

Unit (88)
(Continued)



12-13 cm bedding (?)
80-170°

29-32 cm vein 0.2mm
straight (rounded pieces)

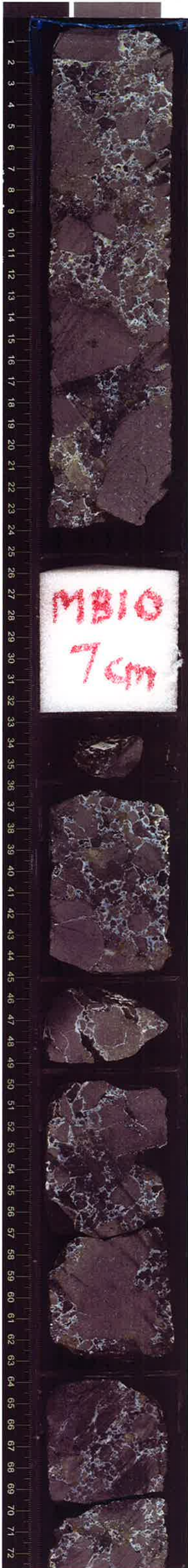
37-39 cm vein network n=7
0.5-1mm irregular, branch



85-90 cm vein 0.2mm in clast
n=2

99-104 cm vein n=3 branching 1mm
irregular

Unit 88
(Continued)



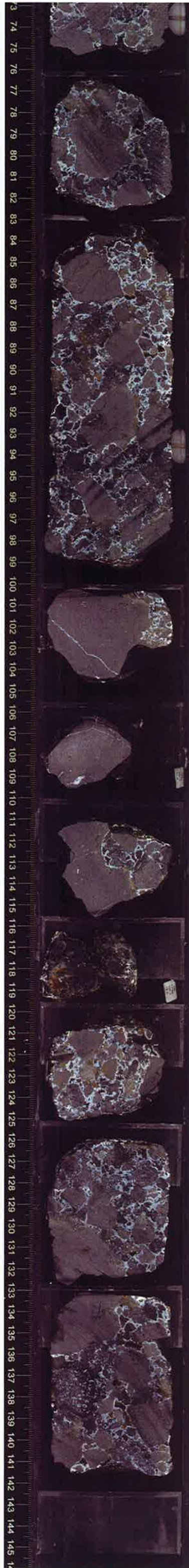
14-17cm vein 0.1mm curved

20-29cm vein 0.1mm curved

MBIO
7cm

42-42.5cm vein 1mm straight in clast

50-53cm vein n=3
1-2mm irregular



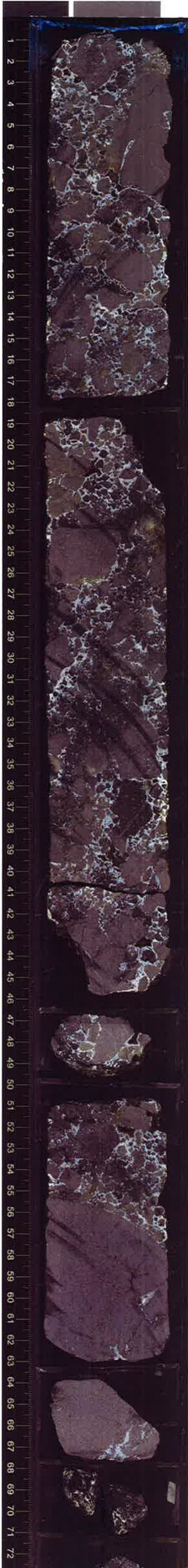
102-104.5cm vein 1mm straight in rotated piece

107cm vein branched 0.5mm

113cm vein 0.1mm branched in rotated piece

115cm vein 0.2mm straight

Un. (88)
(Continued)

