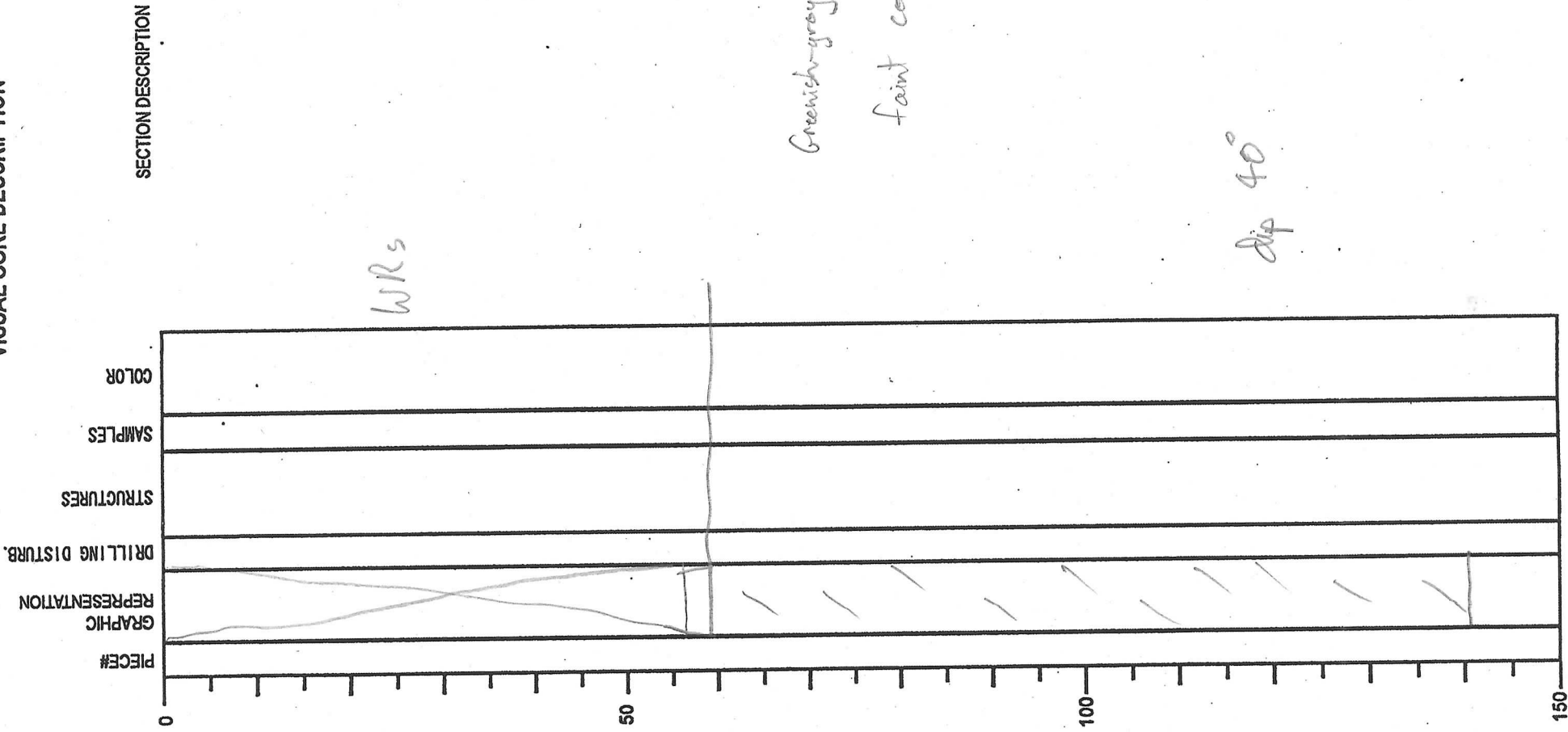
SECTION DESCRIPTION

greenish gray silty clay  
 faint green colour bands  
 inclined at 40° to core axis

40° dip

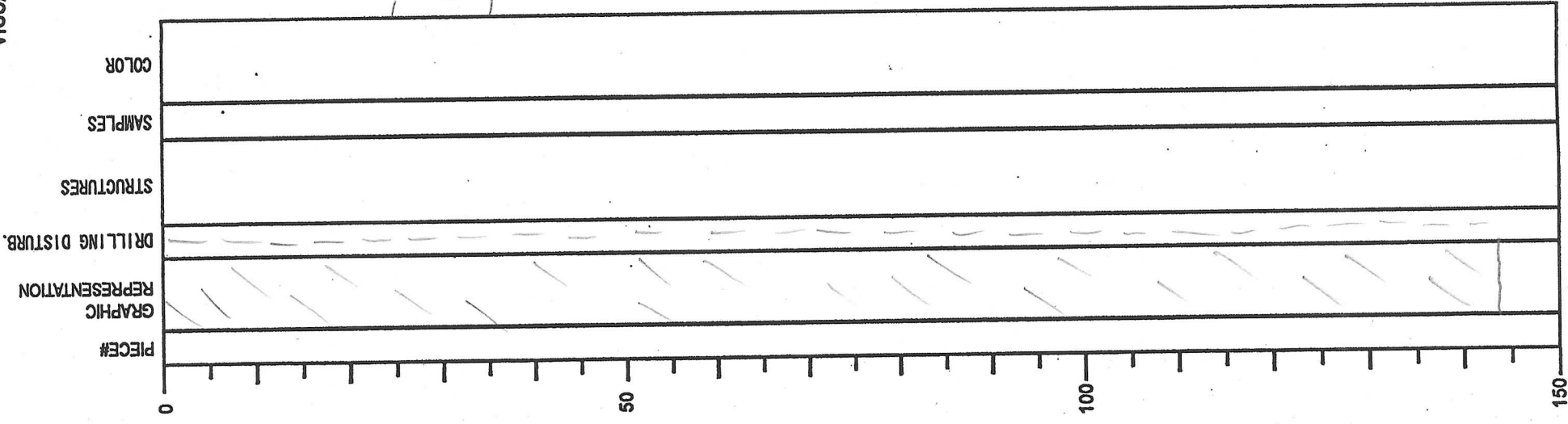
INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 22/12/2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 9H  
SECTION: 2  
OBSERVER: CLF



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 22/12/20  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 9H  
SECTION: 3  
OBSERVER: CLF



SECTION DESCRIPTION

Greenish-gray silty clay  
with inclined faint  
green colour bands

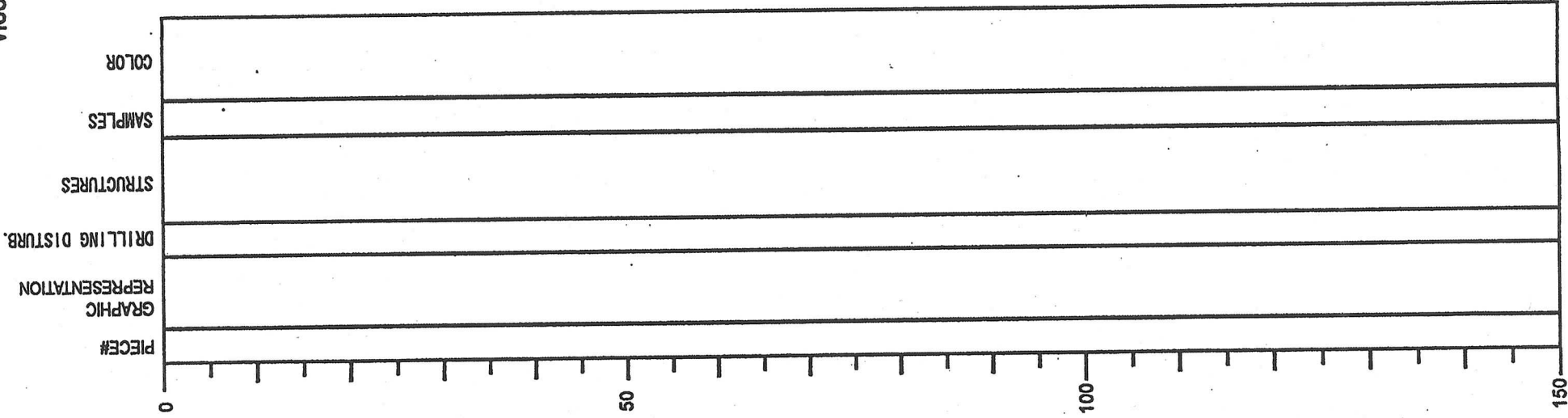
Mottled zone

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 22/12/2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 94  
SECTION: 4  
OBSERVER: CLF

SECTION DESCRIPTION

IW

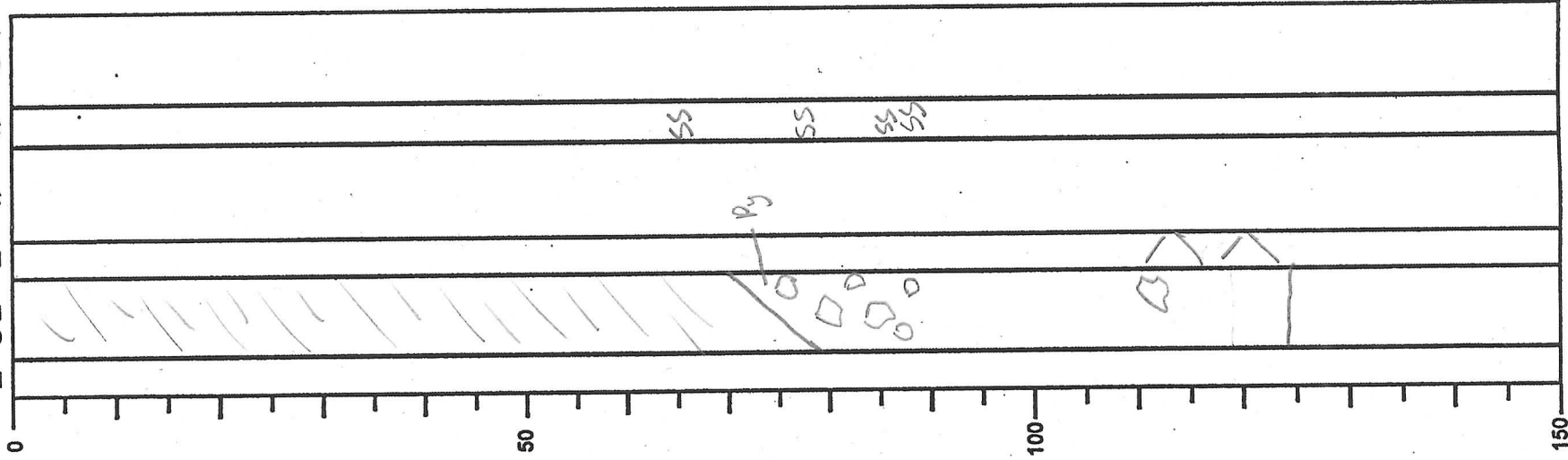




**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. DATE: 22/12/2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 9H  
 SECTION: 5  
 OBSERVER: CLF

SECTION DESCRIPTION



Silty clay  
 (no colour bands)  
 Colour is different - less  
 green - gray to gray-brown.

Contact 70 to 78 cm slopes across  
 Pyrite core  
 Unit boundary on Log 314.  
 silty claystone  
 mudstone  
 Jigsaw texture observed  
 on clasts on CT  
 clast  
 Green brecciated  
 Silty claystone  
 Mudstone (not as lithified)  
 Poorly sorted, angular (non-polished)  
 fragments up to 3cm across  
 Breccia here locally.

**INTEGRATED OCEAN DRILLIGN PROGRAM**  
**VISUAL CORE DESCRIPTION**

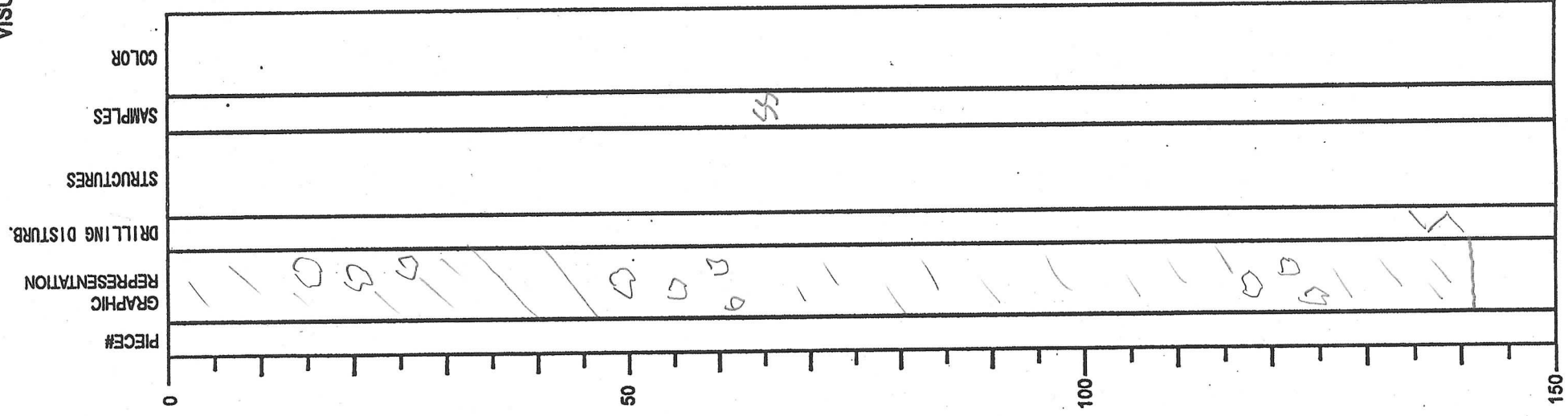
NO. DATE: 22/12/2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 9H  
 SECTION: 6  
 OBSERVER: CLF

SECTION DESCRIPTION

Gray silty claystone  
 Change in colour from Section 5)  
 brecciated in places (not primary)

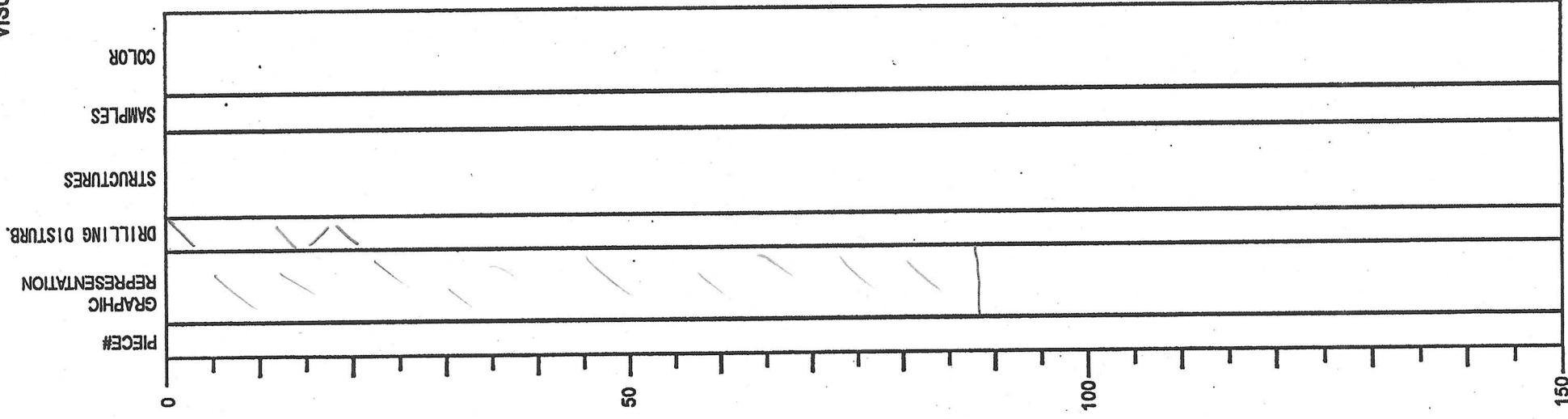
Colour band - Gray silty claystone

Check CT for  
 brecciation  
 Brecciation  
 throughout



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 22/12/2007  
EXP: 316  
SITE/HOLE: C0004-C  
CORE: 9H  
SECTION: 7  
OBSERVER: CLF



SECTION DESCRIPTION

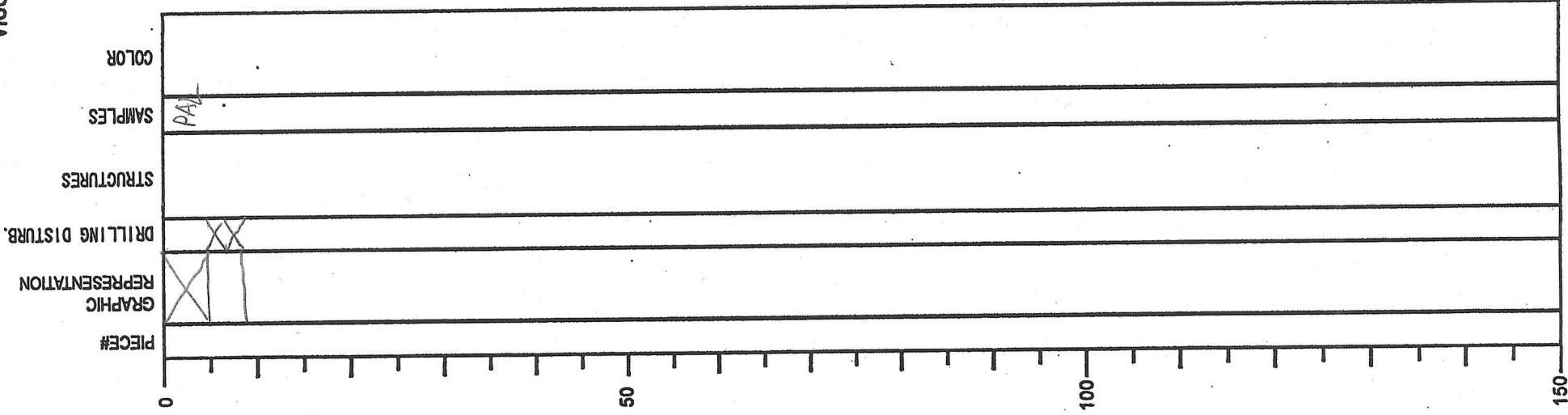
Gray-olive silty claystone

massive

check CT for brecciation

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. 1212212007  
DATE: 12/22/2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 9H  
SECTION: CC  
OBSERVER: CLF

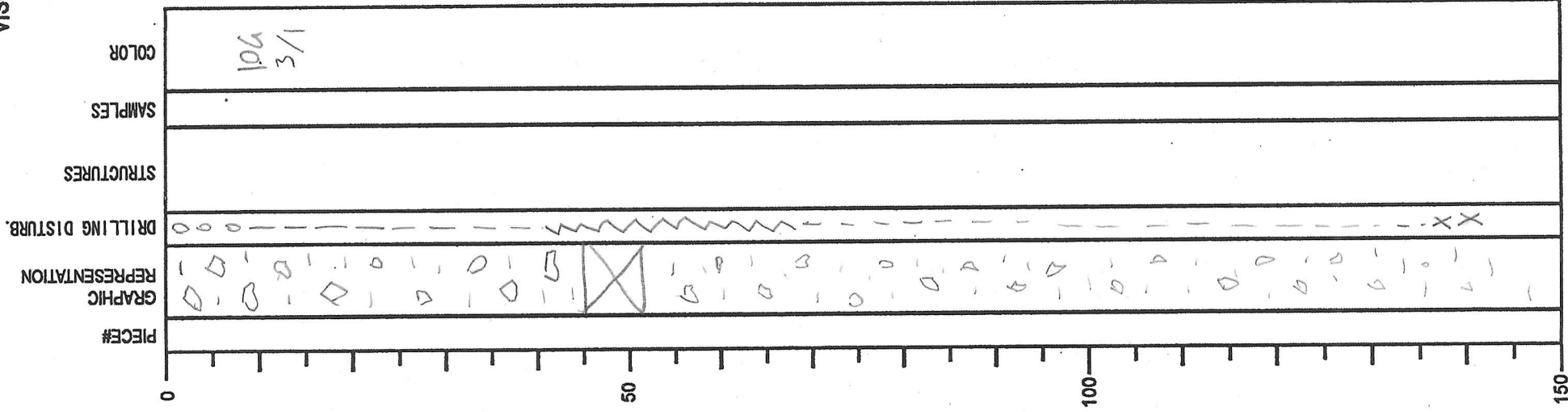


SECTION DESCRIPTION

Gray-olive silty claystone  
breccia.

