

UNIT 1

TOP CONTACT NOT RECOVERED

TO TR-3 57cm

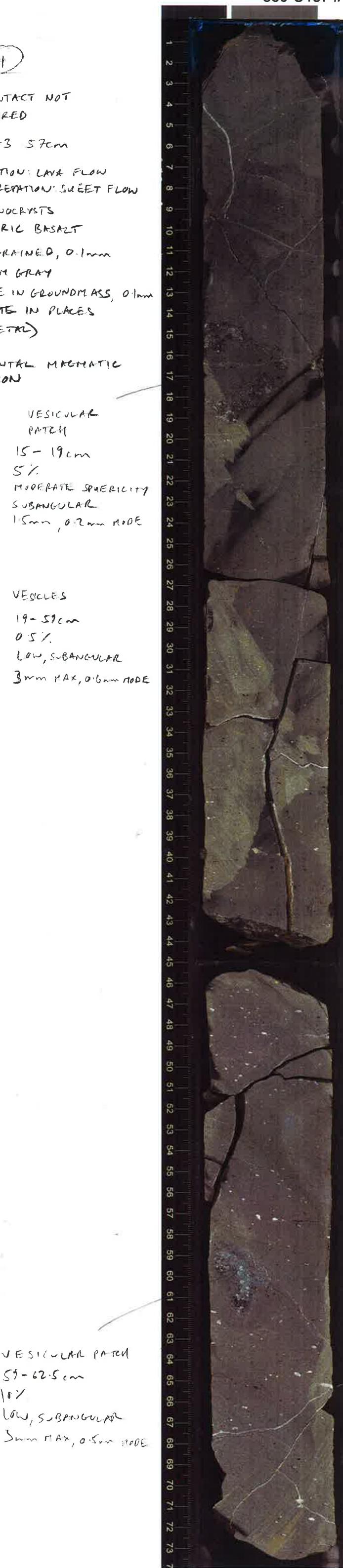
DESCRIPTION: LAVA FLOW
INTERPRETATION: SWEET FLOW

NO PHENOCRYSTS

DAPHYRIC BASALT

FINE-GRAINED, 0.1mm
MEDIUM GRAYOLIVINE IN GROUNDMASS, 0.1mm
ELONGATE IN PLACES
(SKELETAL)

HORIZONTAL MAGMATIC FOLIATION

VESICULAR PATCH
15-19cm
5%
MODERATE SPHERICITY
SUBANGULAR
1.5mm, 0.2mm MODEVESICLES
19-59cm
0.5%
LOW, SUBANGULAR
3mm MAX, 0.6mm MODEVESICULAR PATCH
59-62.5cm
10%
LOW, SUBANGULAR
3mm MAX, 0.5mm MODEVESICLES
0-15cm
0.5%
LOW SPHERICITY
SUBANGULAR
1mm MAX, 0.6mm MODE4-16.5cm
vein network branch
Max 1.5mm
avg 0.5mm
n=7
0-14cm
magmatic foliation
90-185°6.5cm
vein 0.5mm
80-355
straight
19.5cm-20cm vein
single straight 80-35522.5-35cm
vein 1mm
straight 85-28526.5-27.5cm
conjugate vein 0.1mm
80-19030.5cm conjugate vein 0.1mm
85-20533.5
conjugate vein
1mm 35-180°35-43cm
vein 1mm
90-260°45.5-46.5cm vein 0.1mm
80-21246-59cm
magmatic foliation
85-190
49-52cm vein 0.1mm
branched 80-360
51.5-56.5cm vein 0.1mm
90-29059-64cm
vein 0.5mm 75-225°
85-164°vein 1mm curved 65.5-67.5
85-164°65-72cm vein 1mm wide
straight 75-310°JESICLES
62.5-80
0.5%
LOW, SUBANGULAR
3mm, 0.6mm
69-72cm vein 1-2mm
90-220°74.5-75cm vein 4mm
50-70°UNIT 4
PIECE 1a-7
76-79cm vein irregular
0.5mm 50-724°VESICULAR PATCH
80-85cm
15%
MODERATE, SUBROUND
5mm MAX, 0.5mm MODE86-91cm vein 3mm
straight 80-70°87-91cm vein network thin irregular
92-96.5cm conjugate vein 0.5mm
75-125VESICLES
85-78.2 24cm
10%
ELONGATE, SUBROUND
16mm, 2mm102.5cm vein 0.1mm
105cm vein 0.5mm
→ rotated106.5-110cm vein network branch
n=5 1mm wide109.5-114cm vein 0.5mm straight
85-730°117.5-120cm vein 0.5mm straight
n=2 branched 75-525°124-131cm vein 1mm
no straight measure MB16