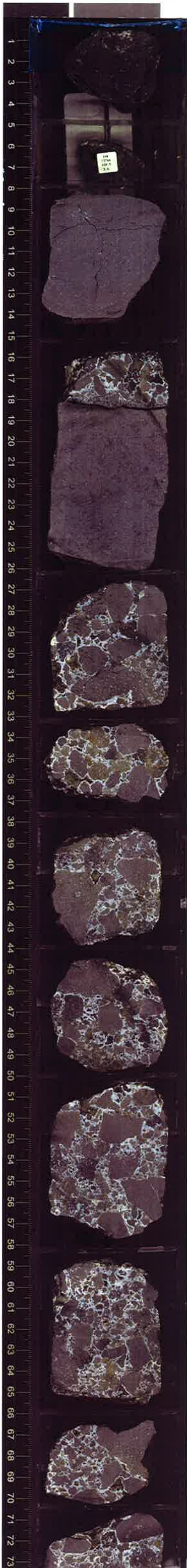


SP-63cm vein 0.2mm
imgur

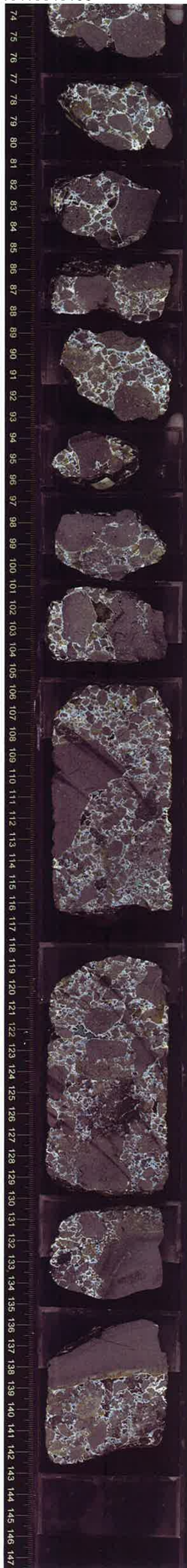


109-113cm vein 0.2mm
straight (in clear)

Un' (88)
(Continues)



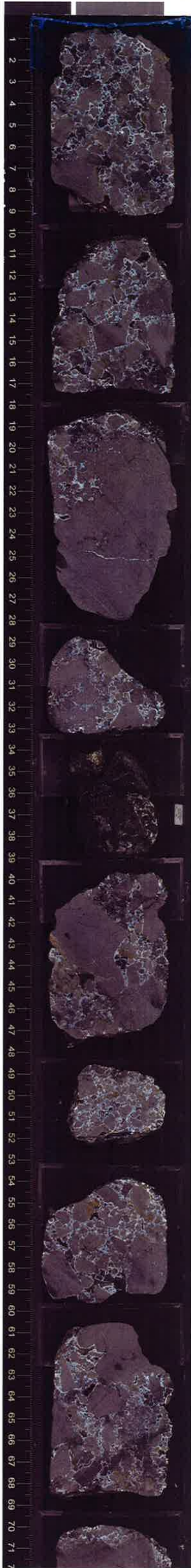
8.5-14cm
vein n=3
0.1mm
irregul



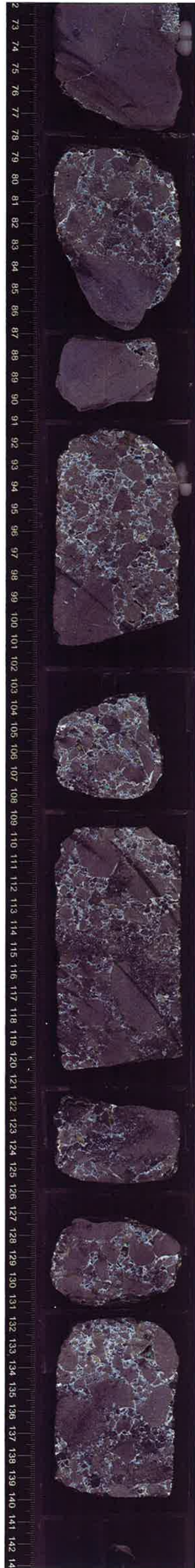
97.5-99cm vein 0.2mm curvul

101-109cm vein 1mm irregul

Um. (88)
(Continued)



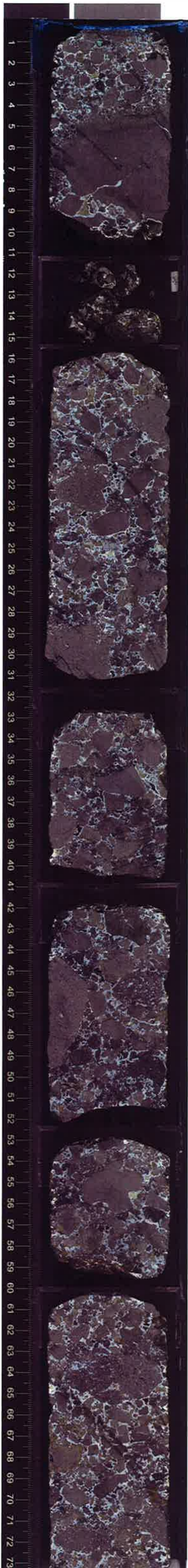
25cm vein 1mm stage
in clast



71-77cm vein net
n=6 0.2mm irreg

99-101cm vein
0.1mm n=2

Unit (88)
(Continued)