**INTEGRATED OCEAN DRILLIGN PROGRAM**  
**VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22 11/2/2007  
 EXP: 316  
 SITE/HOLE: C 0004C  
 CORE: 10  
 SECTION: 1  
 OBSERVER: UN

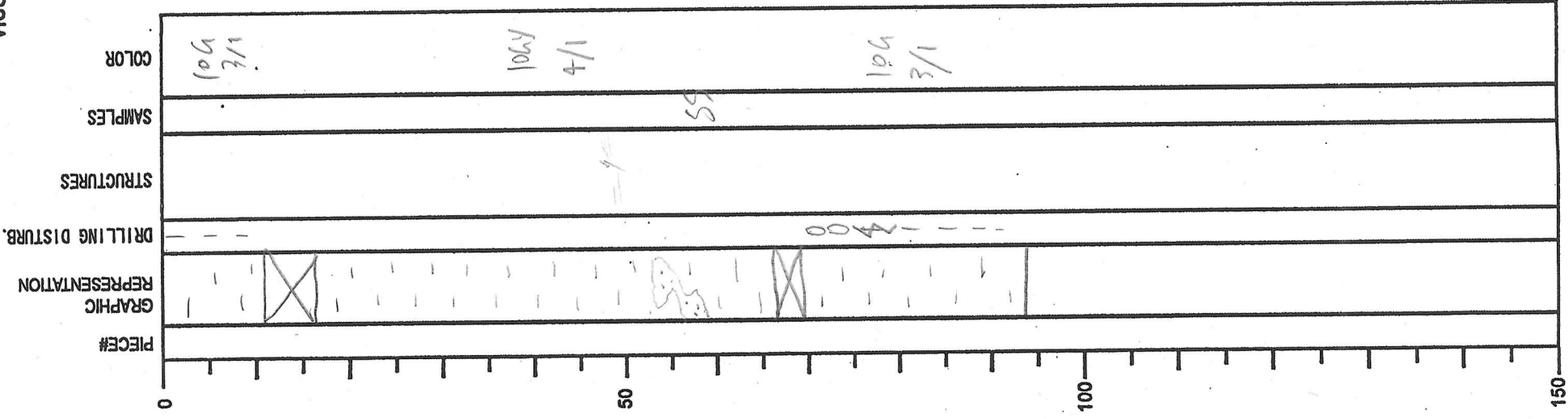


**SECTION DESCRIPTION**

dark green-grey mudstone breccia, clast same as matrix and core up to 2cm across.  
 difficult  
 difficult to distinguish many features due to drilling disturbance.

**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

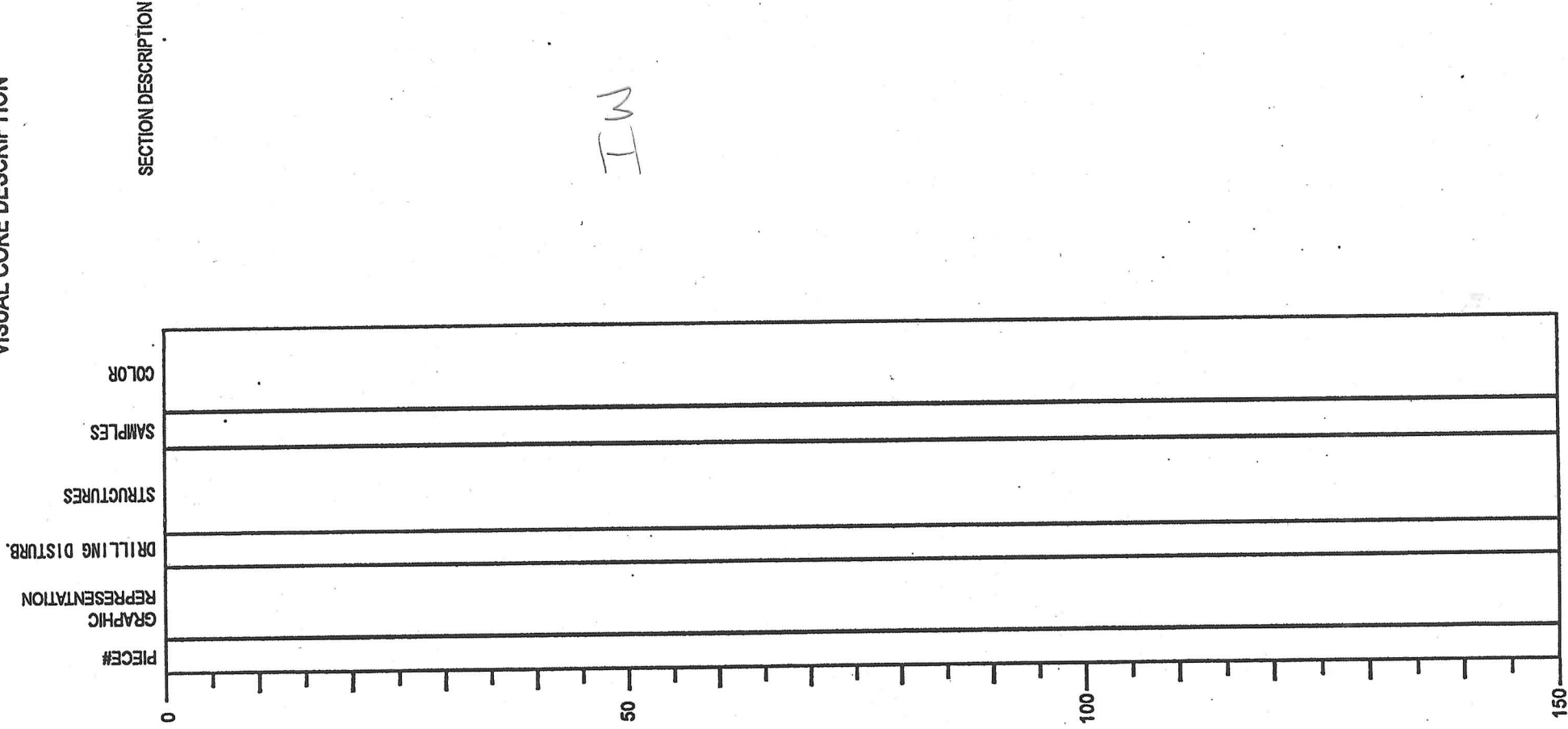
NO. \_\_\_\_\_  
 DATE: 22 / 12 / 2007  
 EXP: 3/16  
 SITE/HOLE: C 600 FC  
 CORE: 10  
 SECTION: 2  
 OBSERVER: UN



*- small effect in soft/soft rich white brownish  
 moderately sandstone fine grained, possibly forming part of  
 burrow fill. - Coarser sample.*

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 22/12/2007  
EXP: 316  
SITE/HOLE: C-0004c  
CORE: 10  
SECTION: 3  
OBSERVER: UN

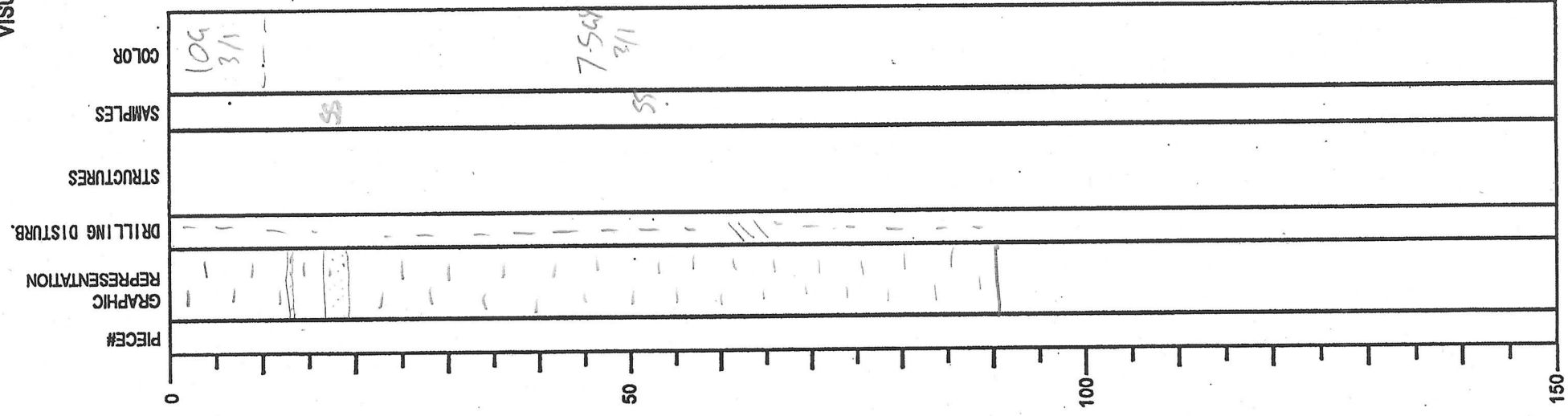


**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22 / 12 / 2007  
 EXP: 316  
 SITE/HOLE: C 6004c  
 CORE: 10  
 SECTION: 4  
 OBSERVER: UN

*thin sand laminae - m. grad, composition similar to section 2 - SS  
 dark gray lithic, f. substone, composition different to above*

*Py*



SECTION DESCRIPTION

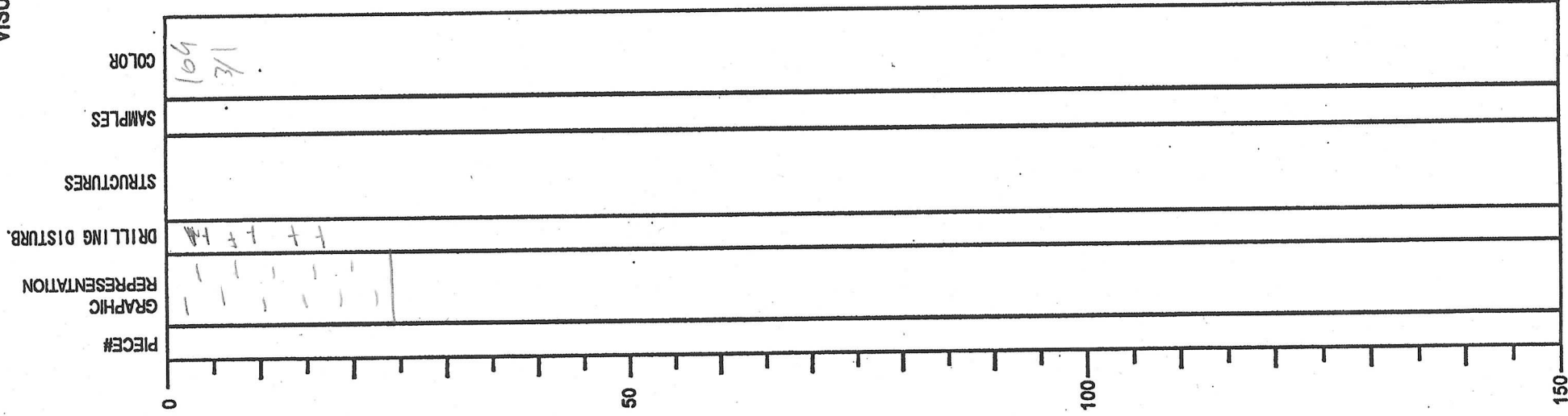


INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
 DATE: 22 / 12 / 2007  
 EXP: 316  
 SITE/HOLE: C 004c  
 CORE: 10  
 SECTION: 5  
 OBSERVER: UN

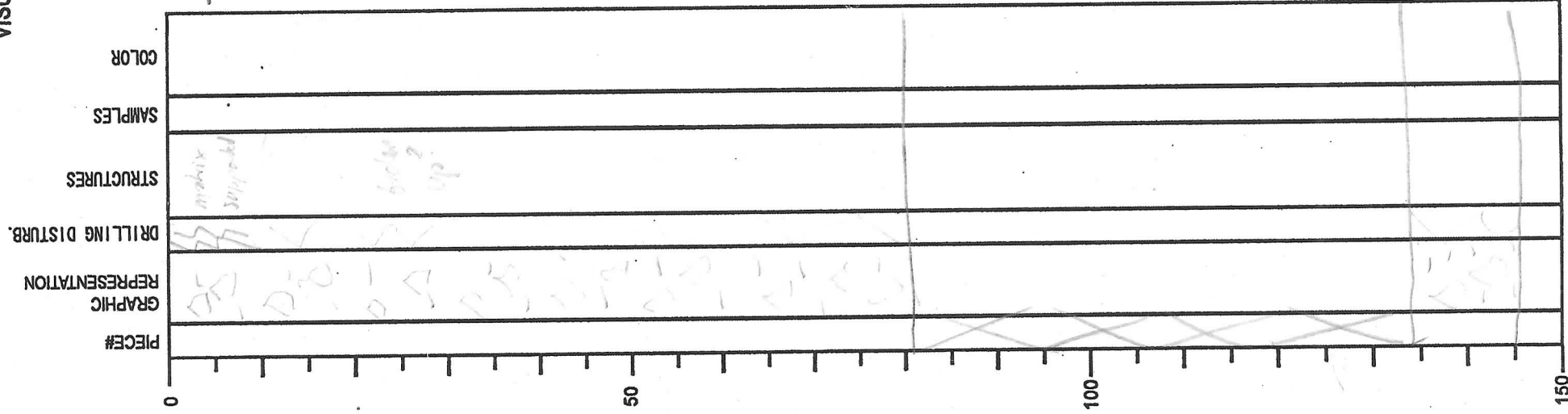
SECTION DESCRIPTION

dark greenish grey silty mudstone



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. 1  
DATE: 22 / 12 / 20 07  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 11R  
SECTION: 1  
OBSERVER: NS. KUM



SECTION DESCRIPTION

- dark greenish gray mudstone breccia throughout (as brecciation is visible in CT scan throughout) showing variation in the brecciation intensity from matrix supported to broken up intact mudstone  
Hard to distinguish in place situation as brecciation might have been enhanced due to churning

- in CT scan clear evidences of high density spots (pyrites) seen formed in cracks

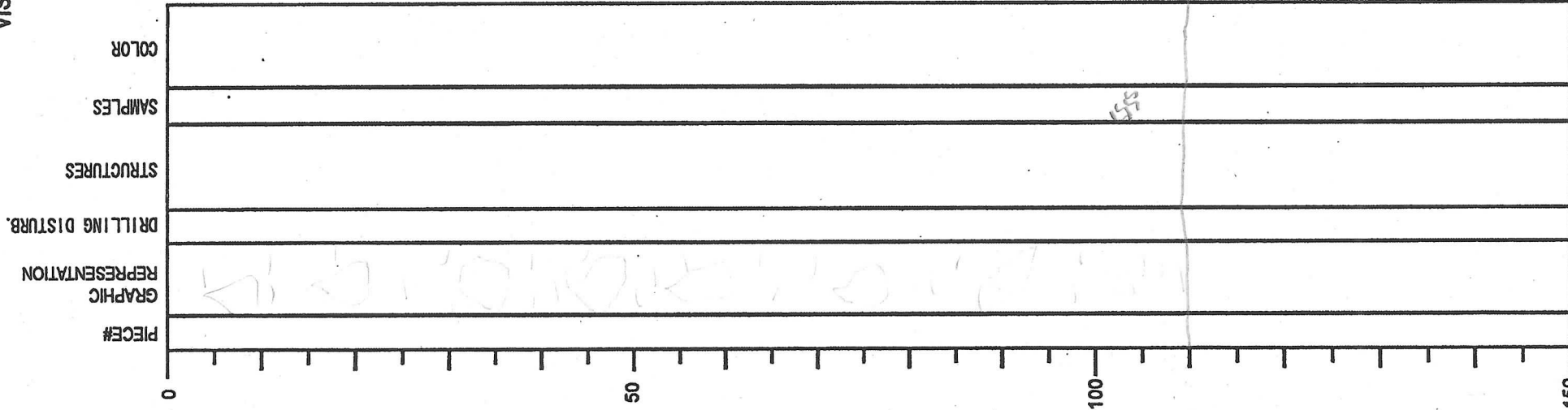
81

131

141

**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. 2  
 DATE: 22 / 12 / 04  
 EXP: 316  
 SITE/HOLE: C0004  
 CORE: M 3  
 SECTION:  
 OBSERVER: MS. RLM



