

UNIT 87

CONTD.

Piece 1 - 8b

VOLCANIC BRECCIA  
PILLOW BRECCIA

0 - 43 R 6 7.5cm

▷ SPARSELY OLIVINE-PHYRIC  
BASALT BRECCIA

1.5% OLIVINE  
SUBHEDRAL, PERVASIVELY  
ALTERED

9mm, 1mm

0.1% PYROXENE

2mm MAX, 1.5mm  
MODE

SUBHEDRAL, FRESH

0.4% PLAGIOCLASE  
SUBHEDRAL, FRESH  
1mm, 0.5mm

MOTTLED GRAY-WHITE  
WITH ORANGE SPECKS

FINE-GRAINED

VOLCANIC ATTRIBUTES:

SHARP CONTACT BETWEEN  
CLASTS AND MATRIX  
SEDIMENT TRIPS ON LARGE  
CLASTS

SOME CLASTS LOOK LIKE  
THEY HAVE FRACTURED  
ALONG RADIAL CRACKS  
↳ PIE SLICES

0 - 43 R 3 120cm  
70% CLAST/MATRIX  
LOW, SUBANGULAR  
10mm  
POORLY SORTED



111-117  
vein network, w/AS  
@veg. non-oriented

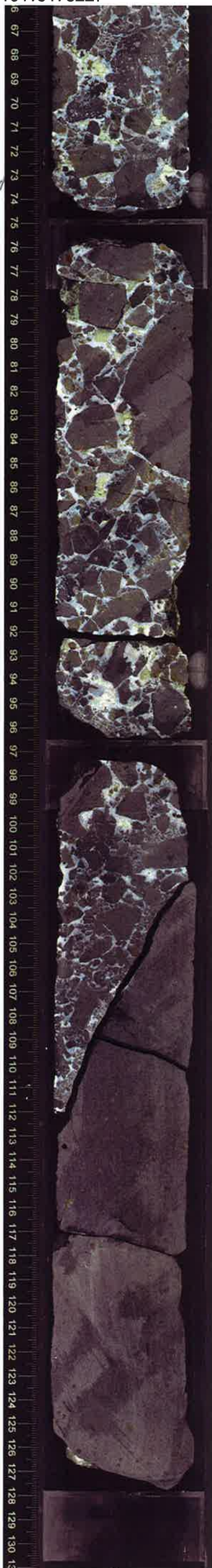
VESICLES  
0 - 43 R 6 7.5cm  
0.5%

MODERATE,  
ROUNDED

3mm MAX,  
1mm MODE

(VESICULAR  
CLASTS 5-20%)

VESICULAR  
CLAST  
10%



VESICULAR CLAST  
10%

109-110  
fracture, straight  
79 → 025°

112-117  
vein, straight, non-orth

117-117  
fracture, straight  
80 → 118°

116-117  
vein, 3mm, straight  
88 → 205°

UNIT 87  
CONTD  
PIECE 1-14



57 vein network  
irreg., non-oriented

20-26 vein network  
irreg., non-oriented

36-37 vein, irreg.,  
non-oriented

40-42  
vein network,  
irreg., nonoriented



99-104  
vein, straight, steep dip

MBIO

UNIT 89

CONTD.