133-135cm vein n=2 1mm 80-160

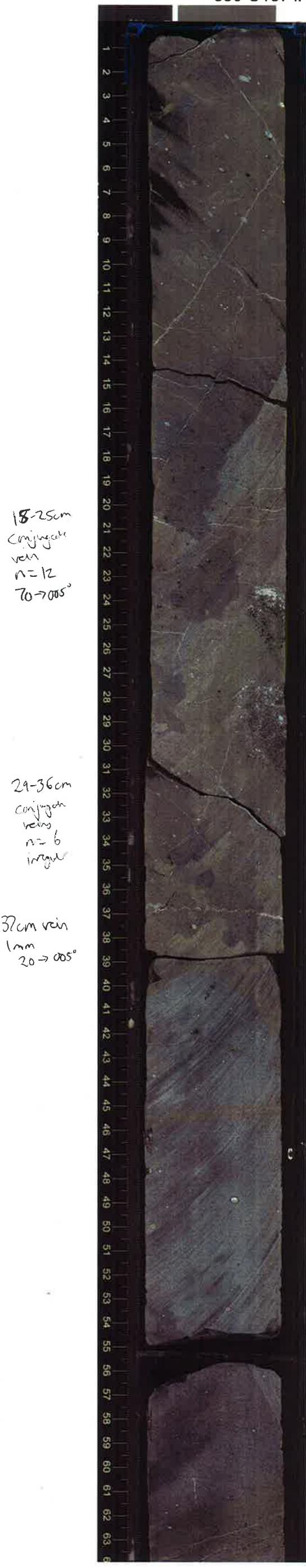
137-143cm vein 0.5mm 50-710

141-144cm vein network max 1mm
80-705 avg 0.5mm

330-U1374A-7R-2-A_SHLF2742881_20110107192812

UNIT ④

PIECE 1a - 3e



— GREEN ALTERATION
MINERAL (very soft)

330-U1374A-7R-3-A_SHL 42911_20110107215617

UNIT 4



J-38cm
magmatic foliation
85-010°

6 cm vein 0.1 mm
straight $90 \rightarrow 005^\circ$

16-17 cm rain 0.5 mm
75-70 12° straight

20.5-34 cm
var 2 mm
 $\Theta = 298^\circ$

27.5-30 cm
Conjugate vein 0.1 mm
85-7035

33.5 cm max l.m.
Conjugate with any 0.5
 $40 \rightarrow 35^\circ$

42-57 cm
vein 10 mm
Shallow dir
irregular

yellowish
micrite
surround clast
and partly filled
the inter-grain spaces

← Geopetal] Not completely closed at base

61 cm geopelt 180°

UNDER CONTACT
BASE OF FLOW ABOVE.
LOWER CONTACT
MATRIX BECOMES SANDY
IN BOTTOM OF PIECE 2

UNIT (5) is
debris shed from
flow (UNIT 4)

Geopetal 180°
TOP OF UNIT ⑥

very dark brown
coarse sand size
LITHIC - VITRIFIC
VOLCANIC SAND
calcite centred

CLAST OF
UNIT (4)
MINGLED
WITH SAND AT
TOP OF (6)

70% bent
sand
25% pelagonite
sand
5% carbonate
cement.
Some bioclasts

dark yellowish brown
very coarse ss
subangular
carbonated cemented

Dongtial (upto 2m)
algae (upto 2m)