SECTION DESCRIPTION

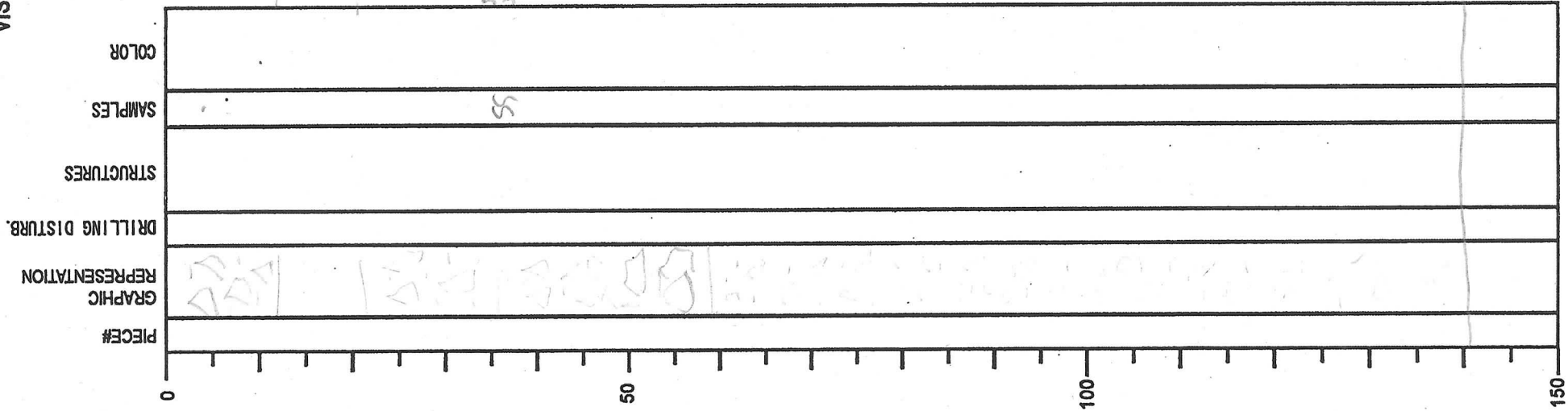
*Dark grayish gray mudstone breccia  
 75 above*

*-42-51 brownish oxidation? areas in the  
 matrix?*

*MS in C/A  
 MS in matrix*

**INTEGRATED OCEAN DRILLIGN PROGRAM**  
**VISUAL CORE DESCRIPTION**

NO. 3  
 DATE: 12/22/2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: MH  
 SECTION: 4  
 OBSERVER: xim / ms



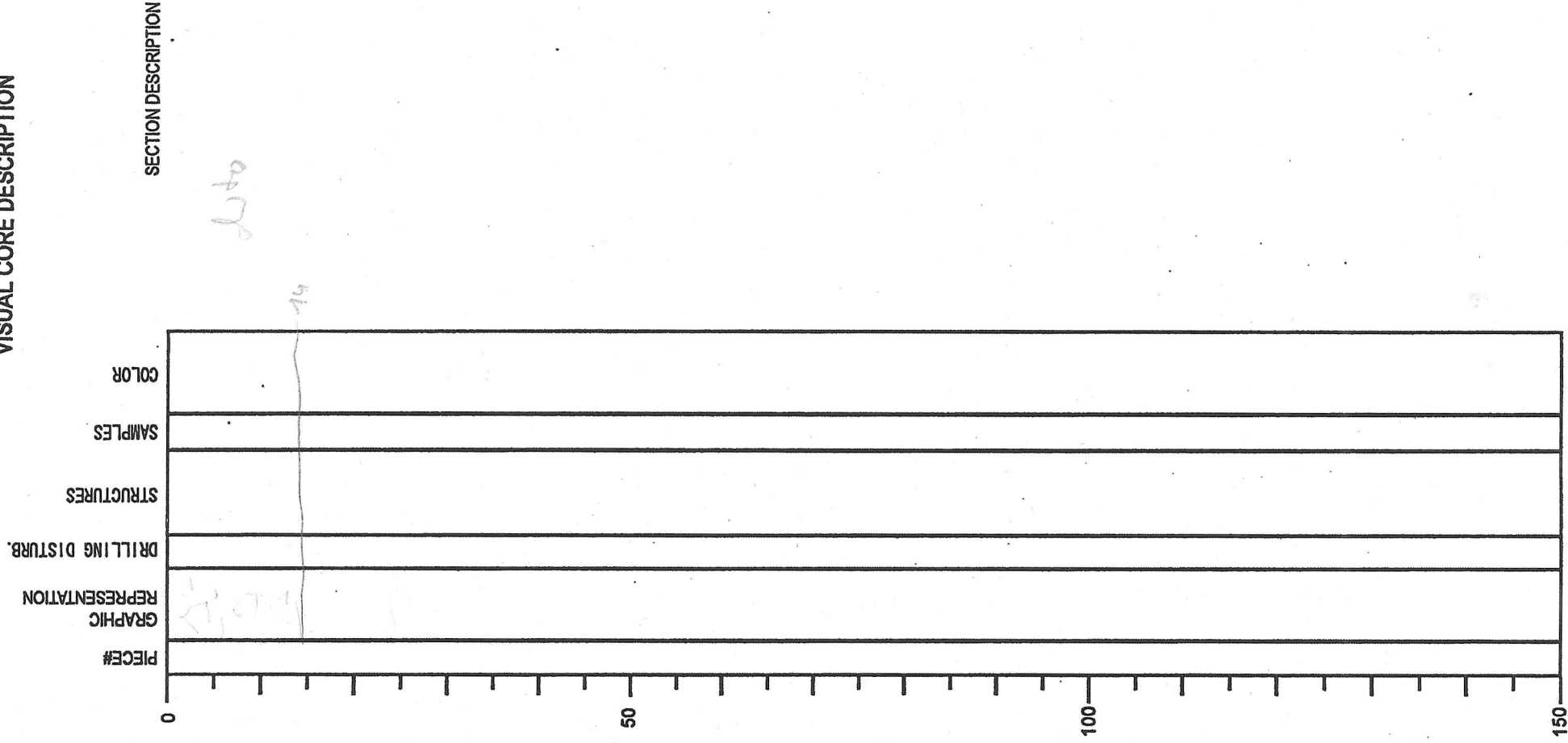
SECTION DESCRIPTION

12 washed out now soupy sand  
 24  
 32 washed out now soupy v fine fine sand (admixed) mud by drilling process  
 interval with big clast  
 biggest clast at 95cm core  
 sample clast

144

**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. <sup>4</sup>  
DATE: 12/12/2007  
EXP: 316  
SITE/HOLE: C0004  
CORE: M5  
SECTION: M5  
OBSERVER: M.S./K.M.

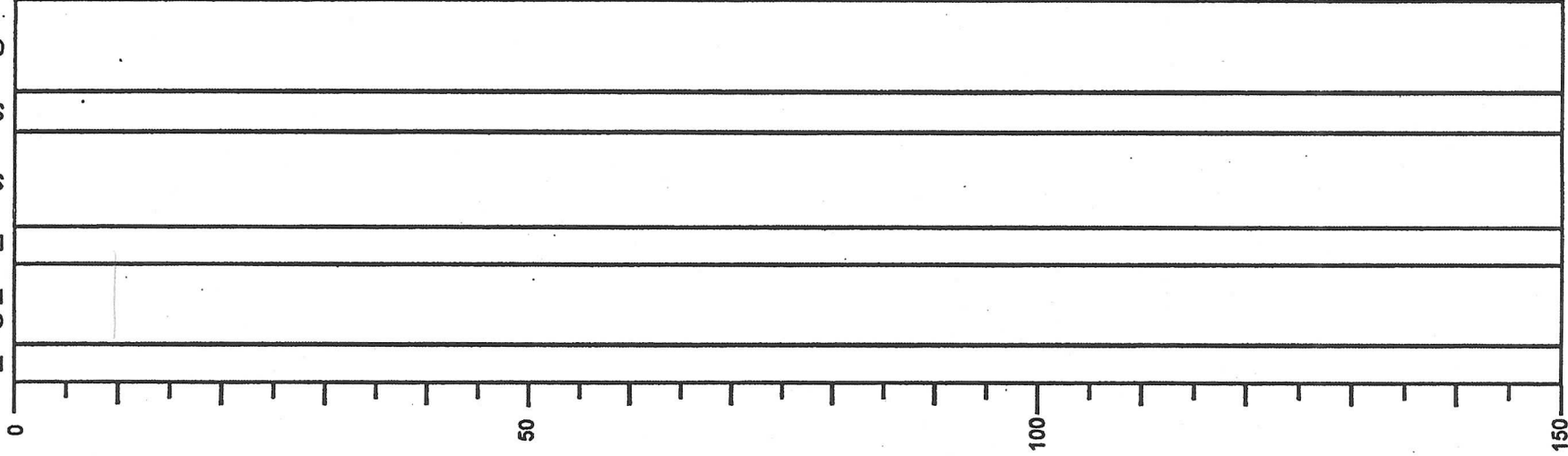


INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. 5  
DATE: 11/1/2002  
EXP: 316  
SITE/HOLE: 044C  
CORE: 1A  
SECTION: CC  
OBSERVER: MS 07

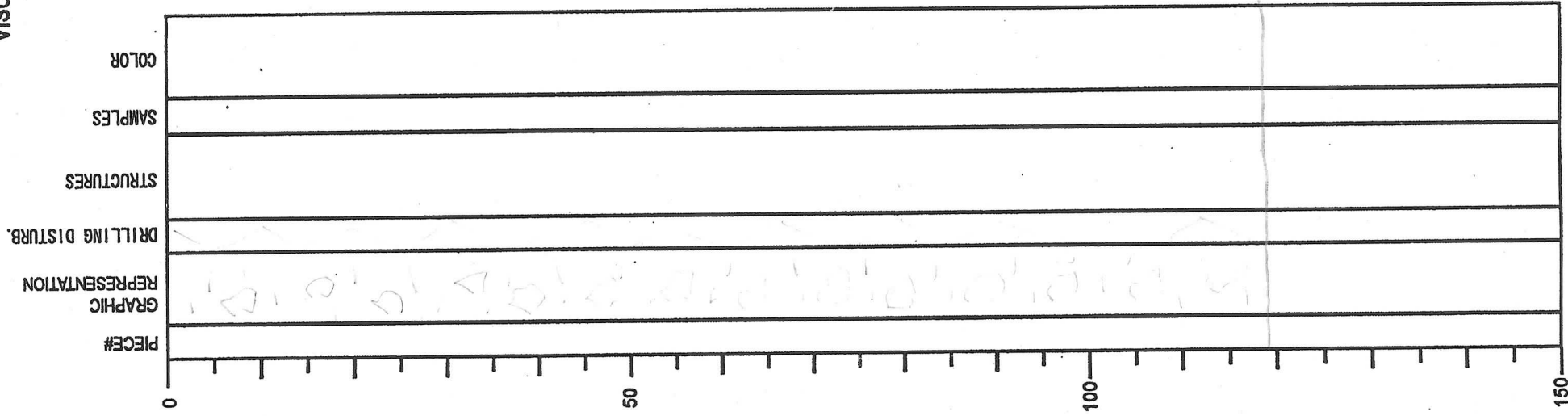
PIECE#  
GRAPHIC REPRESENTATION  
DRILLING DISTURB.  
STRUCTURES  
SAMPLES  
COLOR

SECTION DESCRIPTION



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 22 / 12 / 2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 12X  
SECTION: 1  
OBSERVER: M.S./KLN

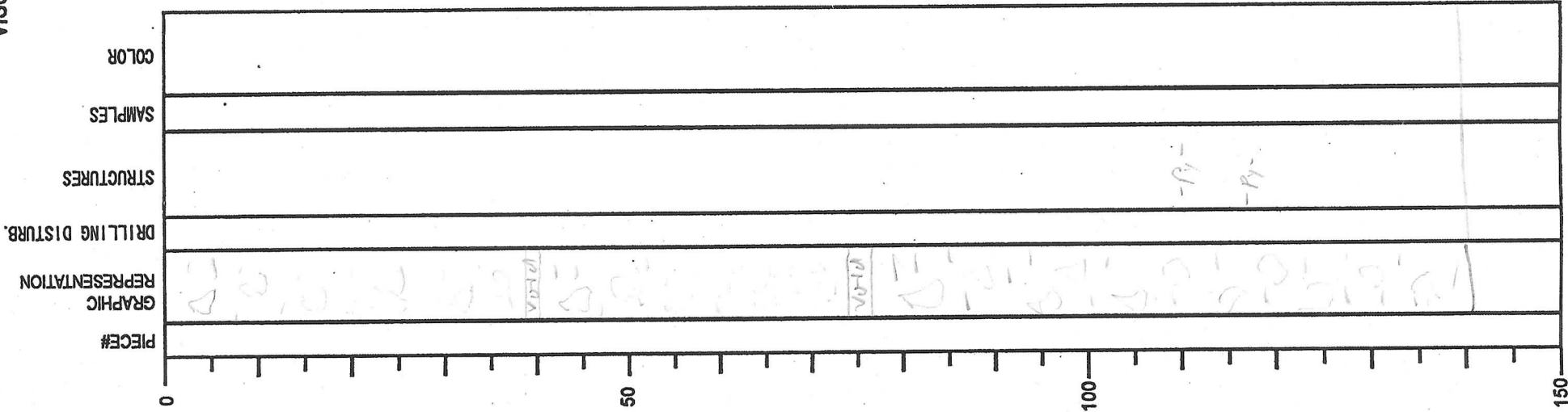


SECTION DESCRIPTION

*dark greenish gray mudstone  
greenschist throughout*

**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22 / m / 2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 12X  
 SECTION: 2  
 OBSERVER: MS / KLM



SECTION DESCRIPTION

*dark greenish gray mudstone breccia throughout*

*39-40 void, ~~some~~ potentially washed out sand?*

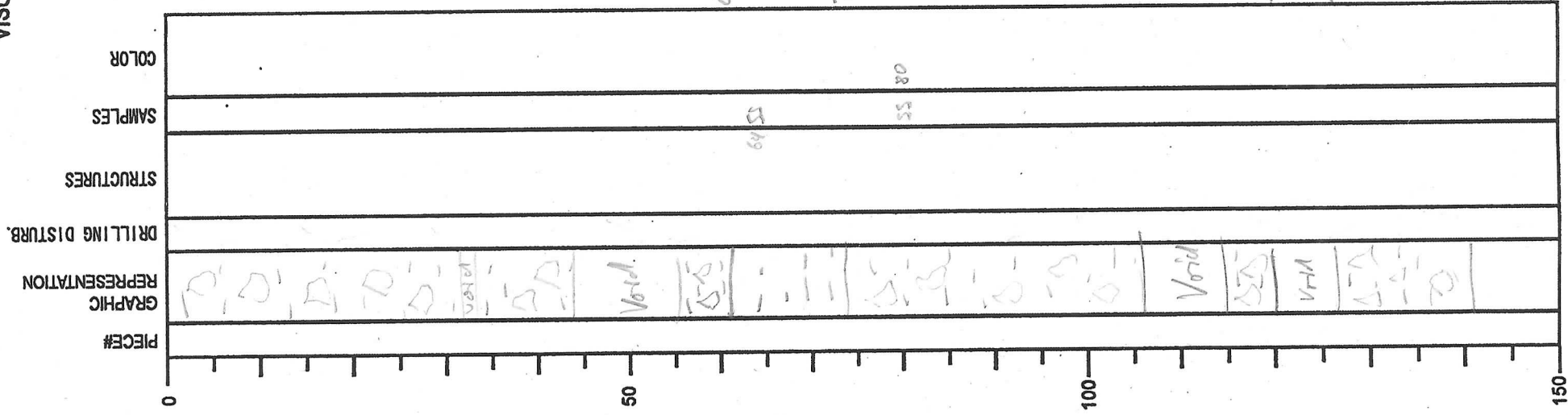
*74-76 void with some soupy mud => washed out sand?*

*112 Pyrite  
 114 Pyrite between the clasts*



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
 DATE: 22 / 12 / 2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 12A  
 SECTION: 3  
 OBSERVER: M.S. / 12/17



SECTION DESCRIPTION

Dark greenish gray mudstone breccia

sharp contact to mudstone breccia above  
 62 - 75 greenish gray silty clay with greenish color sand → Nonoposits in Si particles  
 73 lower contact somewhat gradational

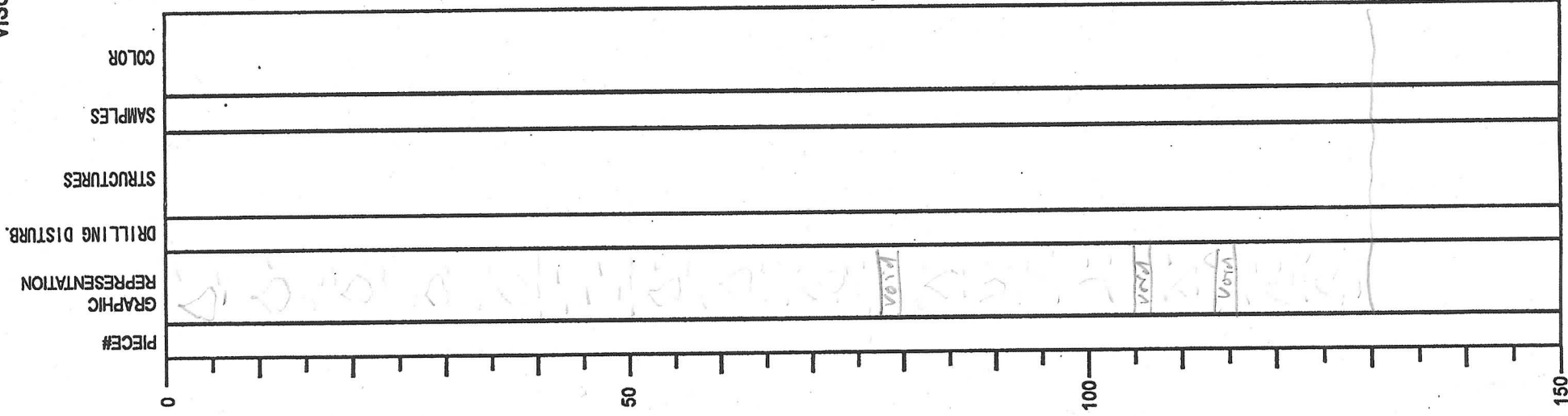
120 - 126 void washed out sandy material → sand ?  
 126  
 127

**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22 / 12 / 20 07  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 12X  
 SECTION: 4  
 OBSERVER: 17.5 / KM

SECTION DESCRIPTION

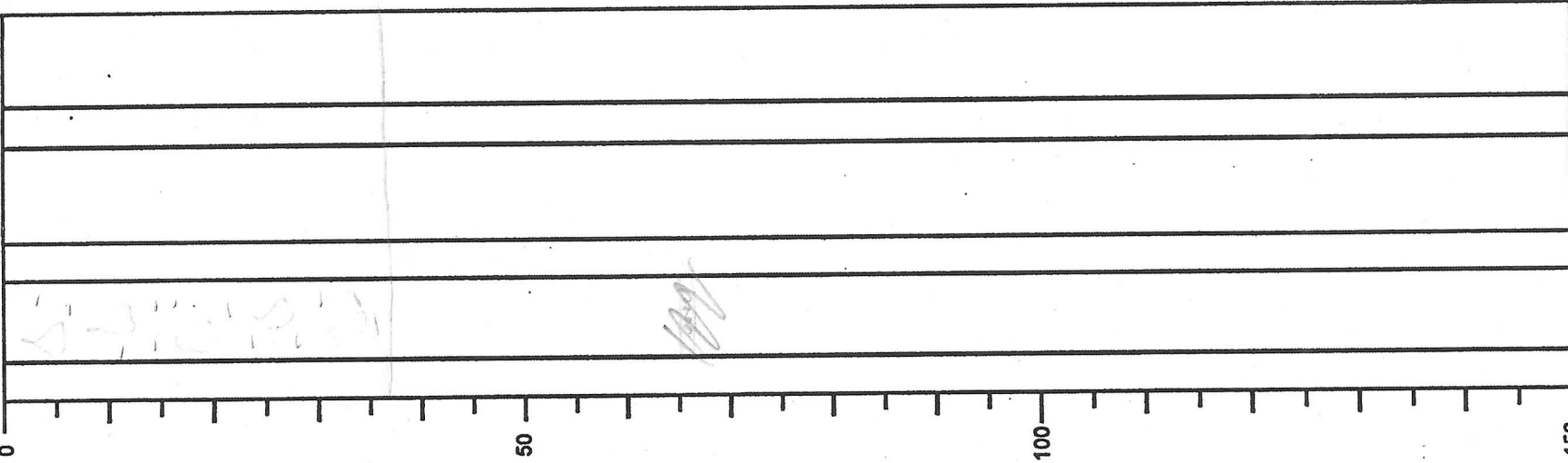
dark greenish gray breccia  
 with some internal shoring less to absent  
 brecciation (e.g. 40-50 cm)



**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22/11/2007  
 EXP: 316  
 SITE/HOLE: C0004 C  
 CORE: 12X  
 SECTION: 5  
 OBSERVER: M.S. / KLM

SECTION DESCRIPTION



dark greenish gray mudstone breccia throughout

39

COLOR

SAMPLES

STRUCTURES

DRILLING DISTURB.