PIECE 1-15

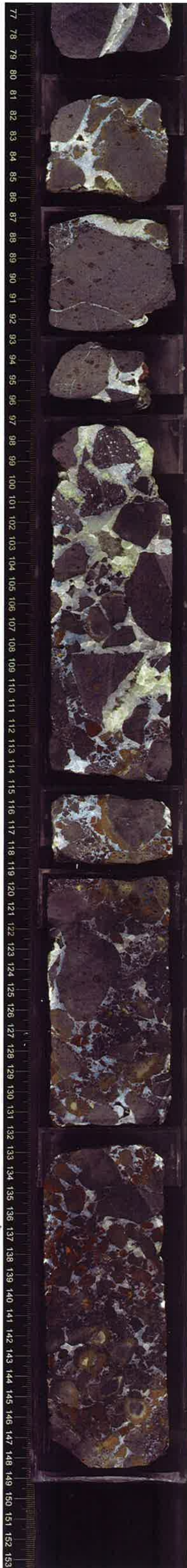


3-13 vein network  
w=6, network, straight  
non-oriented

29-32 vein network,  
straight, slope dip

55-61 vein network  
straight, non-oriented

69-77 vein network,  
img, non-oriented



91-91  
vein, w=1, irregular,  
non-oriented

VESICULAR  
CLAST 5%

VESICULAR  
CLAST 5%

120cm  
VOLCANIC ATTRIBUTES  
120cm - 43 R 4 71cm  
80% CLAST / MATRIX  
MODERATE, SUBANGULAR  
8mm  
POORLY SORTED

UNIT 87  
PIECE 1-7



Ob vein  
(long) con-oriented

VESICULAR  
CLAST 20%

VESICULAR  
CLAST 10%

VESICULAR  
CLAST 5%

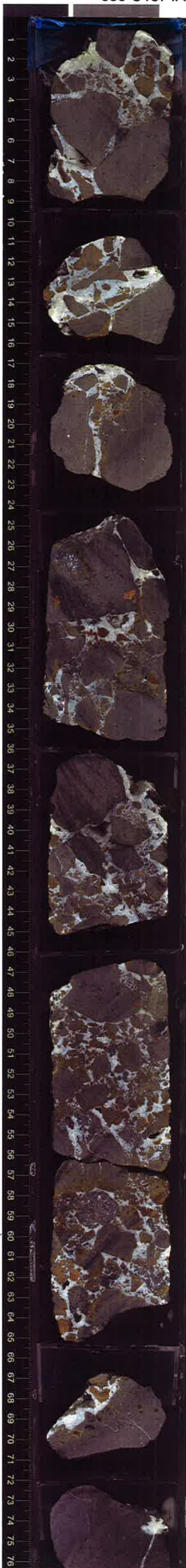
flow



VOLCANIC ATTRIBUTES  
71-101cm  
85% CLAST/MATRIX  
MODERATE, SUBROUNDED  
4mm  
VERY POORLY SORTED

101cm  
VOLCANIC ATTRIBUTES  
101-43 R4 7cm  
65% CLAST/MATRIX  
LOW, SUBANGULAR  
10mm  
POORLY SORTED

UNIT 1  
PIECE 1-12



VESICULAR  
CLASTS 5%.

68-71cm  
vein n=3 0.2mm irregul

VESICULAR  
CLASTS  
5%.



74-84cm vein n=2 branched  
skpy 0 1mm

84-85cm vein 0.2mm 85-125

85-90cm vein 1mm 30-120

UNIT 87

PIECE 1a

SHARP CONTACT BETWEEN BRECCIA AND BOULDER

UNIT 88

7.5cm

PIECE 1b-11

VOLCANIC BRECCIA

CHANGE IN PHENOCRYST POPULATION

PLAGIOCLASE

5%

SUBMEDIAL, FRESH

2mm, 1mm

PYROXENE

0.1%

SUBMEDIAL, FRESH

2mm, 0.5mm

OLIVINE

0.1%

4mm, 0.5mm

MODERATELY-PLAG.