RIVALE (Up to 7mm)
GASTROPOD (2-4mm)
FRAGMENTS

bedding
0-18cm
85→1010

bedding
20-34cm
85→168°

biostasis rock

35-43cm
bedding
80→194°
biostasis rock

50 mm
rounded pebble
of basalt

BASE OF
UNIT 6

TOP OF
UNIT 7

dark reddish brown, subangular
(gravel to medium sand size)

BEDDED

LITHIC - VITRIC
SANDSTONE

No BLOCKS
cavate reworked

← Ø gas vesicle
Ø 3mm

56-75cm bedding
75→030

Ø 4mm

well bedded

bedding 77-86.5cm
80→150

Ø 4mm

88-100.5cm
bedding
80→160°

Ø 3mm

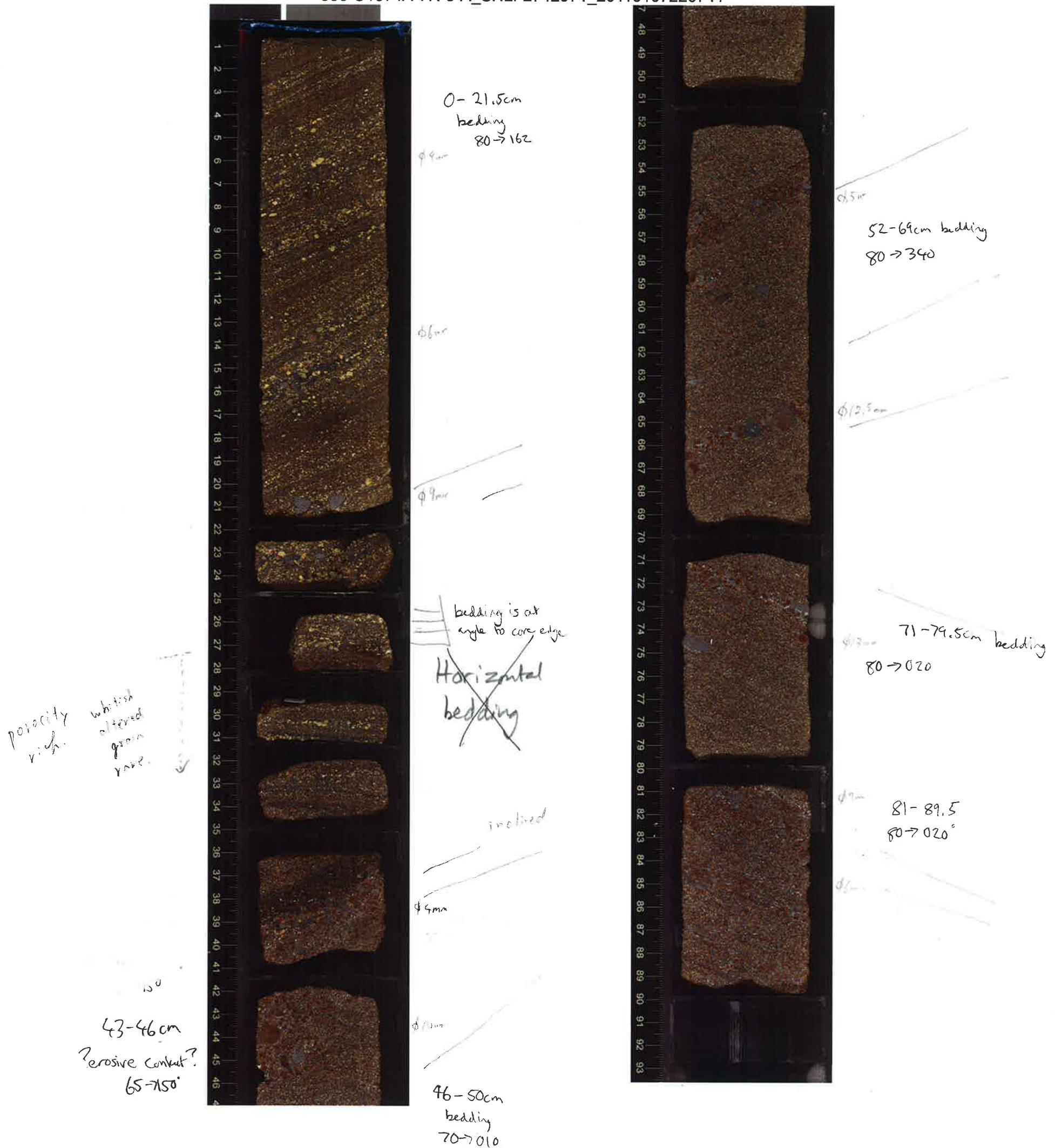
102-116.5cm bedding
80→160°

Ø 5.5mm

118-132cm
bedding
80→160°

Ø 8mm

330-U1374A-7R-5-A_SHLF2742971_20110107220741



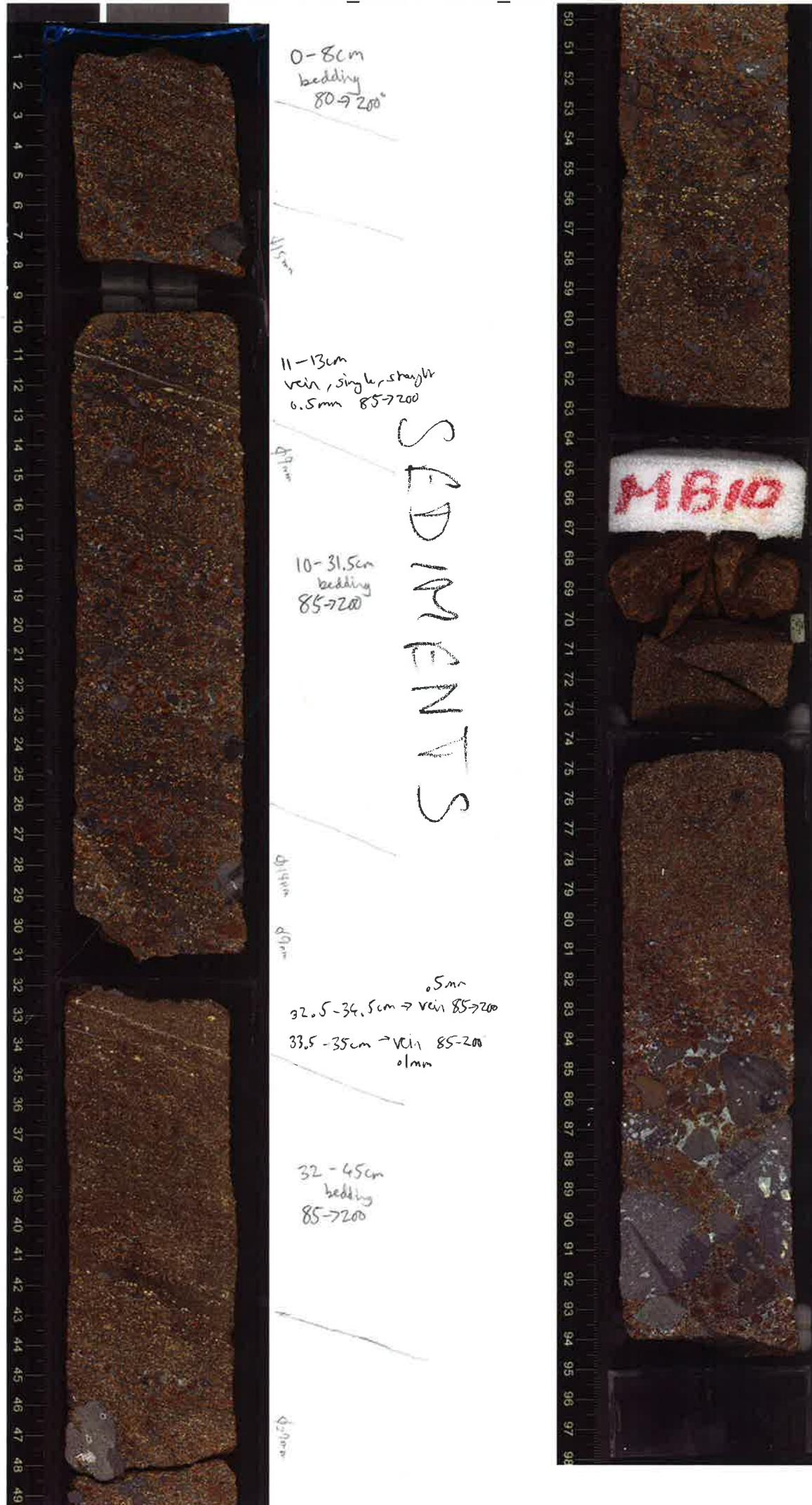
330-U1374A-8R-1-A_SHLF2744201_20110108012213