5-9cm vein 0.5-1mm
in clst

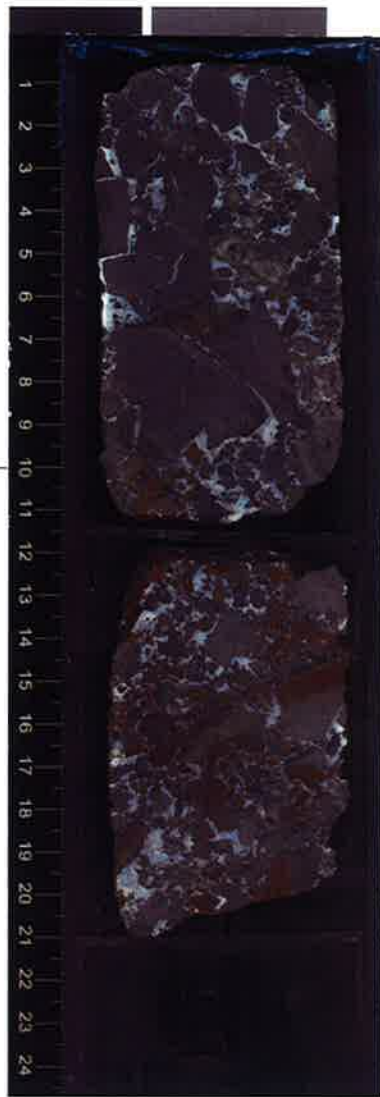


87.5-89cm vein 0.5-1mm
irregul

129-130cm vein 0.5-1mm
irregul

134-143cm
vein 1-3mm
irregul

Unit (88)
(Continued)



Unit (89)

Volcanic breccia
Similar to Unit 88
but pervasively
altered.

10 mm modal
low sphericity, angular
poorly sorted

80% clasts and basalt sand
cemented with carbonate and
zeolite

Mottled orange - light brown - white

Some mixing with gray clasts from
Unit 88

Aphyric basalt

Unit (89)
(continued)

Volcanic breccia
pillow fragments?

low sphericity
angular
poorly sorted

mottled orange -
brown - white

? pillow fragments
up to 10 cm
interstitial basalt
sand and calcite/
zeolite cement

Clasts

aphyric basalt
medium brown
with some orange
altered rims

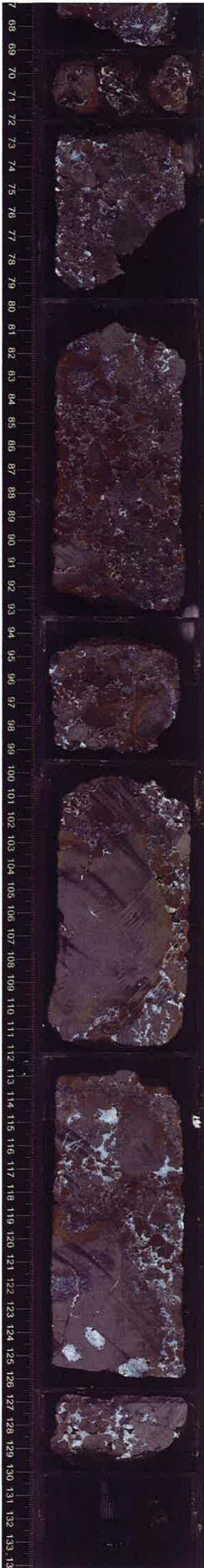
almost no phenocrysts

very rare
angite microphenos
& plag-ang
glomerocrysts
< 1 mm.



22-28 vein network
u: 10, max. diam
irreg., steep dip in
clast

51-54 vein irreg. in
clast



Larger clasts are
highly altered, some
w/ completely altered
rims. Some are broken
w/ only portions of
rims being present.
Smaller clasts are
completely altered.
These are in a
matrix of calcite
and fairly fresh,
black glassy sand.