REPRESENTATION

GRAPHIC

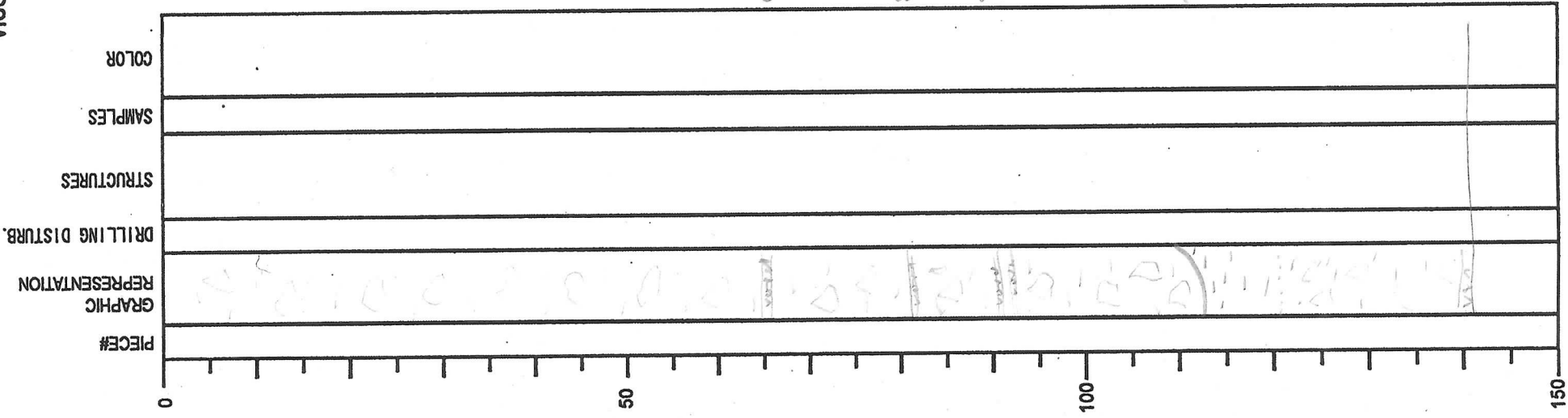
PIECE#

**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22 / 12 / 20 07  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 12X  
 SECTION: 2  
 OBSERVER: MS / KLM

SECTION DESCRIPTION

*dark greenish gray mudstone breccia*



122

82

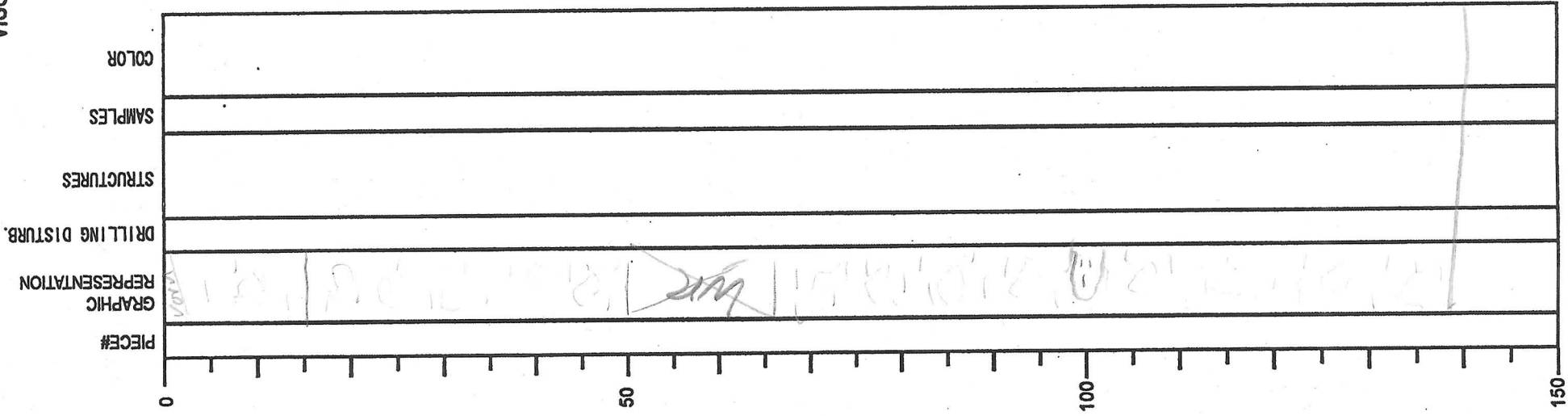
92  
94

*122 eroded-base sharp contact  
 silty clay greenish gray  
 grading contact*

141

**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 1 / 20  
 EXP: \_\_\_\_\_  
 SITE/HOLE: \_\_\_\_\_  
 CORE: 12x8  
 SECTION: \_\_\_\_\_  
 OBSERVER: \_\_\_\_\_



SECTION DESCRIPTION

sharp contact at 15 cm

patch or clast? lighter dark greenish gray  
with some darker colors around

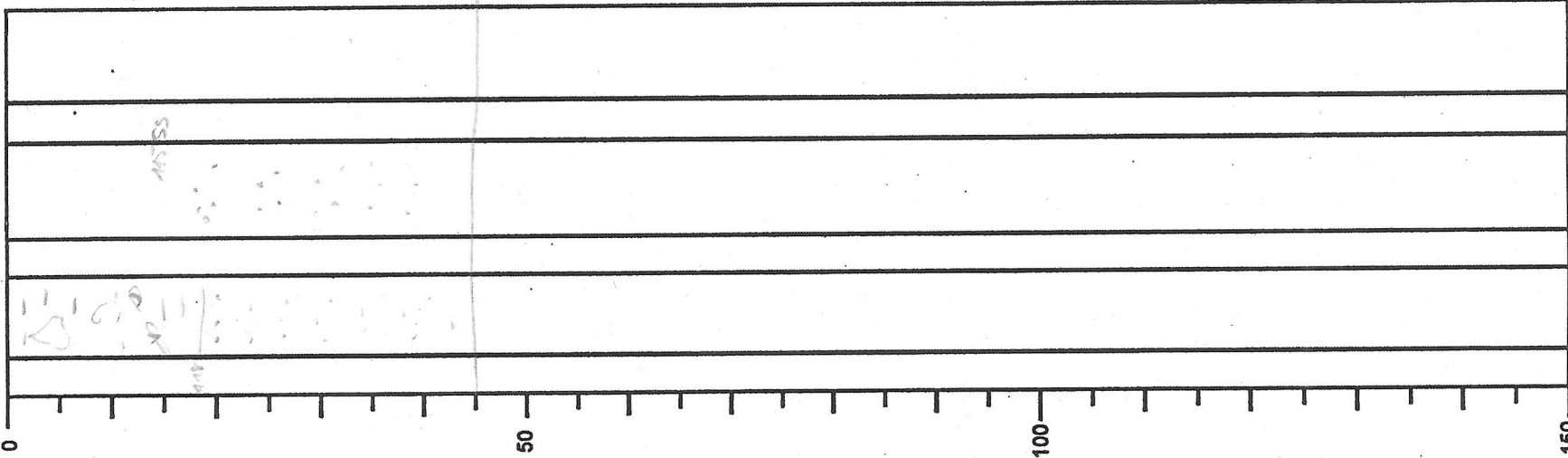
phases showing slippy lighter colors  
and greenish banding

**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 1 / 20  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 12X  
 SECTION: 9  
 OBSERVER: M.S./KLM

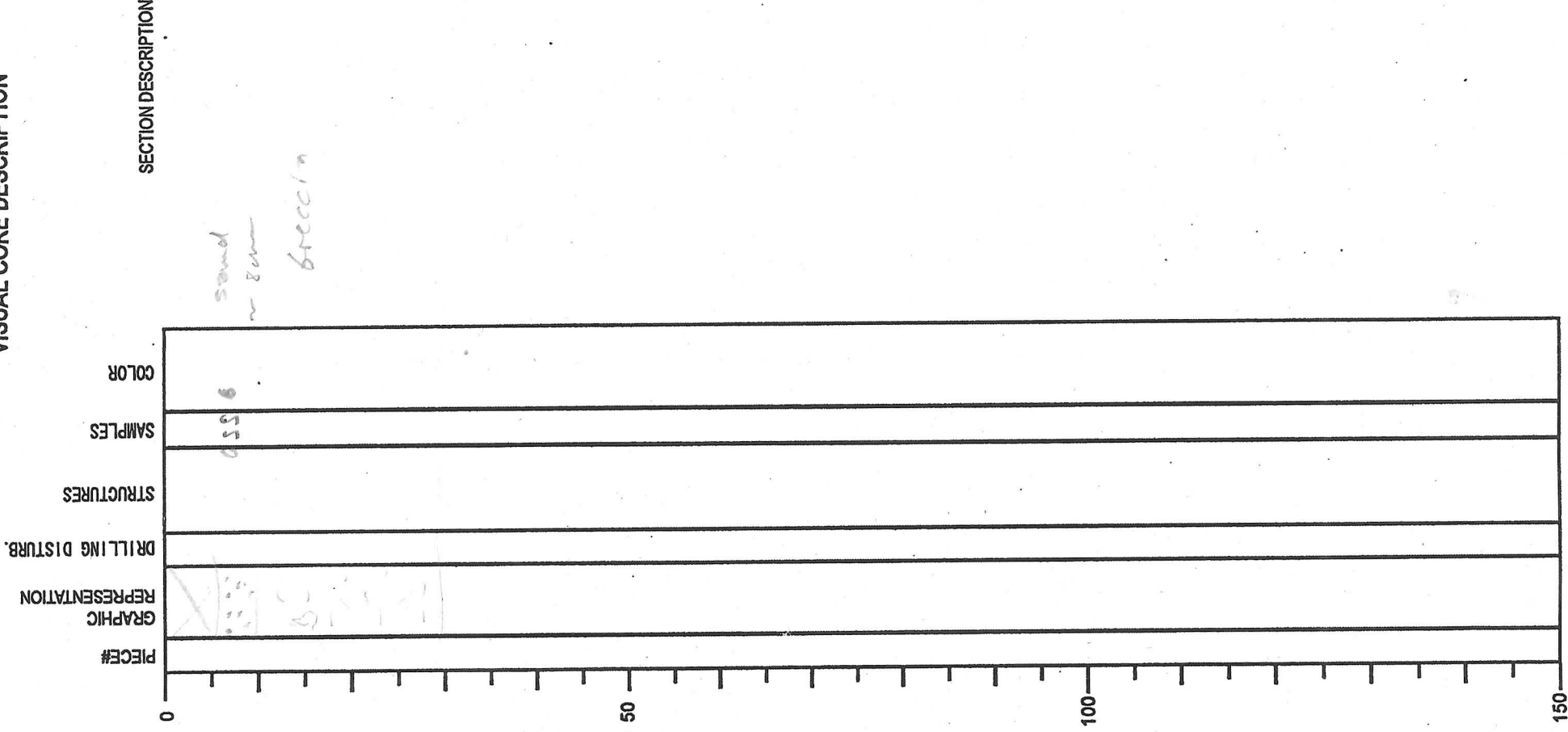
SECTION DESCRIPTION

PIECE#  
 GRAPHIC REPRESENTATION  
 DRILLING DISTURB.  
 STRUCTURES  
 SAMPLES  
 COLOR



**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 1 / 20  
 EXP: \_\_\_\_\_  
 SITE/HOLE: C0004 C  
 CORE: 12X - CC  
 OBSERVER: M.J. KUMAR

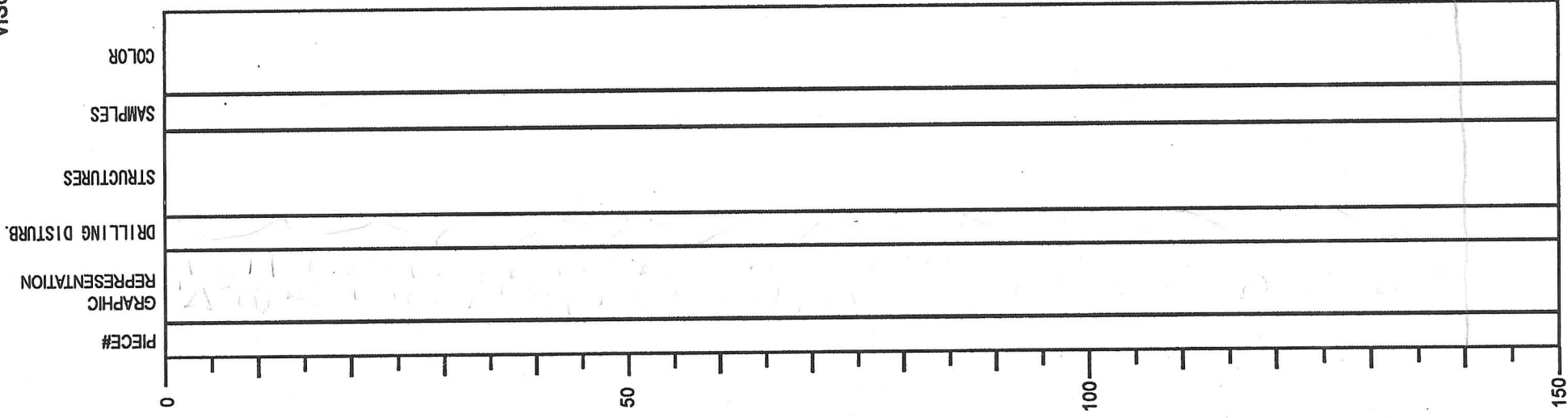


**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 22 / 12 / 20 07  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 13x  
 SECTION: 1  
 OBSERVER: M.S./K.M.

SECTION DESCRIPTION

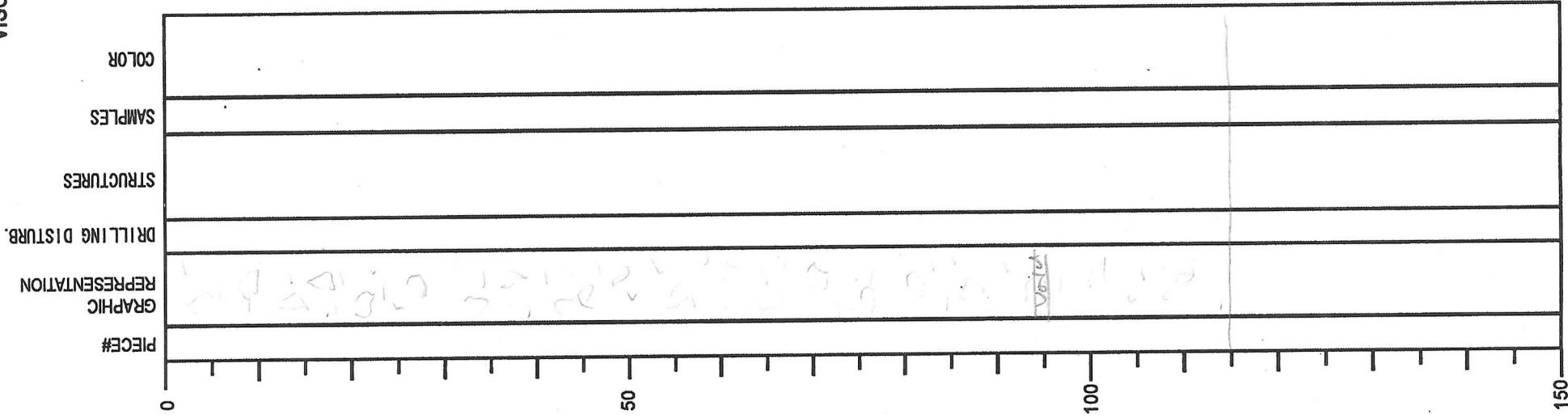
dark greenish gray mudstone  
 breccia throughout  
 clear evidences for ~~breccia~~ breccia with lenses  
 but brecciation is enhanced due to  
 drilling





INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 1 / 20  
EXP: \_\_\_\_\_  
SITE/HOLE: \_\_\_\_\_  
CORE: 13X  
SECTION: 2  
OBSERVER: \_\_\_\_\_



SECTION DESCRIPTION

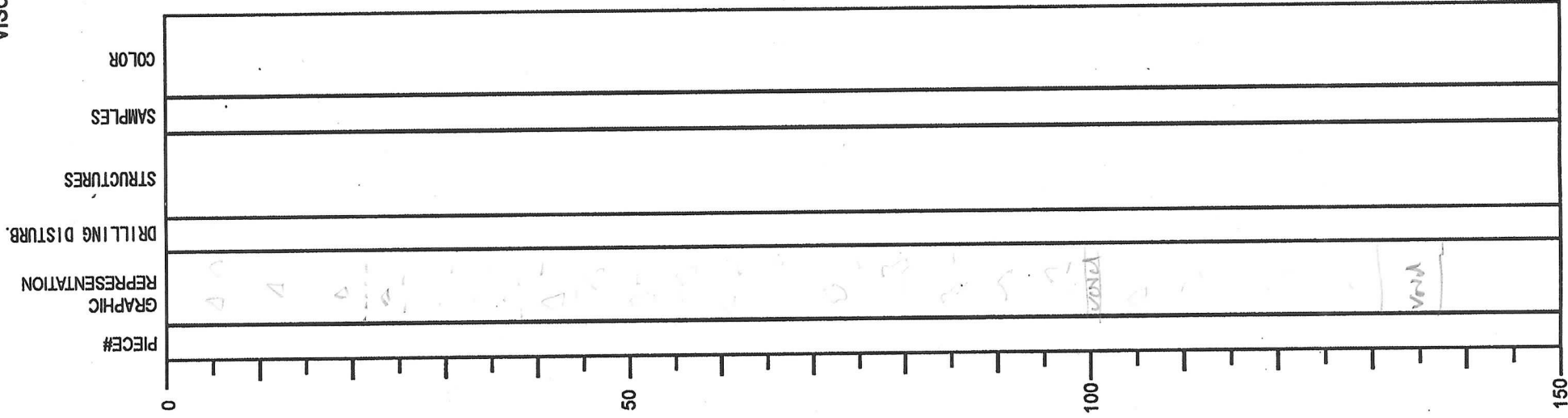
dark greenish gray breccia  
(possibly enhanced brecciation due  
to coring?)

path of slightly lighter color without brecciated texture  
1001 - 1008

15

INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 1 / 20  
EXP: \_\_\_\_\_  
SITE/HOLE: \_\_\_\_\_  
CORE: 13X  
SECTION: 4  
OBSERVER: \_\_\_\_\_



SECTION DESCRIPTION

Same Breccia  
with an interval 22 - 36 showing  
particles of not brecciated greenish gray silty clays

152-157 void with Sony plug  
→ Swashed out sand?