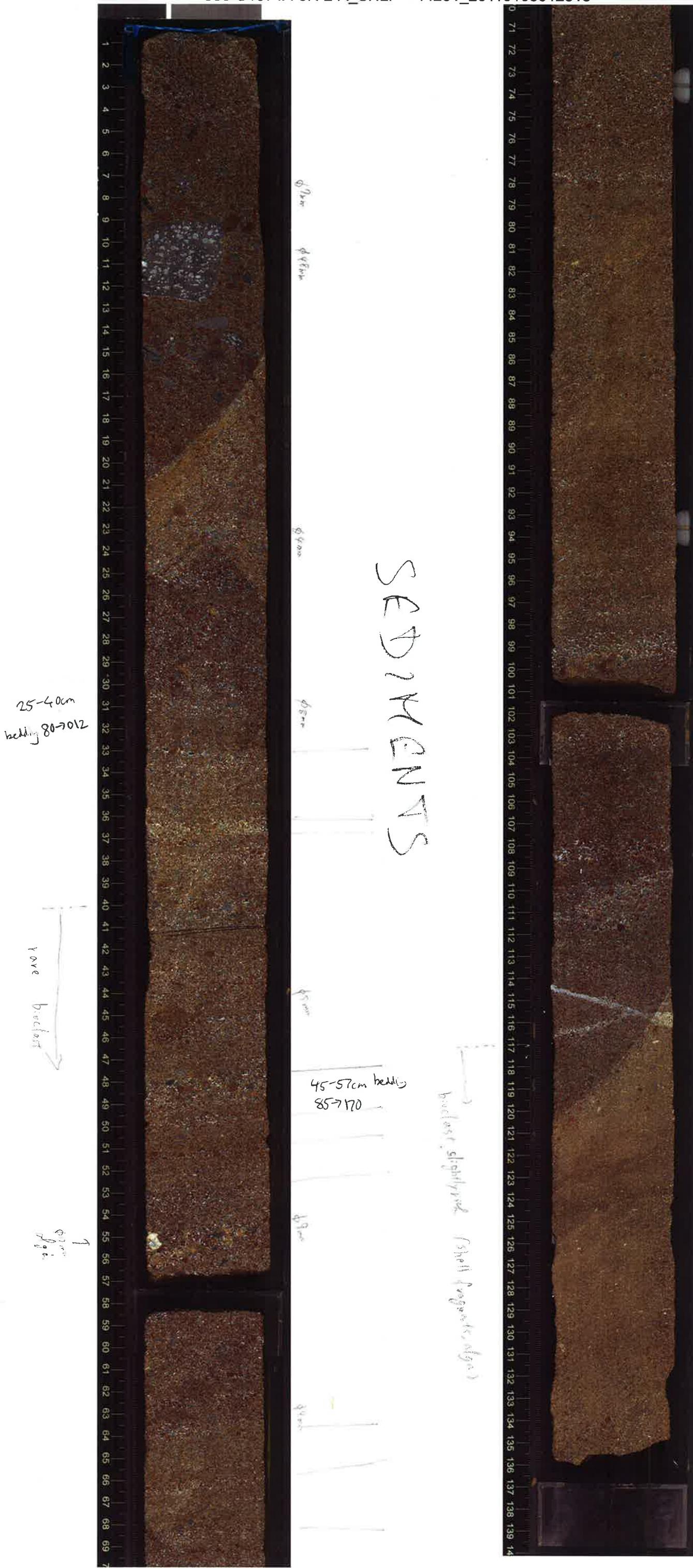
UNIT (?)
(continued)