PHYRIC BASALT BRECCIA

MOTTLED GRAY-GREEN WITH SPECKS OF WHITE

FINE-GRAINED

0.1mm

VOLCANIC ATTRIBUTES

80% CLAST/MATRIX

5mm MODE

LOW, SUBANGULAR

VERY POOR



OLIVINES

PIPE VESICLES

1% HIGHLY ELONGATE ROUNDED 22mm, 11mm

OLIVINE

VESICLES

18cm - 43 & 7 10cm

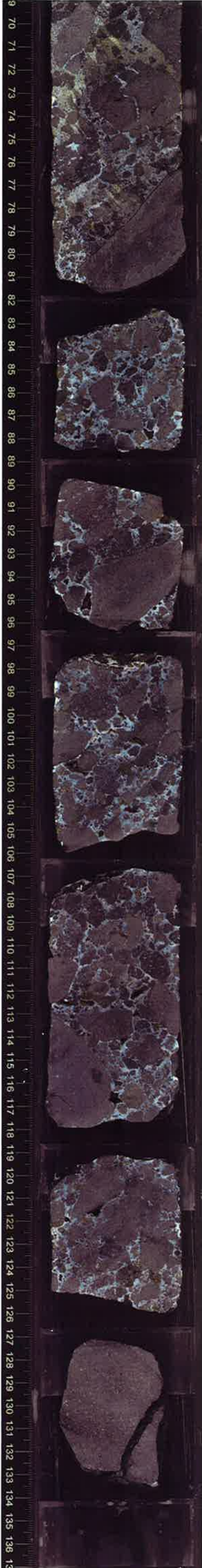
1% MODERATE, SUBROUNDED

OLIVINE 6mm, 1mm DISAPPEARS FROM PHENOCRYST ASSEMBLAGE

VESICULAR CLASTS 5-10%

VESICULAR CLAST 5%

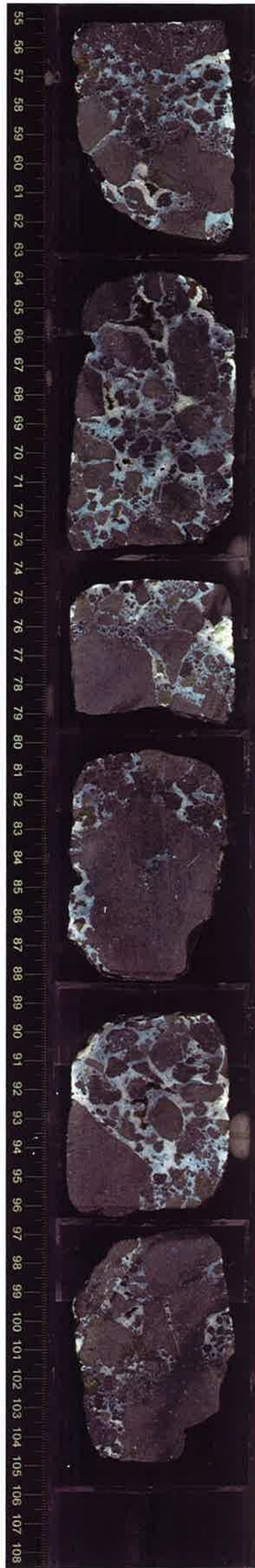
40-47cm vein 0.5mm straight n=1 70-245'



VESICULAR CLAST 5%

150-133cm vein 0.1mm. Straight? rotated piece

UNIT 88 CONTD  
PIECE 1-11



32.5-39cm run n=3  
0.1mm straight  
in cleat

VESICULAR  
CLAST 10%

UNIT (88)  
(Continued)

Volcanic  
breccia

pillow breccia?

nodal 5mm  
but blocks up  
to 20cm  
with sharply  
defined edges  
∴ broken.

Sparsely Plagioclase  
-Phyric basalt clasts

dark gray  
aphanitic.

1% plag

1mm max  
0.5mm nodal  
subhedral fresh

0.5% augite

0.5mm max  
0.2mm nodal  
subhedral fresh

Negligible olivine

fresh glass in  
places

80% basalt  
clasts

remainder  
basalt sand  
and carbonate  
cement

Description  
applies to all  
8 sections

7.5-9cm vein 0.2mm  
includ shaly





UNIT (88)  
(Continued)



4-6.5cm vein 2-1mm  
in clast

18-21cm vein 0.2mm  
curved in clast



Unit 88  
(Continued)

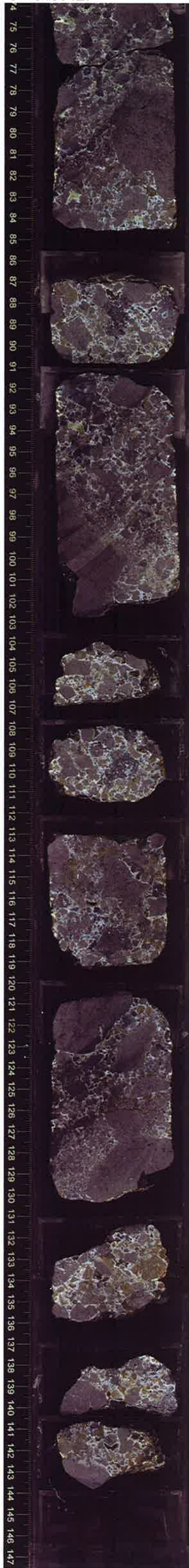
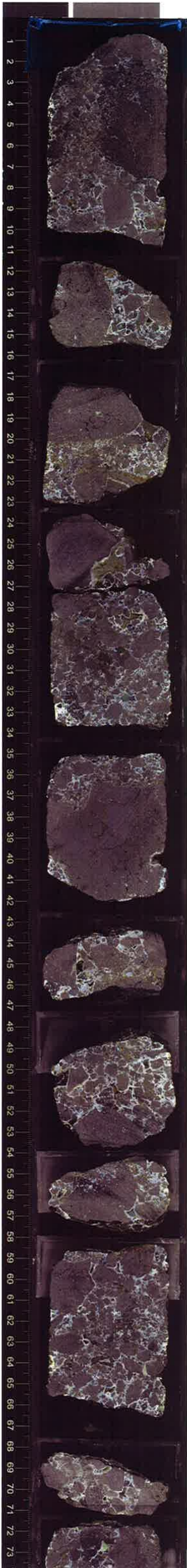