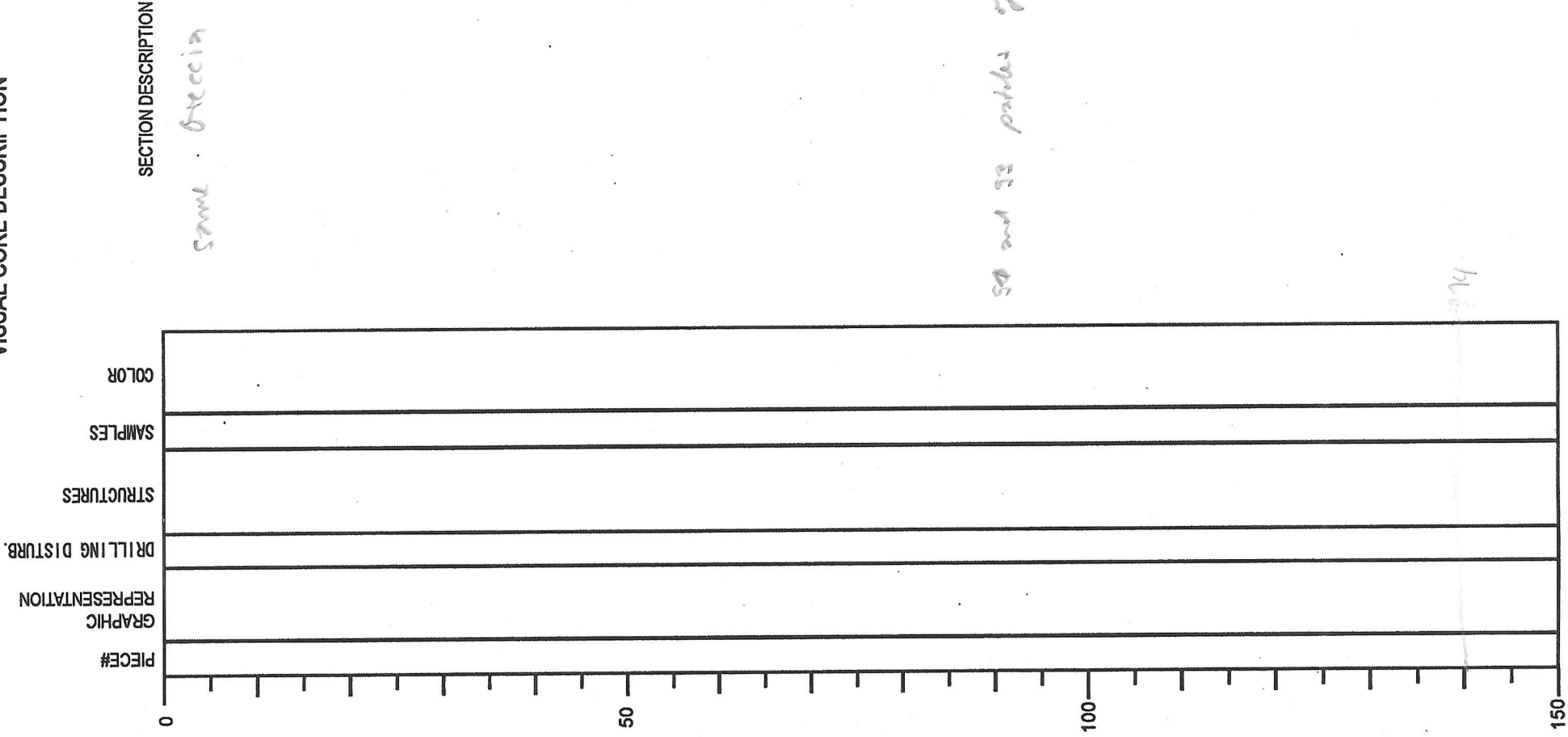
**INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 1 / 20  
 EXP: \_\_\_\_\_  
 SITE/HOLE:  
 CORE: 13x5  
 SECTION:  
 OBSERVER:

PIECE#	GRAPHIC REPRESENTATION	DRILLING DISTURB.	STRUCTURES	SAMPLES	COLOR	SECTION DESCRIPTION
0						
26						Some breccia
35						Some breccia
45						
73						
150						

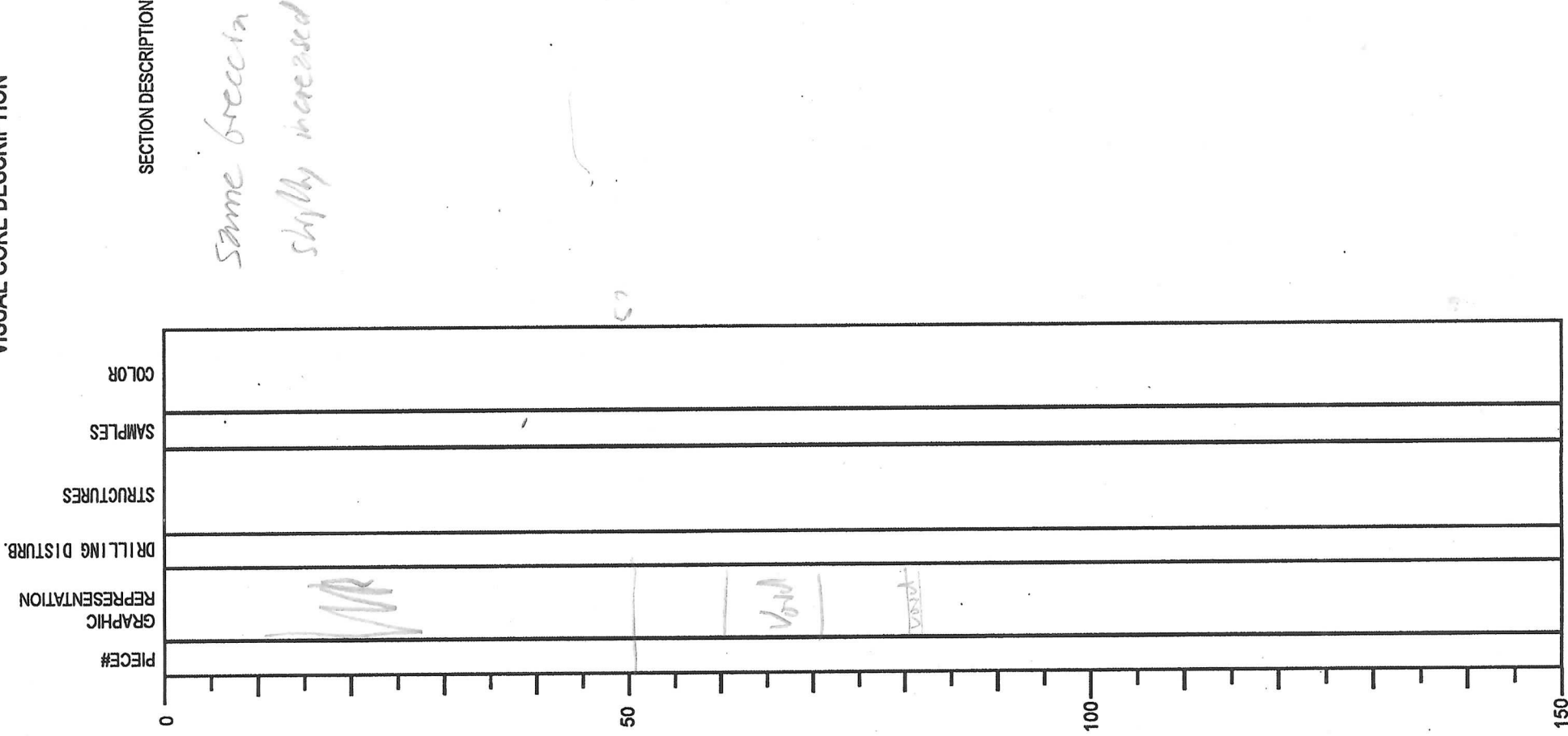
INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: \_\_\_\_ / \_\_\_\_ / 20\_\_\_\_  
EXP: \_\_\_\_\_  
SITE/HOLE: \_\_\_\_\_  
CORE: *734*  
SECTION: *6*  
OBSERVER: \_\_\_\_\_



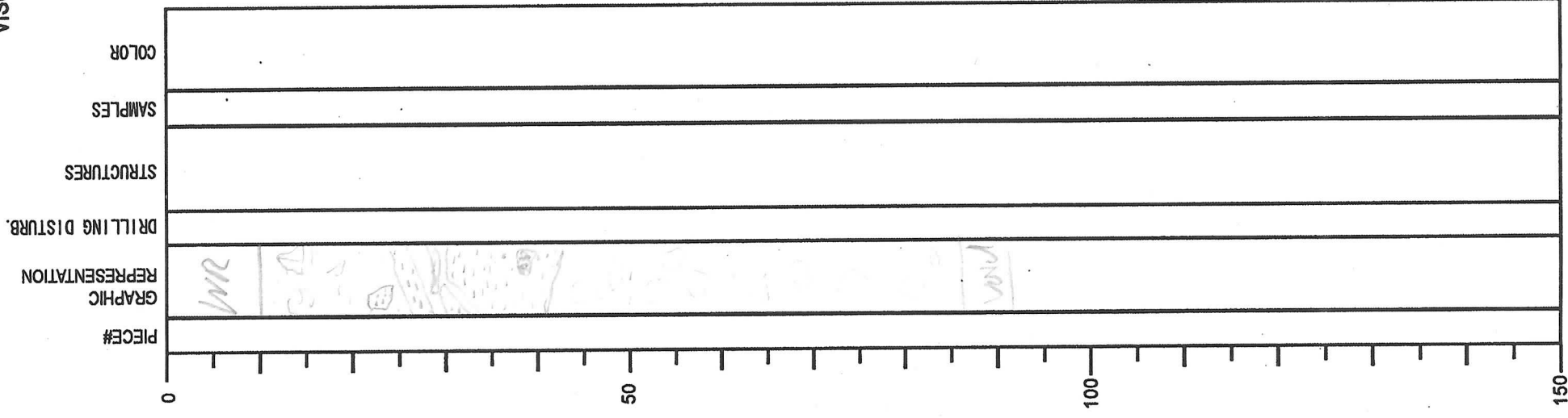
INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 1 / 20  
EXP: \_\_\_\_\_  
SITE/HOLE:  
CORE: 13X  
SECTION: 7  
OBSERVER: MS ecc



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
 DATE: 1 / 20  
 EXP: \_\_\_\_\_  
 SITE/HOLE: *152*  
 CORE: *8*  
 SECTION: *8*  
 OBSERVER: *FTS KCC*



SECTION DESCRIPTION

*dark greenish gray mudstone  
 still fractured*

*greenish gray (clay) pieces of  
 silty clay (mudstone core)  
 ⇒ mudclast?*

*also parts of the dark greenish gray  
 mudstone appear to be within the  
 silty clay*

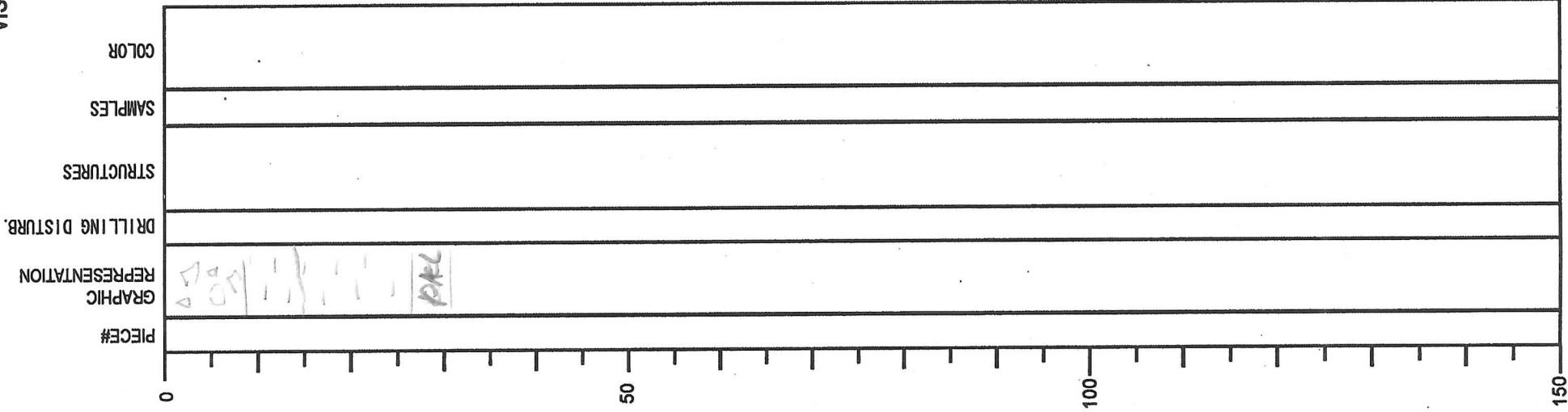
INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 1 / 20  
EXP: \_\_\_\_\_  
SITE/HOLE: \_\_\_\_\_  
CORE: 13x  
SECTION: CC  
OBSERVER: \_\_\_\_\_

SECTION DESCRIPTION

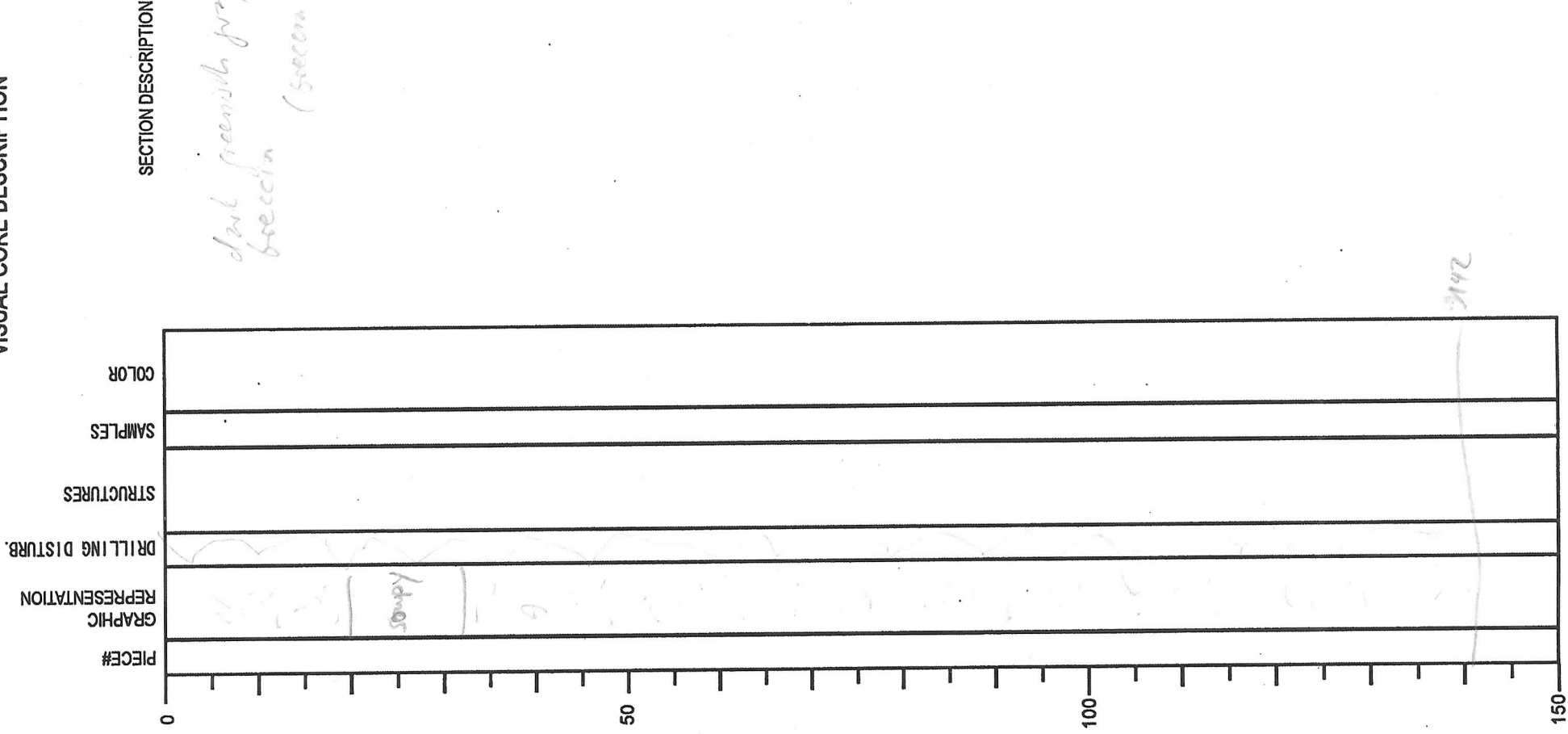
~~greenish~~ dark greenish mudstone

fine blue gray siltstone  
and greenish gray mud (condensed  
core)  
(lower part)