Lithic-Vitric
Volcanic sand

(Aphyric basalt sand)

reddish brown





330-U1374A-8R-3-A_SHLF2744261_20110108013656

UNIT 8

UNIT 7

UNIT 8

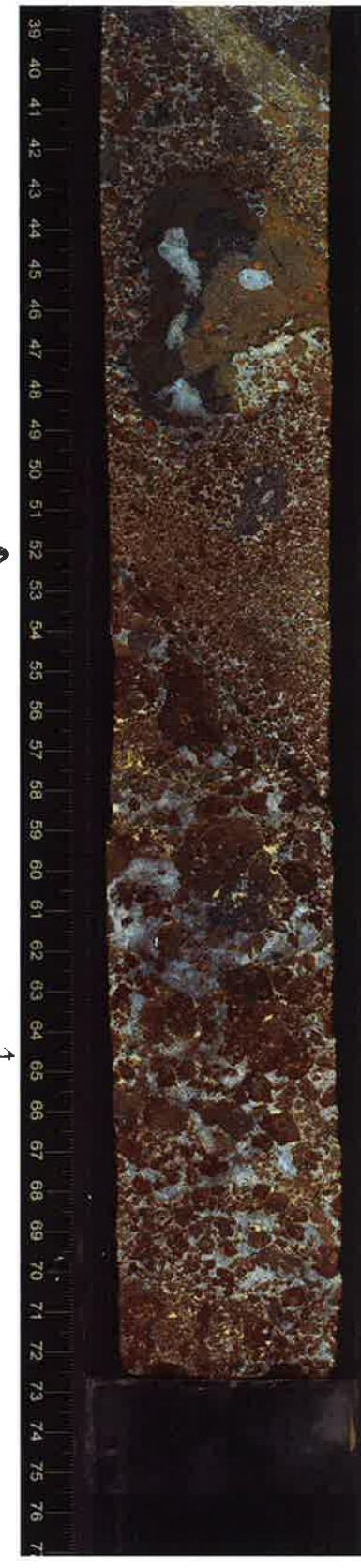
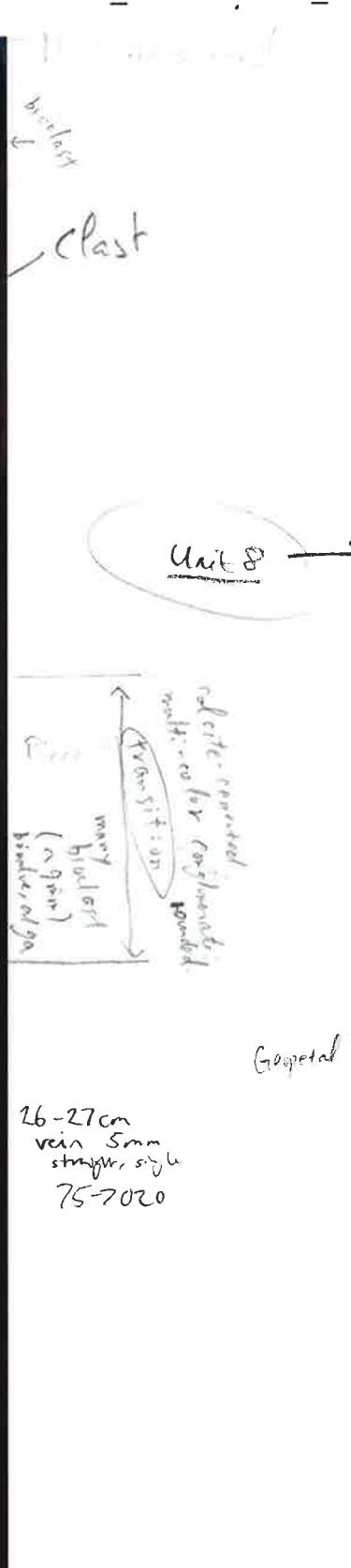
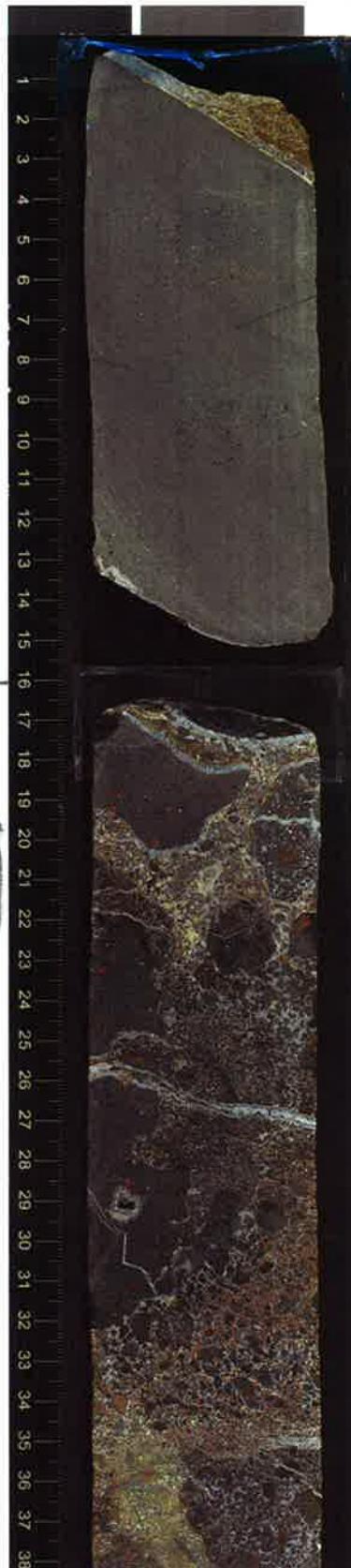
Volcanic breccia