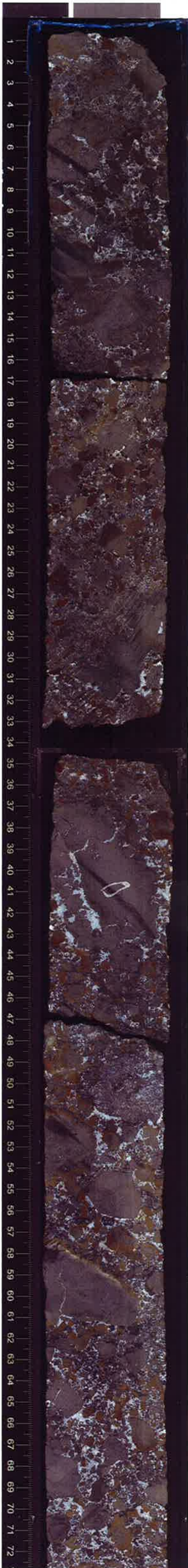
102-109
vein network irreg. in clast

small pillow?

119-124 vein network,
u: 5, irreg. in clast

Unit (89)
(Continued)

as section 1



38-42 vein
network, irregular in clast

57-60
vein network
irreg, in clast



74-78
vein network, irreg,
non-occluded

109-113
vein network, straight,
in clast

altered glassy
rims?

133-136
vein network
irregular, often occluded

Unit (89)
(Continues)
as section 1

radial fractures?



3-11
vein network, u-12
0.2mm irreg, in clast

43-45 vein network, irreg,
in clast

53-64
vein network, irreg.
in clast

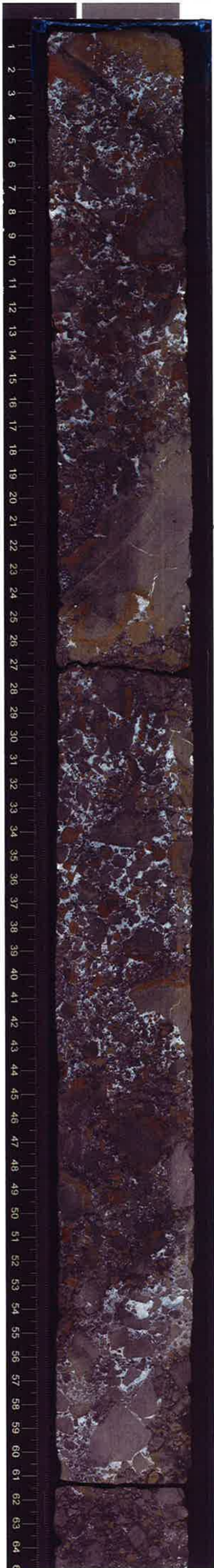


100-102 vein, d, irreg,
in clast

105-111
vein, d, straight, steep dip

Unit (89)
(Continued)

as section 1



19-25 vein network
u=10, irreg., ice clast

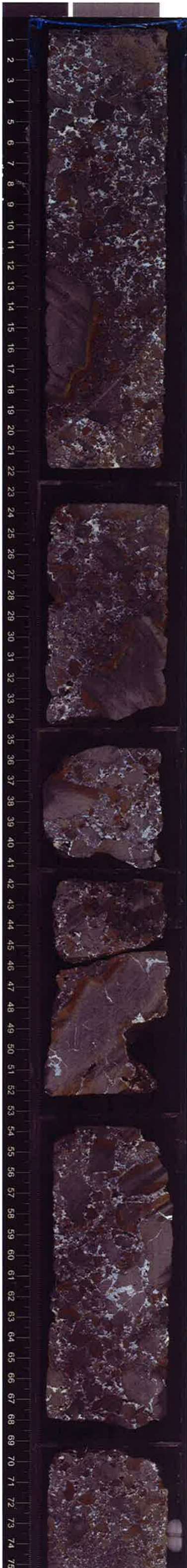


76-83
vein network, u=10
(irreg.) non-occluded

Unit 89

(Continued)

as for section



88-91
vein, irreg, isolated in clast

101-106
vein, branched, irregular

larger
pillow
fragments

108-115
vein network, n=12, irreg,
in clast

118-122
vein netw., irreg, non-
orient.