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

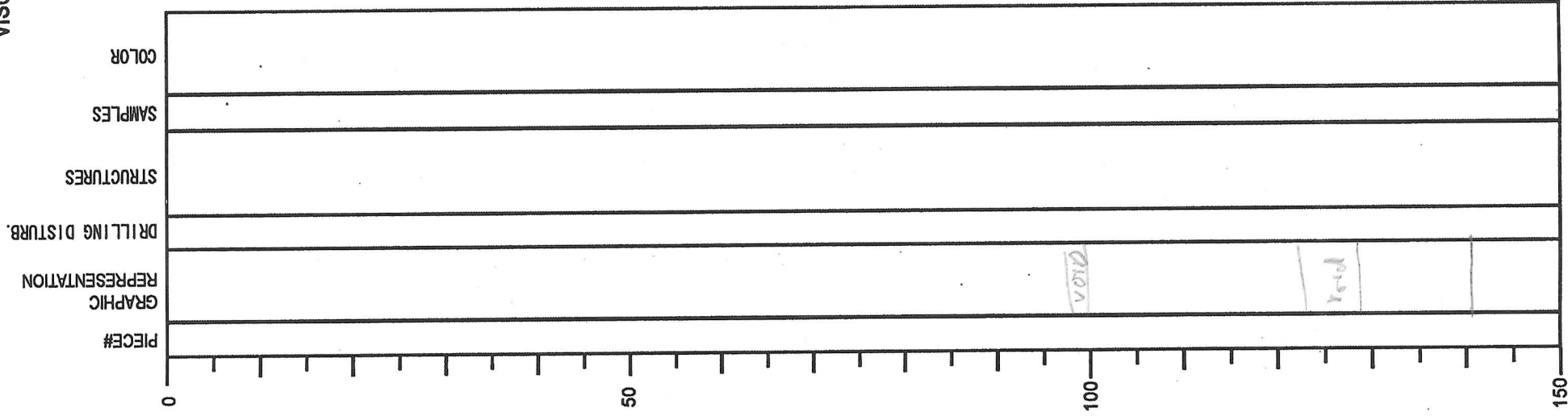
NO. \_\_\_\_\_  
DATE: 22 11/2 / 2007  
EXP: 316  
SITE/HOLE: C0004 C  
CORE: 14X  
SECTION: 1  
OBSERVER: MS





INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 1 / 20  
EXP: \_\_\_\_\_  
SITE/HOLE: \_\_\_\_\_  
CORE: 14X  
SECTION: 2  
OBSERVER: \_\_\_\_\_

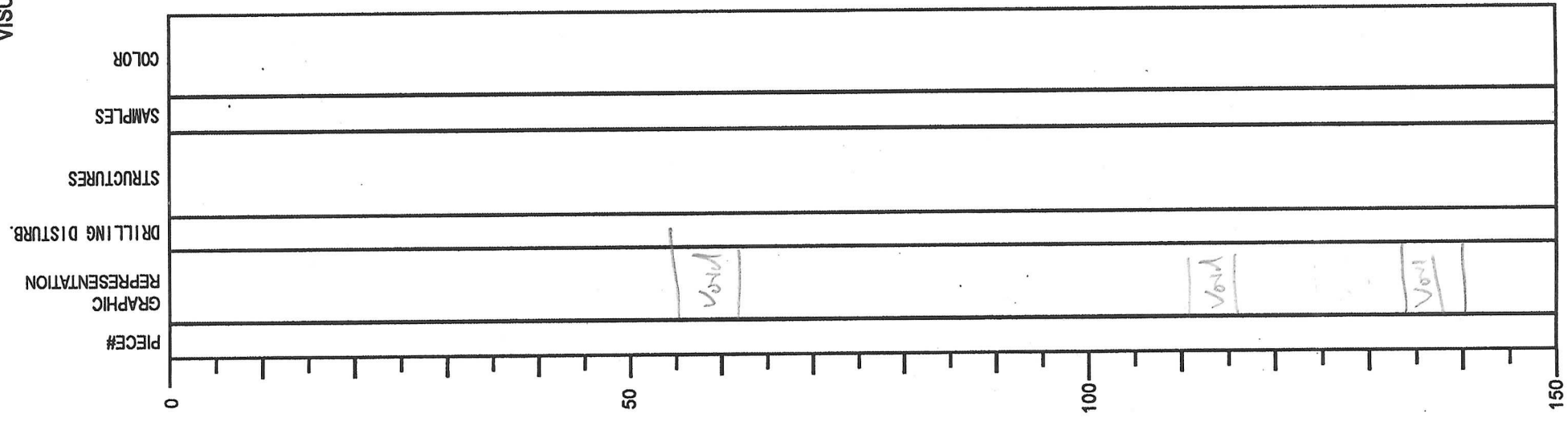


SECTION DESCRIPTION

*same breccia throughout*

INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
 DATE: 1 / 20  
 EXP: \_\_\_\_\_  
 SITE/HOLE: \_\_\_\_\_  
 CORE: 147  
 SECTION: 3  
 OBSERVER: \_\_\_\_\_



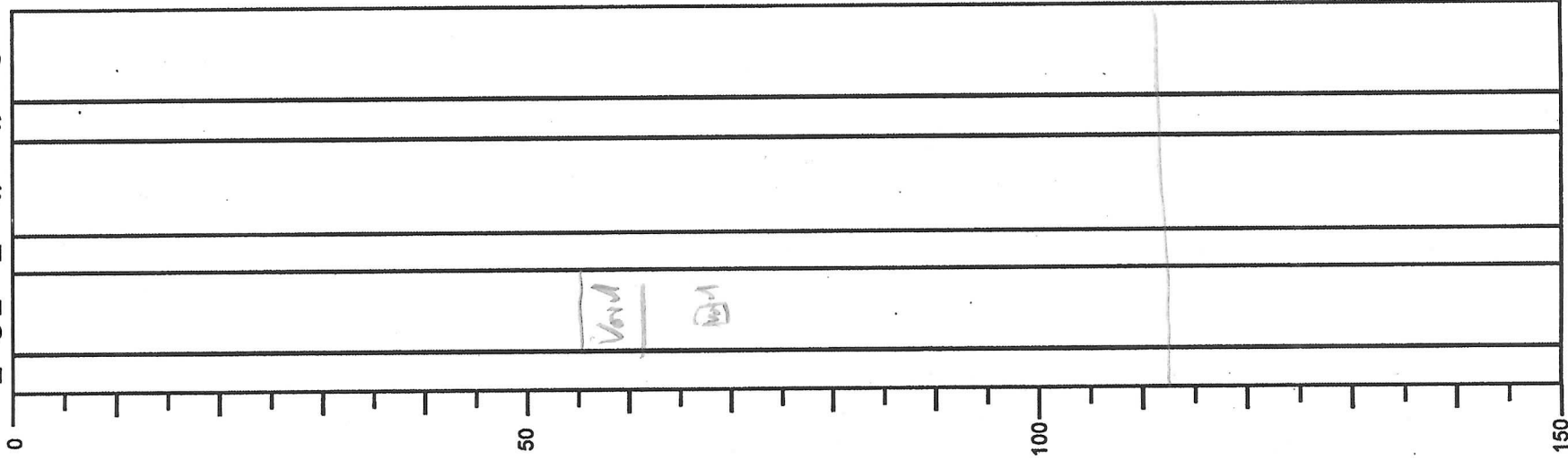
SECTION DESCRIPTION

Same breccia throughout  
+ coring disturbance

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 1 / 20  
EXP: \_\_\_\_\_  
SITE/HOLE:  
CORE: 142  
SECTION: 4  
OBSERBER: \_\_\_\_\_

PIECE#  
GRAPHIC REPRESENTATION  
DRILLING DISTURB.  
STRUCTURES  
SAMPLES  
COLOR  
SECTION DESCRIPTION

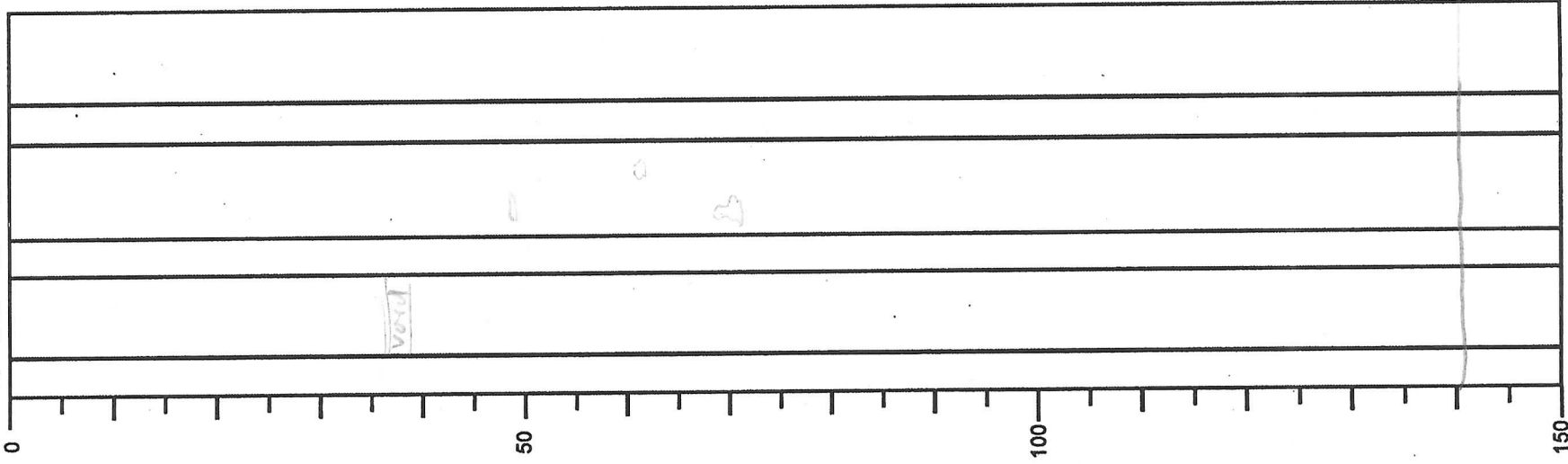


*same breccia throughout  
+ drilling disturbances*

INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
 DATE: 1 / 20  
 EXP: \_\_\_\_\_  
 SITE/HOLE: \_\_\_\_\_  
 CORE: C-14  
 SECTION: 6  
 OBSERVER: \_\_\_\_\_

SECTION DESCRIPTION



same breccia throughout

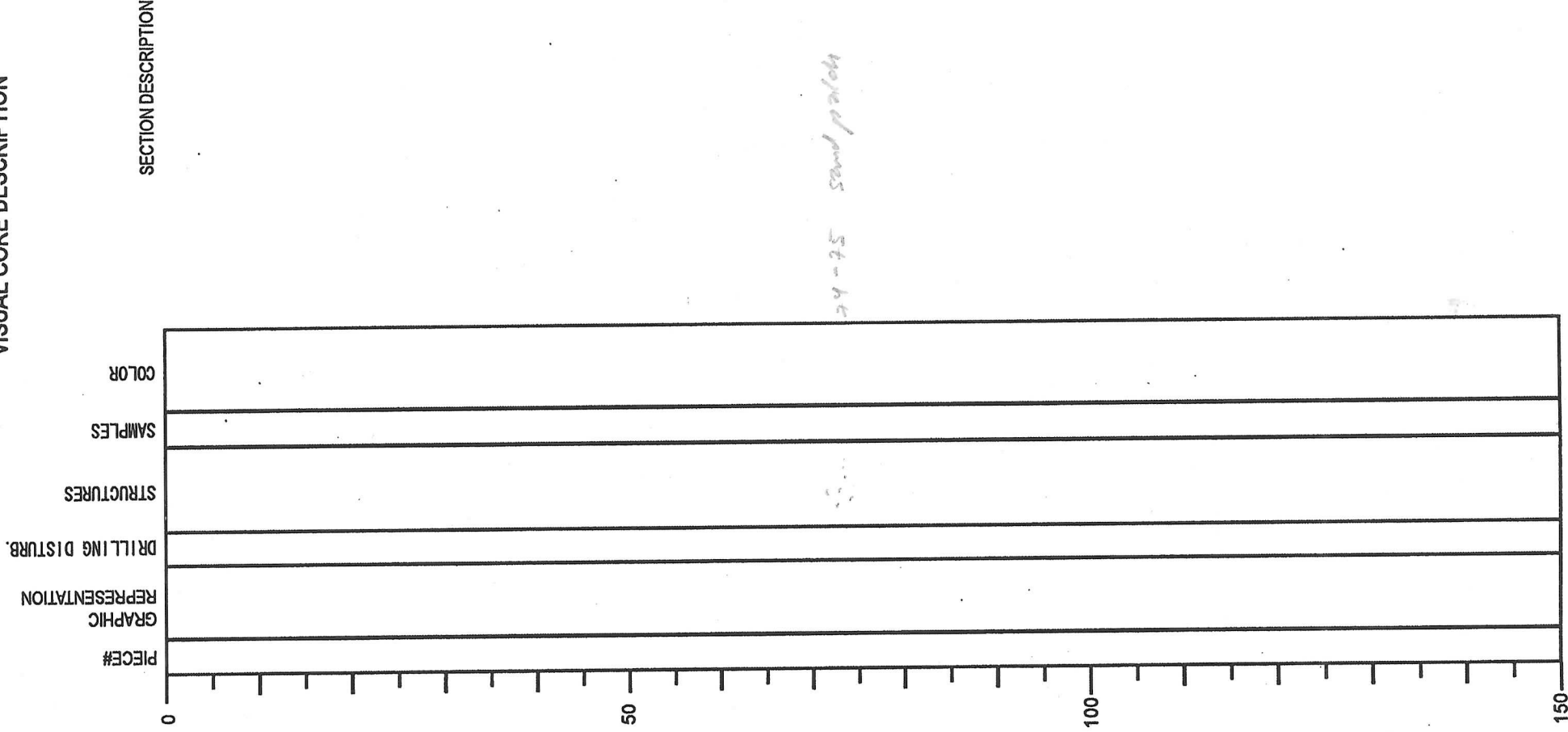
brownish patches ? oxidation patches?

brownish patches

brownish patches

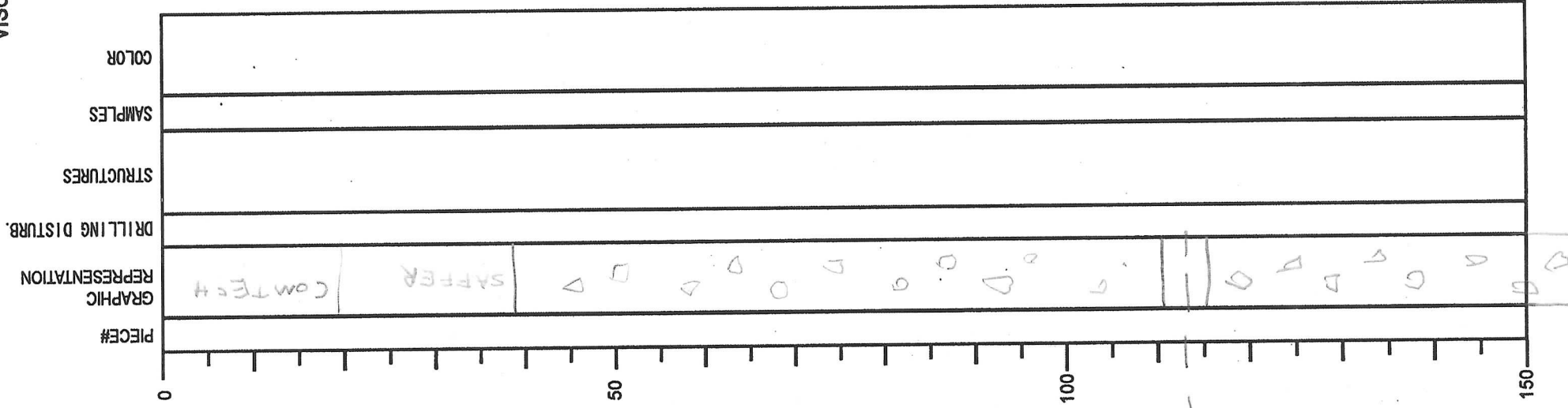
INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 1 / 20  
EXP: \_\_\_\_\_  
SITE/HOLE: \_\_\_\_\_  
CORE: 14X  
SECTION: 7  
OBSERVER: MS



**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 1 / 20  
 EXP: \_\_\_\_\_  
 SITE/HOLE: \_\_\_\_\_  
 CORE: 14X  
 SECTION: E  
 OBSERVER: UN



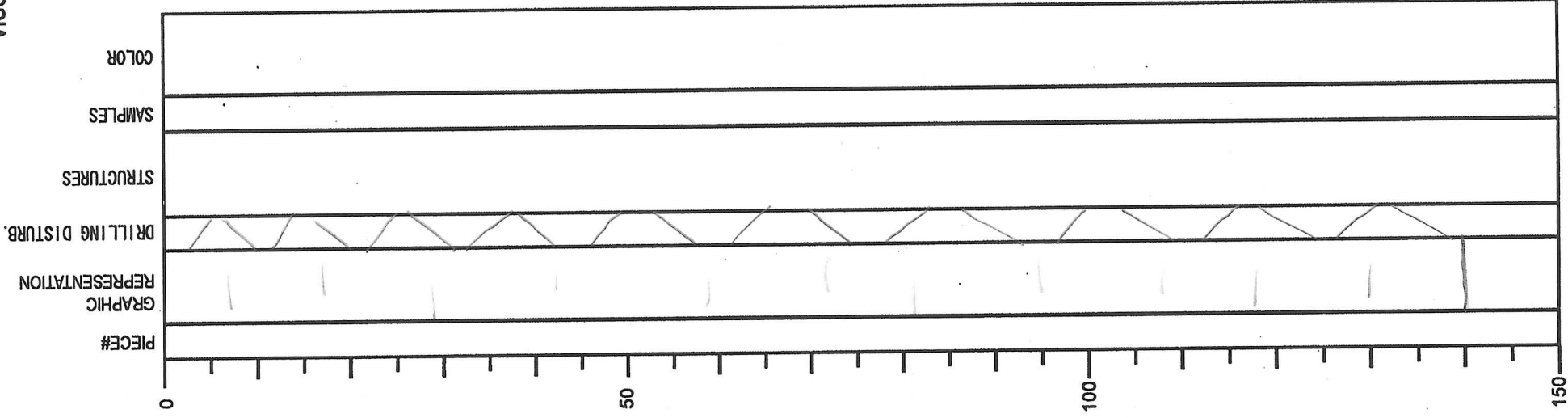
*Some breccia throughout  
 - dark greenish grey*

*Some breccia as above*

*CC*

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. DATE: 12/23/2007  
 EXP: 3/6 SITE/HOLE: C0004C  
 CORE: 15X SECTION: 1  
 OBSERVER: CLF



SECTION DESCRIPTION

Dark greenish-gray mudstone

Heavily disturbed

CT scan - common drilling cracks + brecciation,

poorly developed breccia

z jigsaw fits locally seen.

common small pyritized burrows.