Sparingly olivine-phric
bedded

3% olivine (abundant)

Fine grained

Gneissed
 182°



45cm gneissed 180°

calcite cemented

yellowish micrite
fill some space

330-U1374A-9R-1-A_SHLF2744651_20110108071441

UNIT (8)

(continued)

moderately
ol - phryic
basalt breccia

max. clast
size >120 mm

calcite cemented
/ voids.



330-U1374A-9R-2-A_SHLF2744681_20110108073818



330-U1374A-9R-3-A_SHLF2744711_20110108082618



330-U1374A-9R-4-A_SHLF2744741_20110108074528



Carbonate
+ Neopile
cement

Voidr filled
with yellow
clay in this
interval.
after cement!

330-U1374A-9R-5-A_SHLF2744771_20110108075223



330-U1374A-10R-1-A_SHLF2745111_20110108122752

UNIT 8

CONTINUED

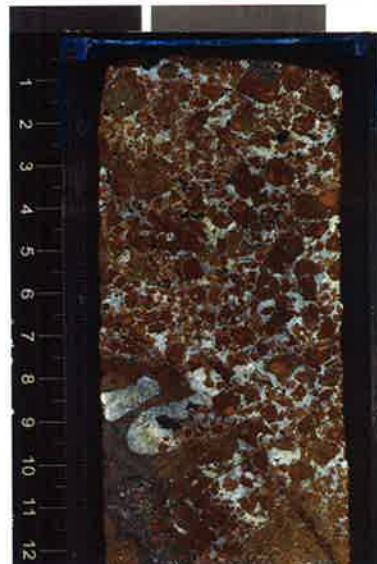
PIECE 1

► MODERATELY OLIVINE-
PYRRHIC BASALT BRECCIA

OLIVINE 5%.