128-136
vein netw., n=16, irreg, in
clast

45-52
vein network, irreg,
in clast

Ums (89)
(Continued)

as section 1



28-33 vein network
irreg, in clast



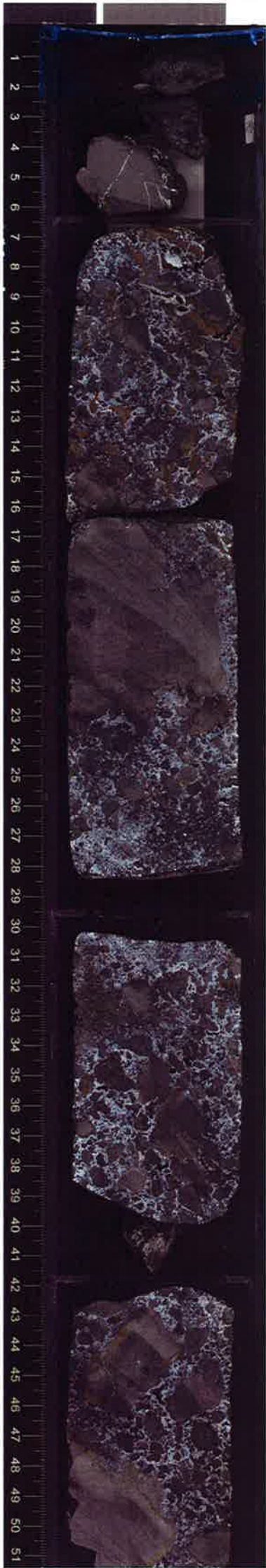
77-79
vein network, irreg, in
clast

90-95
vein netw, irreg, in clast

122-126
vein network, n=5

131-142 vein network
n=12, irreg. in clast

Unit (89)
(Continued)



U-6
vein network, irreg. in
clast.

Slightly
alt.
17-23 vein network,
irreg. in clast

70-75
vein
single,
branched
88-2099

77-82
vein network
U=12, branched
irreg., sub-
horiz

alteration
decreasing
↓



moderately
alt.

55-61
vein network, U=10, straight
in clast

68 cm

UNIT (90)

large
aphyric basalt

fragment
dark gray
aphanitic
aphyric

no phenocrysts
no vesicles

TSC 0

88 cm

UNIT (91)

Volcanic breccia
8mm nodal
low sphericity
angular
mottled dark gray
- white

clast:
aphyric basalt
no phenos.
aphanitic
no vesicles

UNIT (91) CONTD.

PIECE 1a - 1b

0-47 R3 5cm

VOLCANIC BRECCIA

PILLOW BRECCIA

NO PHENOCRYSTS

▷ AMPHYRIC BASALT BRECCIA

MOTTLED DARK GRAY WHITE WHITE

AMPHYRIC FINE-GRAINED

VOLCANIC ATTRIBUTES:

80%

LOW, SUBANGULAR

5mm

100% SORTED



2-4 vein cahn, h=6
irreg. in clast

VESICLES

0-47 R3 5cm

1%

LOW, SUBROUNDED

6mm, 0.2mm

VESICULAR CLASTS

5-20%

25-27 vein cahn.
u=8, irreg. in clast

Slightly
abraded

68-69 vein, straight,
in clast

celadonite



FRESH GLASS

80-85 vein cahn, h=6
irreg. in clast

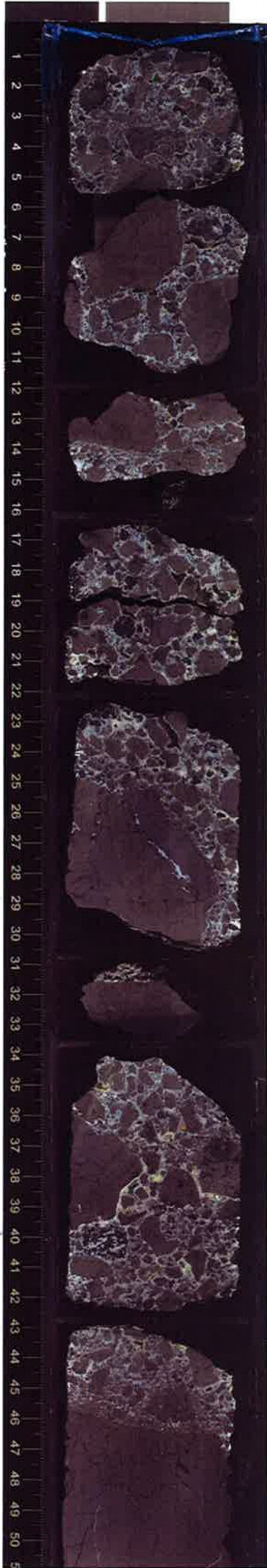
celadonite

FRESH GLASS

108-112
vein whisker, irreg. in clast

129-130
vein whisker,
irreg. in clast

UNIT (91)
PIECE 1a-16



slightly
abraded

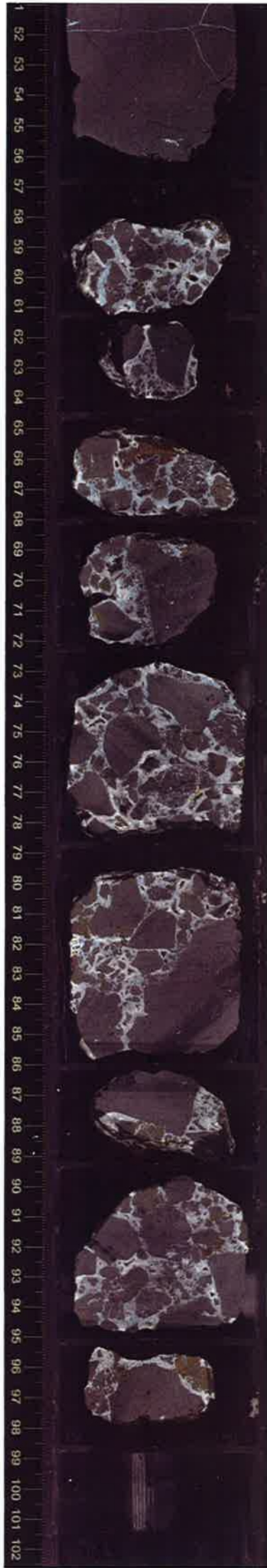
VESICULAR CLAST
20%

FRESH GLASS

25-30
vein network, n=16
straight, in clast

VESICULAR
CLASTS 5%

47-56
vein network, straight
main vein -> 270
but in clast



VOLCANIC CLASTS
20%

VESICULAR CLAST
10%

FRESH GLASS

83-84
vein, straight in clast

UNIT (91) CONTD
PIECE 1a - 1a

UNIT (92)
PIECE 1a - 2

TOP CONTACT: -
APPEARANCE OF SANDY
MATRIX

VOLCANIC BRECCIA
WITH SANDY MATRIX
↳ TRANSITIONAL
ZONE

3% PLAGIOCLASE
SUBHEDRAL FRESH
4.5mm, 1mm

1% PYROXENE
1.5mm, 1mm
SUBHEDRAL FRESH

1% OLIVINE
2mm, 1mm
SUBHEDRAL, COMPLETELY
ALTERED

▷ MODERATELY
PLAGIOCLASE -
PYROXENE - OLIVINE -
PHYRIC BASALT
BRECCIA

MOTTLED GREEN -
GRAY BROWN

FINE-GRAINED
VOLCANIC ATTRIBUTES:

90%
3mm
LOW, SUBANGULAR
VERY POOR

VESICULAR
CLAST
20%



VESICULAR
CLAST 10%

VESICULAR
CLAST
15%

VESICLES
5-88cm
0.5%
LOW, SUBROUNDED
9mm, 0.5mm
VESICULAR
CLASTS
10-20%

VESICLES
88cm - 97 R 8 143cm

0.5%
18mm, 0.1mm
LOW, SUBROUNDED

VESICULAR CLASTS
2-30%

VESICULAR
CLAST

20%

46-50 veta with
inorg. clast



VESICULAR
CLAST
10%

88cm
CHANGE IN CLAST
TYPE, SIZE AND ALTERATION
UNIT (93) PIECE 2
88cm - 47 R 8
143cm
VOLCANIC BRECCIA
FRAGMENTED PILLOW

PLAGIOCLASE
3%
4.5mm, 1mm
SUBHEDRAL, FRESH

PYROXENE
1%
3mm, 1mm
SUBHEDRAL, FRESH

OLIVINE
1%

3.5mm, 1.5mm
▷ MODERATELY
PLAGIOCLASE - PYROXENE
- OLIVINE - PHYRIC
BASALT

MOTTLED DARK GRAY
ORANGE GREEN
FINE-GRAINED
VOLCANIC ATTRIBUTES:
90%

5mm MODE
LOW, SUBANGULAR
POORLY SORTED