29-33cm vein 0.1mm curved

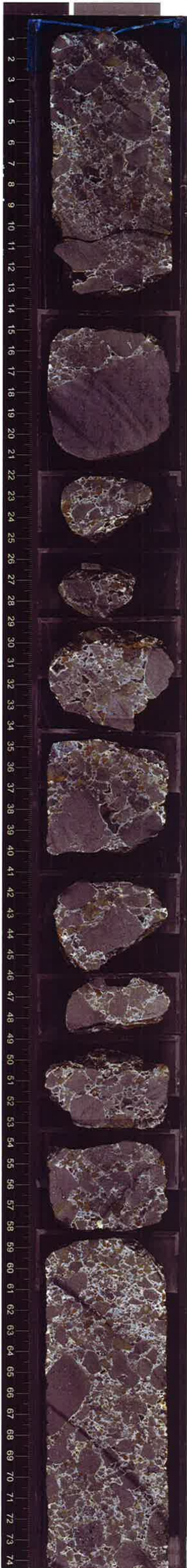
38.5-40cm vein 0.2mm



Unit (88)  
(Continued)



Unit (88)  
(Continued)



110-114cm vein network 0.1mm irregular

135-138cm vein branch + vein 0.5-1mm

Unit (88)  
(Continued)



6-8cm vein 1mm  
n=2 in clast



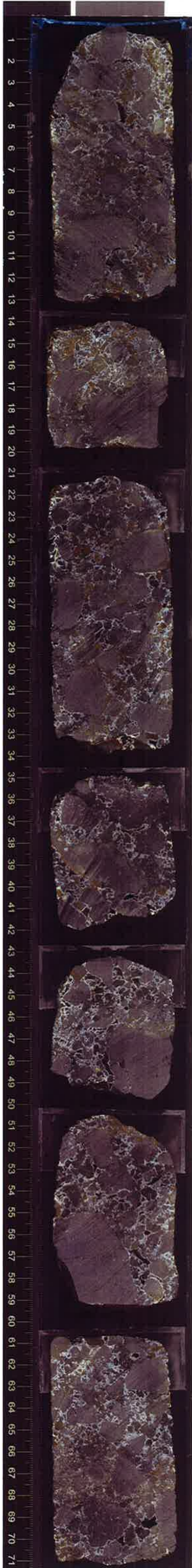
78-80cm vein n=2 0.1mm  
in clast

96-102cm vein network n=7  
0.2mm branch + recomb

104-107cm vein n=2 1mm  
irregular

140cm vein 0.1mm

Unit 88  
(Continued)