4mm, 2mm
EUDIOPHAL
COMPLETELY
ALTERED

DESCRIPTION: VOLCANIC
BRECCIA



INTERPRETATION:

VOLCANICLASTIC

ORANGE-GRAY
FINE-GRAINED, 0.1mm
FELDSPAR LATTS IN GROUNDMASS
COMPLETELY ALTERED RIMS
TO CLASTS (ALTERED GLASS)

VOLCANIC ATTRIBUTES:

75% CLASTS v MATRIX
8mm MODE
LOW SPHERECITY
ANGULAR
POORLY SORTED
LARGER FRAGMENTS (>50mm) MORE
ROUNDED WITH ALTERED MARGINS (GLASS?)
~ PILLOWS?

15cm
15.5 - 15.5 - 18.5
CLAST VESICULARITY
TYPE 1
18.5

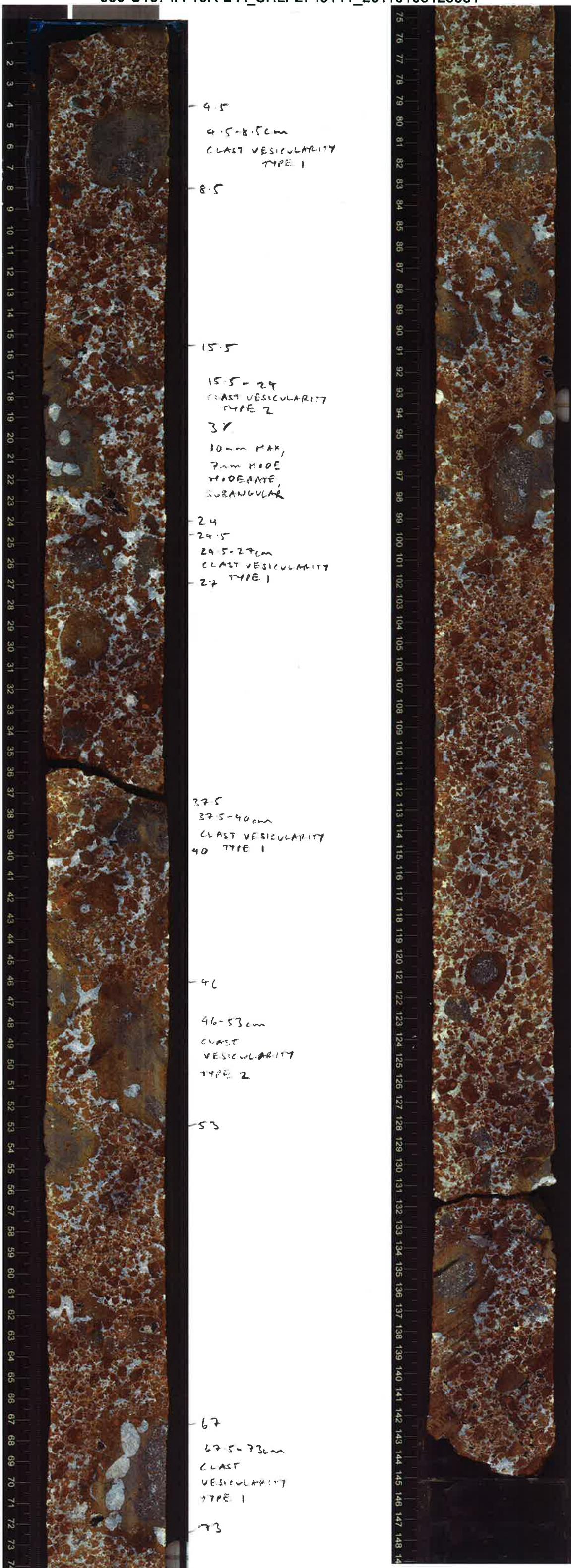
Highly altered
matrix of vesicular
clasts & glass
(Pyrrhite + Olivine)

Clasts in
vesicular matrix
with some
voids

UNIT 8

CONTINUED

1a - 1c



UNIT 8
CONTINUED
PIECE 1 - 116