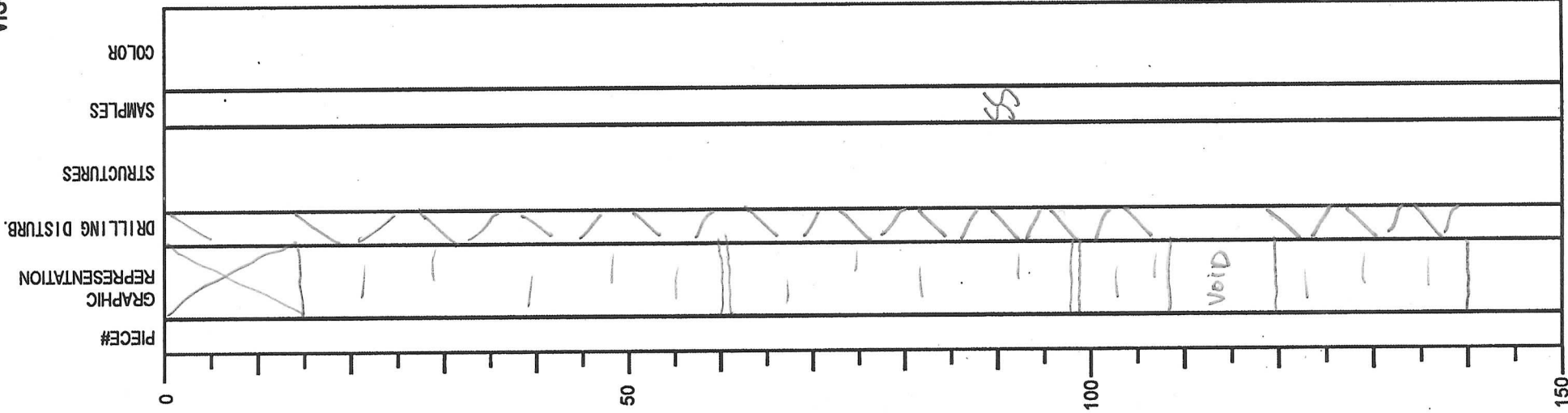
129cm Glauconite nodule

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
 DATE: 12 12312007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 15X  
 SECTION: 2  
 OBSERVER: CLF

SECTION DESCRIPTION

Mott  
 Dark greenish-gray ~~sandstone~~ silty clay



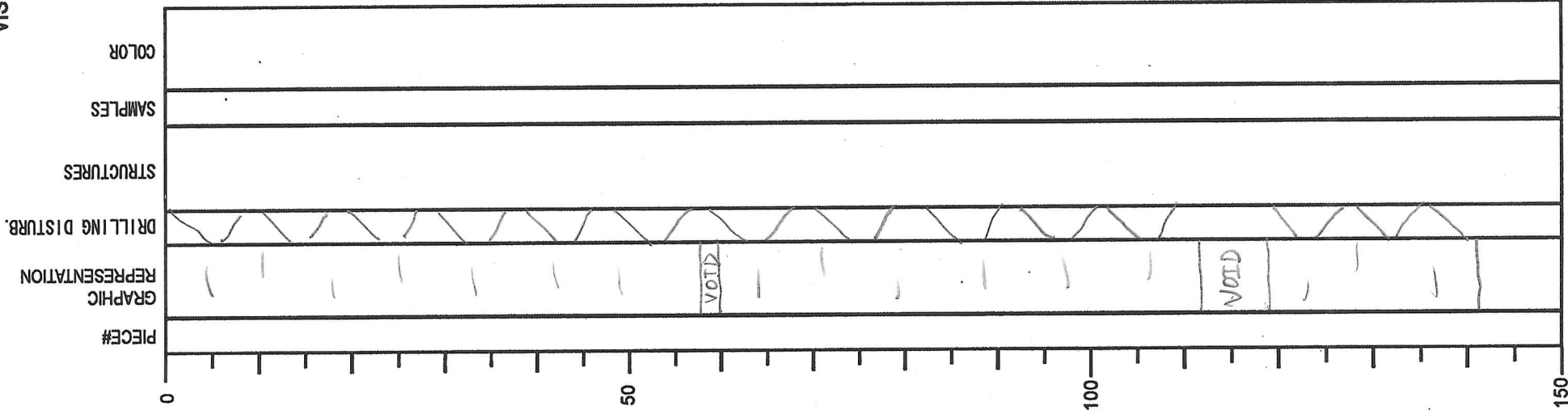


INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
 DATE: 12/23/2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 15X  
 SECTION: 3  
 OBSERVER: CLF

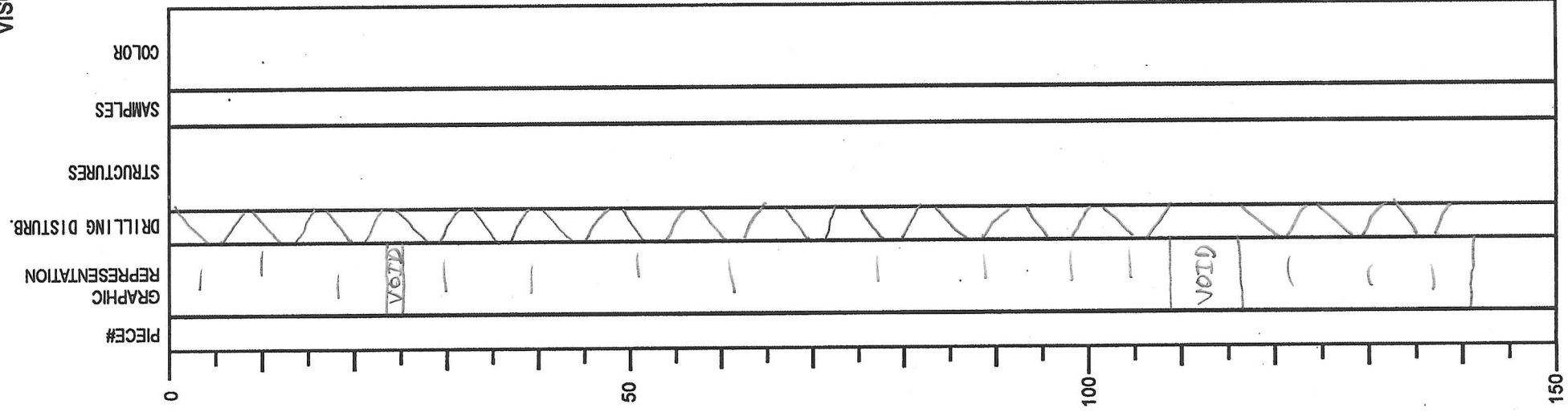
SECTION DESCRIPTION

Greenish gray silty claystone  
 (no variation observed)  
 Heavily disturbed



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. DATE: 12 12312007  
EXP: 316 SITE/HOLE: C0004C  
CORE: 15X SECTION: 4  
OBSERVER: CLF



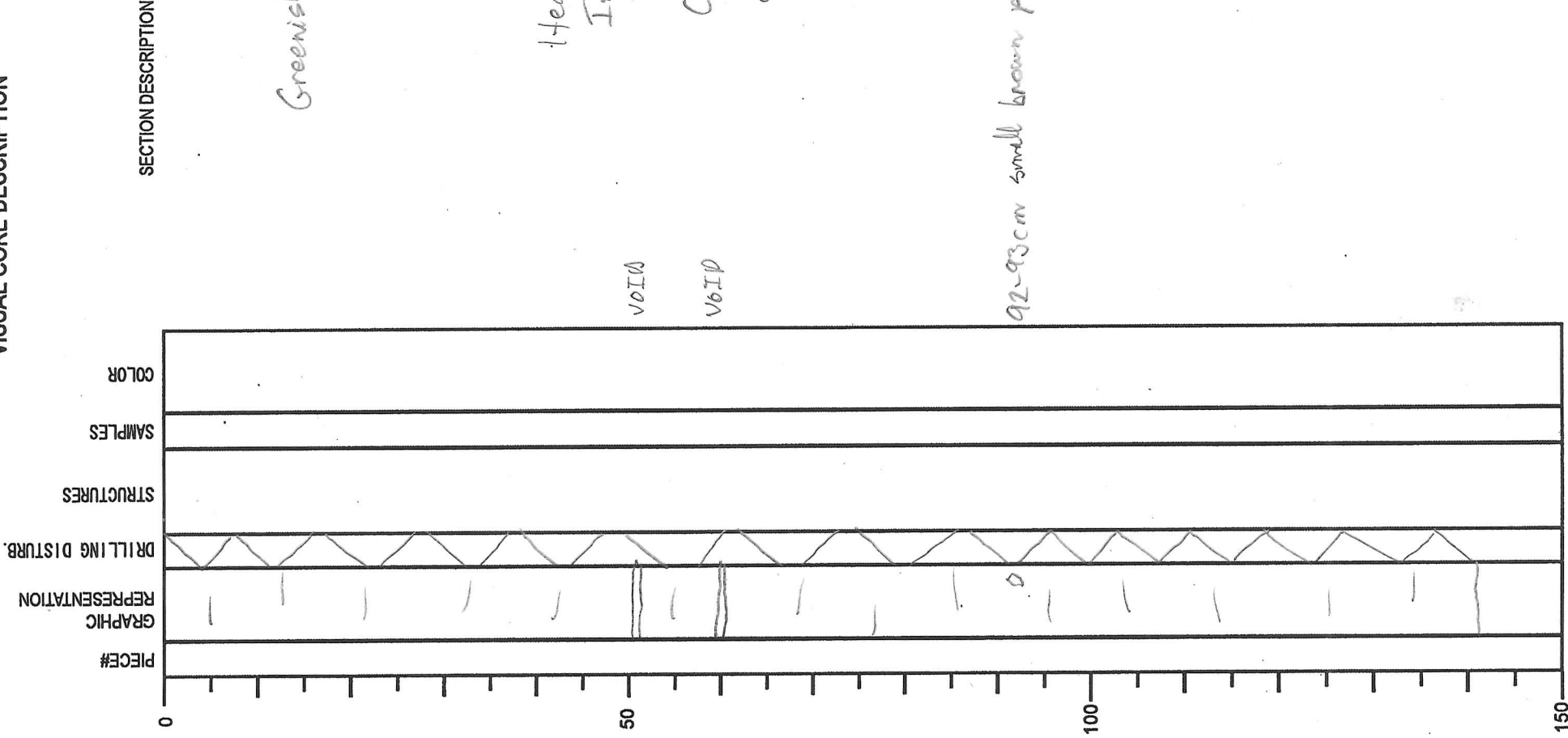
SECTION DESCRIPTION

*Greenish-gray silty claystone*

*Heavily disturbed, many openings.*

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
 DATE: 12/23/2007  
 EXP: 316  
 SITE/HOLE: C0004C  
 CORE: 15X  
 SECTION: 5  
 OBSERVER: CLF



Greenish silty claystone

Heavily disturbed.  
Incipient biscuits.

CT - breccia texture  
evident in parts of  
core.

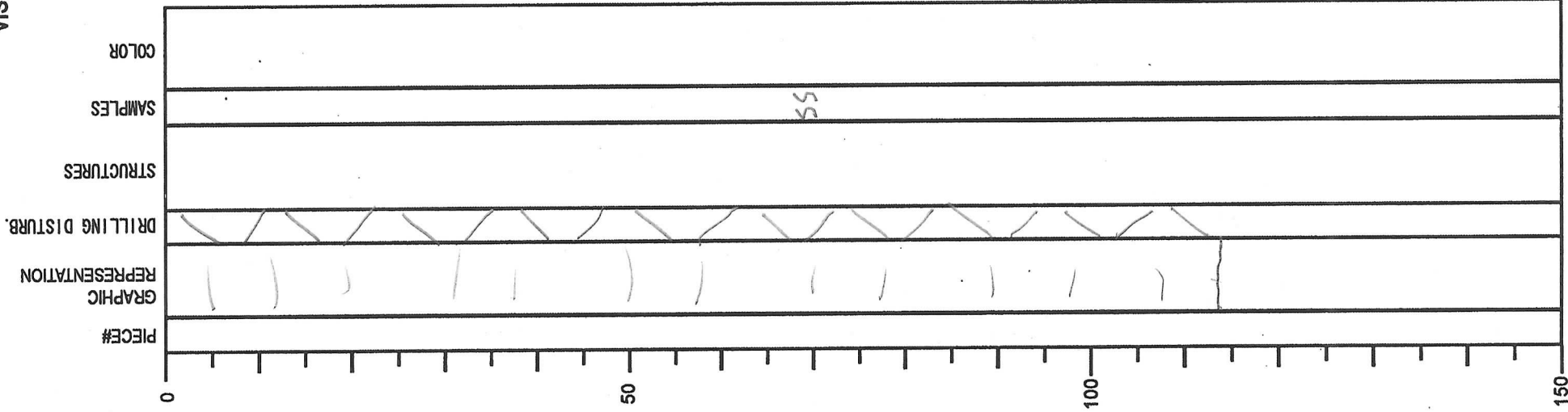
VOID

VOID

92-93cm small brown patch

INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 12 123 / 20 07  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 15X  
SECTION: B  
OBSERVER: CLF



Same as previous  
section

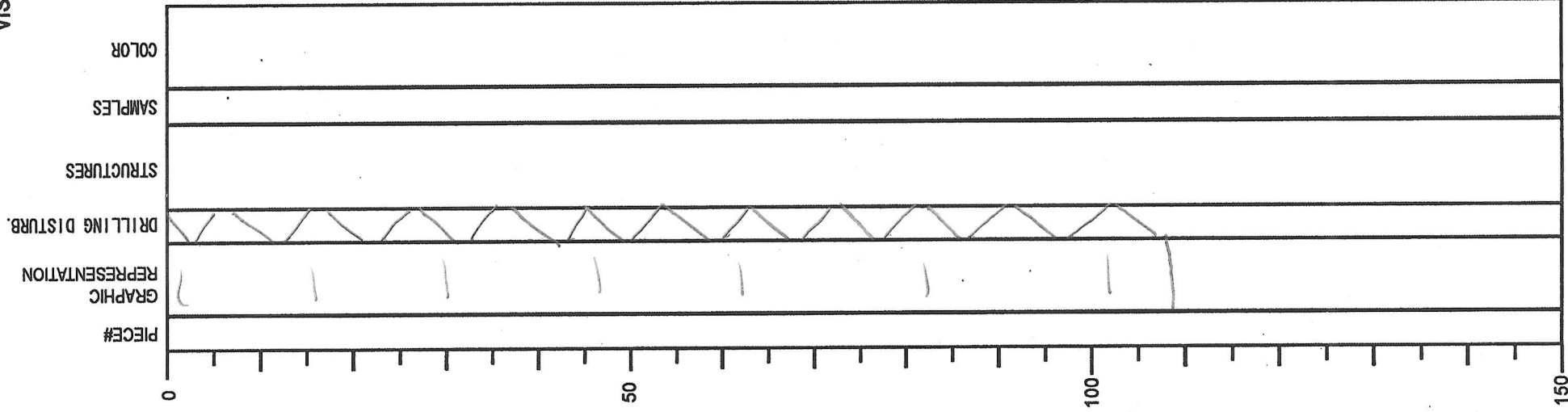
76cm small white spots  
(~ 2mm across)

Section 7: IW

INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 12/23/2007  
EXP: 316  
SITE/HOLE: C0004C  
CORE: 15X  
SECTION: 8  
OBSERVER: CLF

Same as Section 6.



INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

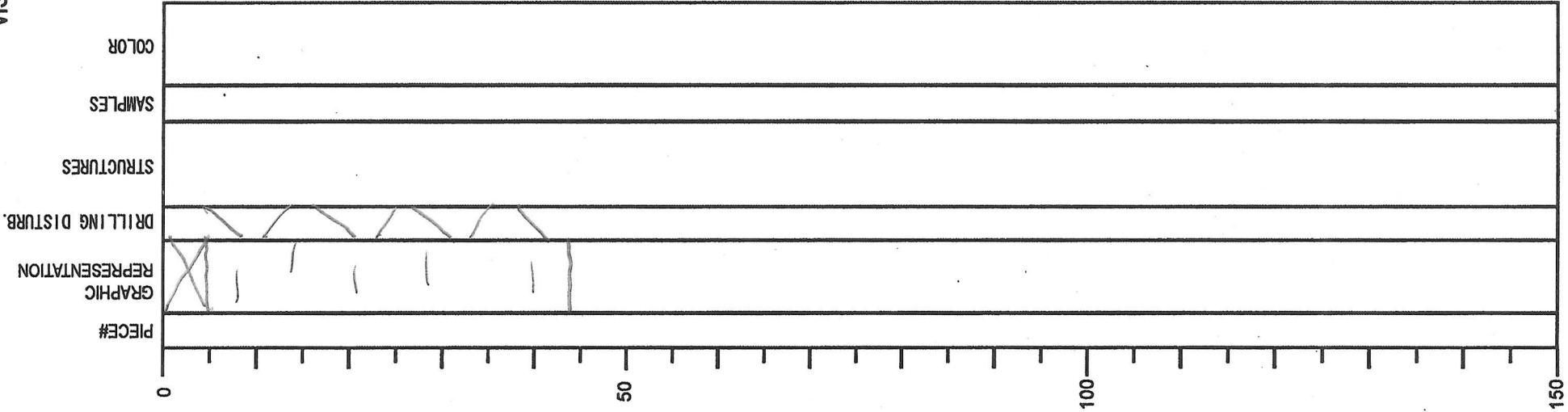
NO. \_\_\_\_\_  
 DATE: 12/23/2007  
 EXP: 316  
 SITE/HOLE: C0009C  
 CORE: 15X  
 SECTION: CC  
 OBSERVER: CUF

SECTION DESCRIPTION

PAL

see Section 6

Biscuits becoming more  
obvious



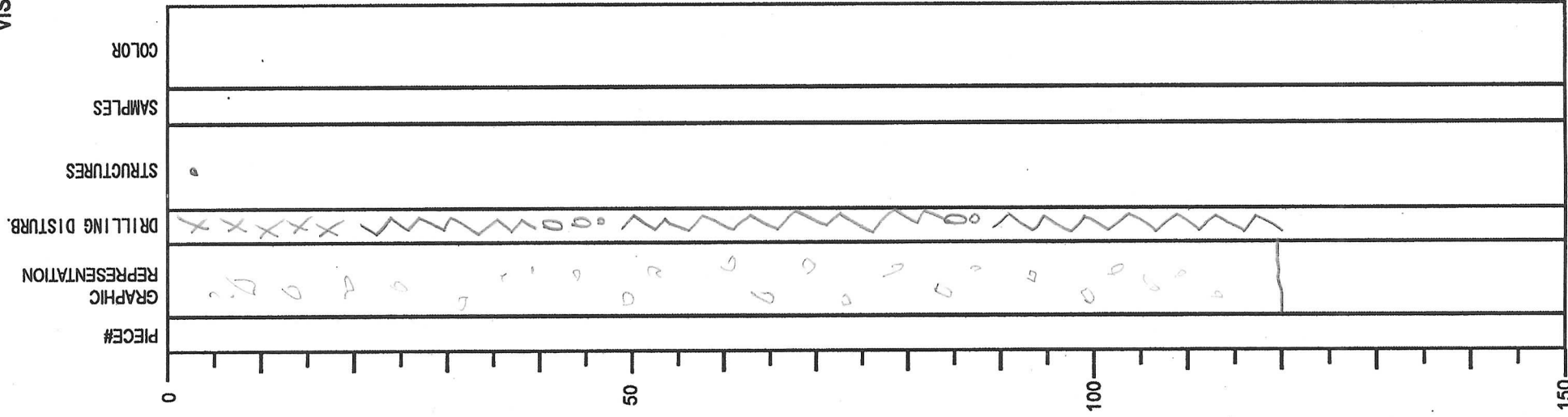
**INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION**

NO. \_\_\_\_\_  
 DATE: 23 / 12 / 20 07  
 EXP: 316  
 SITE/HOLE: C 0004c  
 CORE: 16H  
 SECTION: 1  
 OBSERVER: UN

SECTION DESCRIPTION

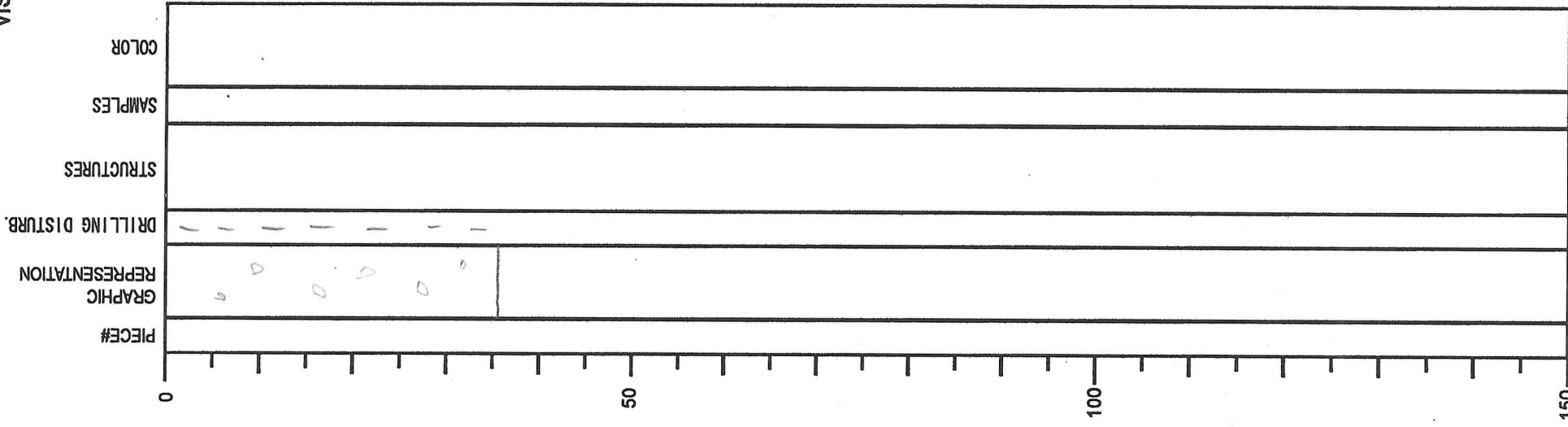
*- sand (lock)  
 - sand (beam)  
 dark greenish-grey silty claystone breccia (?)  
 - matrix supported*

*50-100 cm zone could possibly be washed out  
 sand?*



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. DATE: 23 / 12 / 20 07  
 EXP: 316 SITE/HOLE: C004C  
 CORE: 16H SECTION: 2  
 OBSERVER: UN



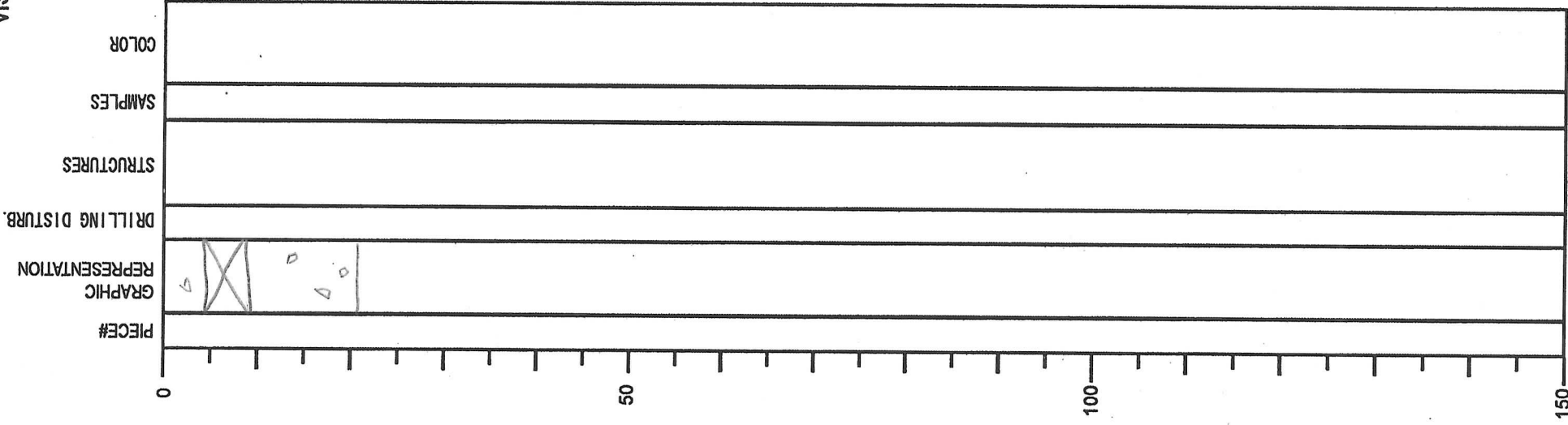
SECTION DESCRIPTION

dark grey silty clay  
 greenish grey silty clay  
 breccia



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 23 / 12 / 2007  
EXP: 3/6  
SITE/HOLE: C0004C  
CORE: 16H  
SECTION: CC  
OBSERVER: \_\_\_\_\_



SECTION DESCRIPTION

*dark greenish silty clay breccia*

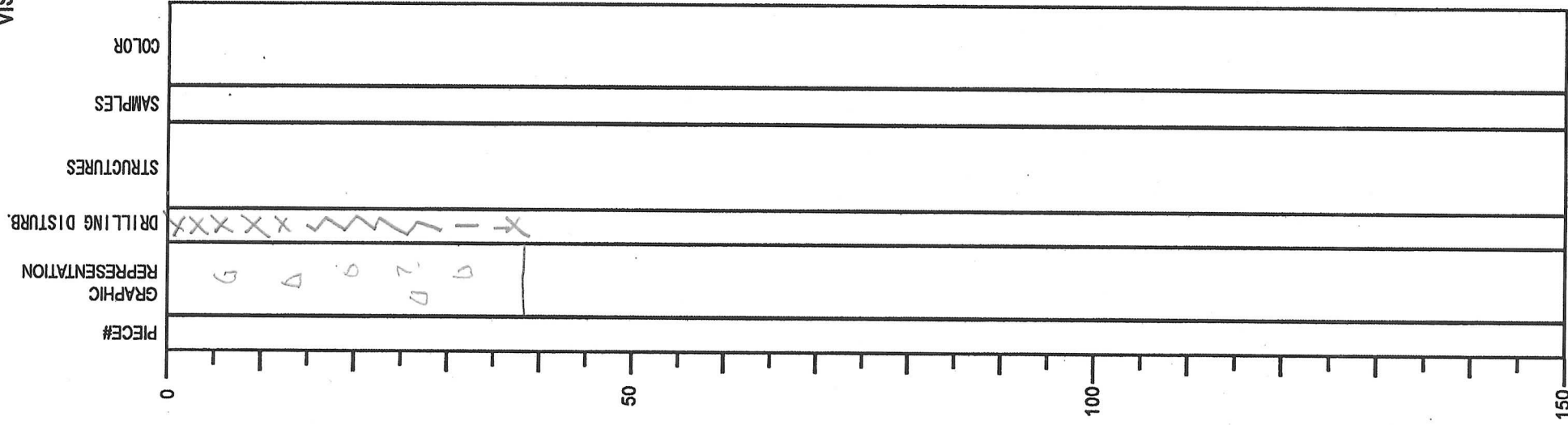
# INTEGRATED OCEAN DRILLIGN PROGRAM

## VISUAL CORE DESCRIPTION

NO.   
 DATE: 23 / 12 / 2007   
 EXP: 3/6   
 SITE/HOLE: C 0007c   
 CORE: 17K   
 SECTION: 1   
 OBSERVER: UN

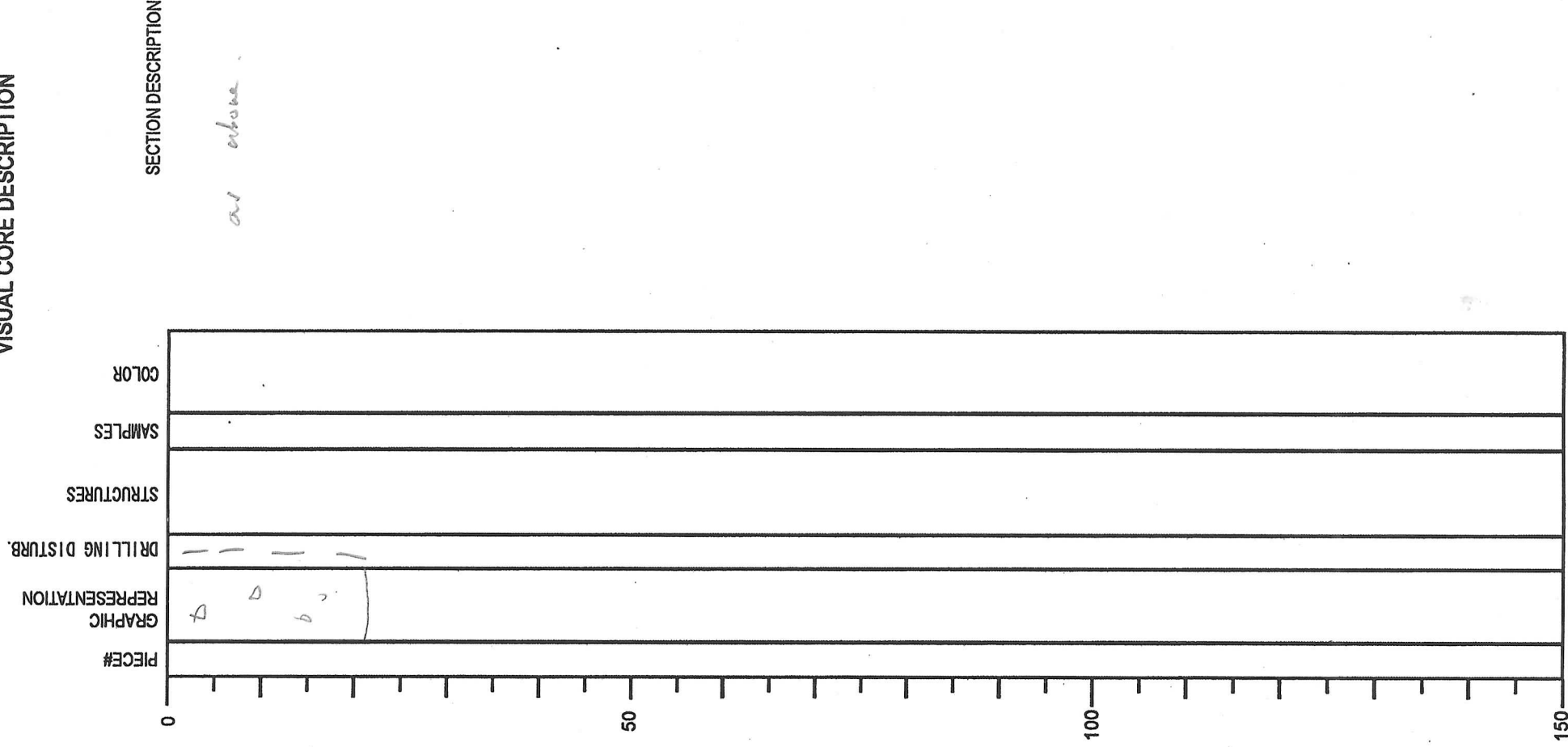
### SECTION DESCRIPTION

*dark greenish gray silty clayton, ~~fine~~ different to fell if originally a breccia due to drilling disturbance*



INTEGRATED OCEAN DRILLIGN PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 1 / 20  
EXP: 316  
SITE/HOLE: C coast  
CORE: 17H  
SECTION: CC  
OBSERVER: VN

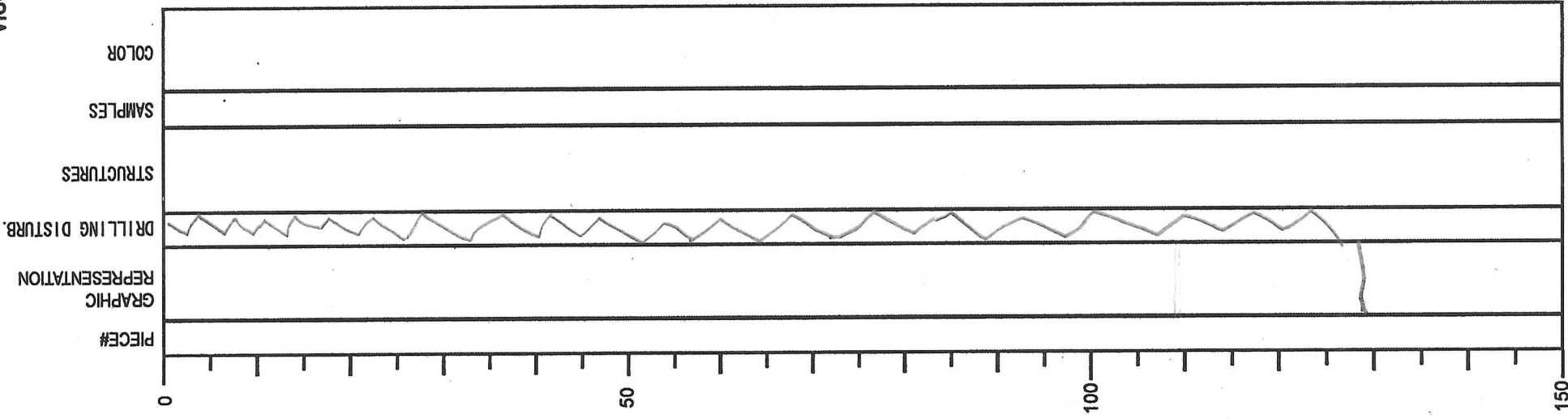


INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 23 / 12 / 2007  
EXP: 3/6  
SITE/HOLE: C0004C  
CORE: 18M  
SECTION: 1  
OBSERVER: UN

SECTION DESCRIPTION

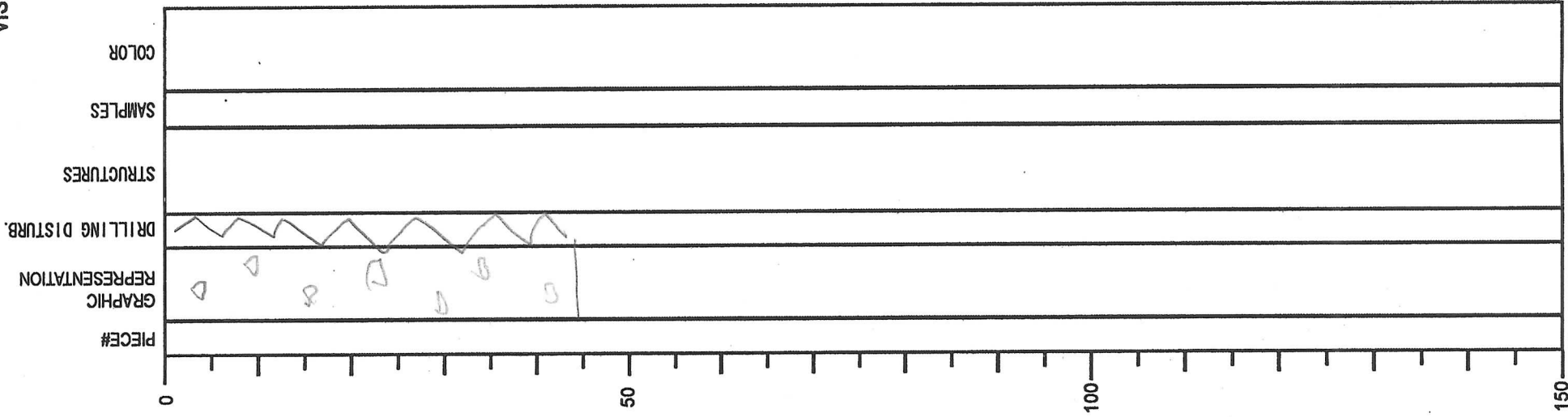
dark greenish grey mudstone, poor condition  
- difficult to tell structures due to  
drilling disturbance.



thin light grey band.

INTEGRATED OCEAN DRILLING PROGRAM  
VISUAL CORE DESCRIPTION

NO. \_\_\_\_\_  
DATE: 1 / 20  
EXP: 216  
SITE/HOLE: C 6007C  
CORE: 15H  
SECTION: CC  
OBSERVER: RM



SECTION DESCRIPTION

at above

END OF HOLE C