47-49cm vein 0.2  
branch

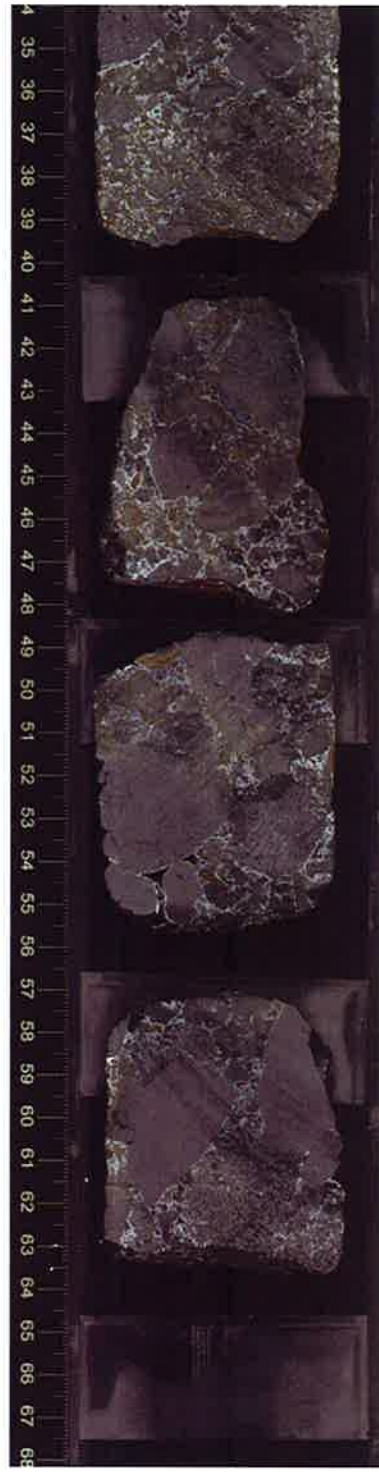


76-77cm vein 0.5mm branch

100-103.5cm vein Abite n=6  
0.5mm

Unit 88  
(Continued)

330-U1374A-44R-8-A\_SHLF2790281\_20110116010014



UNIT (88)  
(Continued)

Volcanic  
breccia

10 mm nodal

low sphericity  
angular

poorly sorted

80% volcanic

clasts and

sand cemented

with calcite  
and zeolite

Mottled yellowish  
gray and white

Clasts:  
aphanitic

Sparsely plag-  
phyric basalt

1% plag.

max. 2 mm

nodal 0.8 mm

subhedral  
fresh

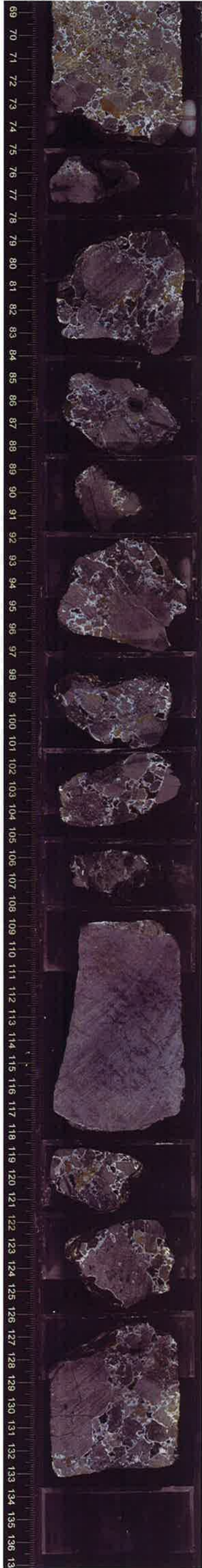
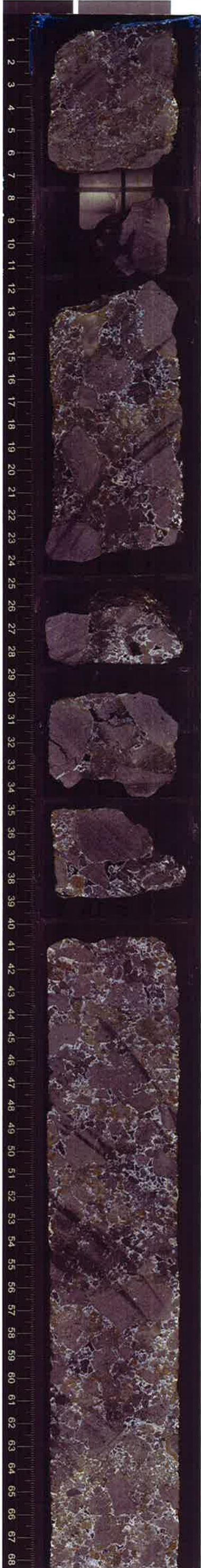
in glomerocrysts  
with augite  
microphenocrysts.

No olivine  
visible

Some clasts are  
aphyric

description also  
applies to  
sections 2-7

and 8, 0-10 cm



95-96cm vein 0.2mm irregular in clast

109-117cm vein 0.5mm curved  
90-100°