

UNIT (93) CONTD.
PIECE 1-4



VESICULAR
CLAST 5%



VESICULAR
CLAST 2%

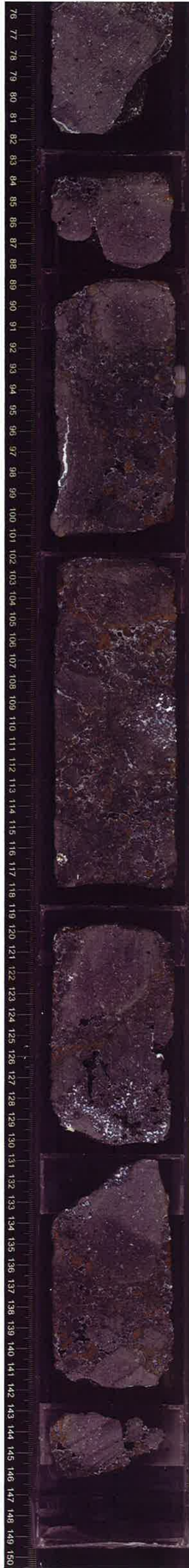
444
200

UNIT 93 CONTD
PIECE 1-9



VESICULAR
CLAST 5%

highly
alt.



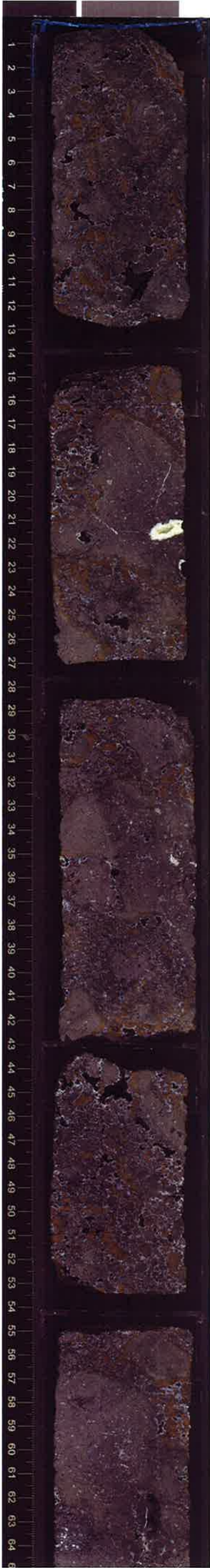
95-100
very straight
85 → 89

113-120
very calcareous, irreg.
in clasts

VESICULAR
CLAST 30%

UNIT 93 CONTD
PIECE 1-8

330-U1374A-47R-6-A_SHLF2799611_20110116143835



highly
altered

18-23 vena network,
w=4 straight in clast

VESICULAR
CLAST 2%

VESICULAR
CLAST 2%

57-60
venal network, w=8
irregular clast



75.5 - P2 band of
vesicles, curved, parallel
to pillow surface

VESICULAR
CLAST 5%

UNIT 93 CONTD
PIECE 1-8



VESICULAR
LAST 5'

25-29
vein calcite, irreg
n=2, in clast



high
alt

97-97
vein calcite, n=1, chalcite
in clast

moderately
alt

102-106 vein calcite, n=6
irreg, in clast

VESICULAR COAST
2'

134-137 vein calcite, irreg,
sharp dip

UNIT (93) CONTD.

PIECE 1-5

330-U1374A-47R-8-A_SHLF2799671_20110116144838



15-21 veins network
w=8, irreg., in clast

high
alt



U2-U4
around vein, 2mm,

U6-U7
vein network, irreg., non-
oriented in clast

VESICULAR
CLAST 10'

UNIT 93 CONTD

PIECE 1-9
 0cm - 48 R 7 81cm
 VOLCANIC BRECCIA
 FRAGMENTED LAVA

3% PLAGIOCLASE
 SUBHEDRAL, FRESH
 4.5mm MAX, 1mm MODE

1% PYROXENE
 SUBHEDRAL, FRESH
 3mm MAX, 1mm MODE

1% OLIVINE
 SUBHEDRAL
 COMPLETELY ALTERED
 3.5mm MAX, 1.5mm MODE

MODERATELY
 PLAGIOCLASE -
 PYROXENE - OLIVINE
 PHYLIC BASALT
 BRECCIA

MOTTLED DARK
 GRAY-ORANGE-GREEN

FINE-GRAINED
 0.1mm

VOLCANIC ATTRIBUTES:

Ø - 48 R 6 135cm
 80% CLAST/MATRIX
 7mm
 LOW, SUBANGULAR
 POORLY SORTED

NOTE:
 augite phenocrysts
 are bottle-green
 in color.

VESICLES: 0cm -
 0.1%. 48 R 7 81cm
 MAX 20mm
 MODE 2mm
 LOW, SUBROUNDED

VESICLE
 CORE 5%

41-44cm vein
 irregular 1mm
 in clast

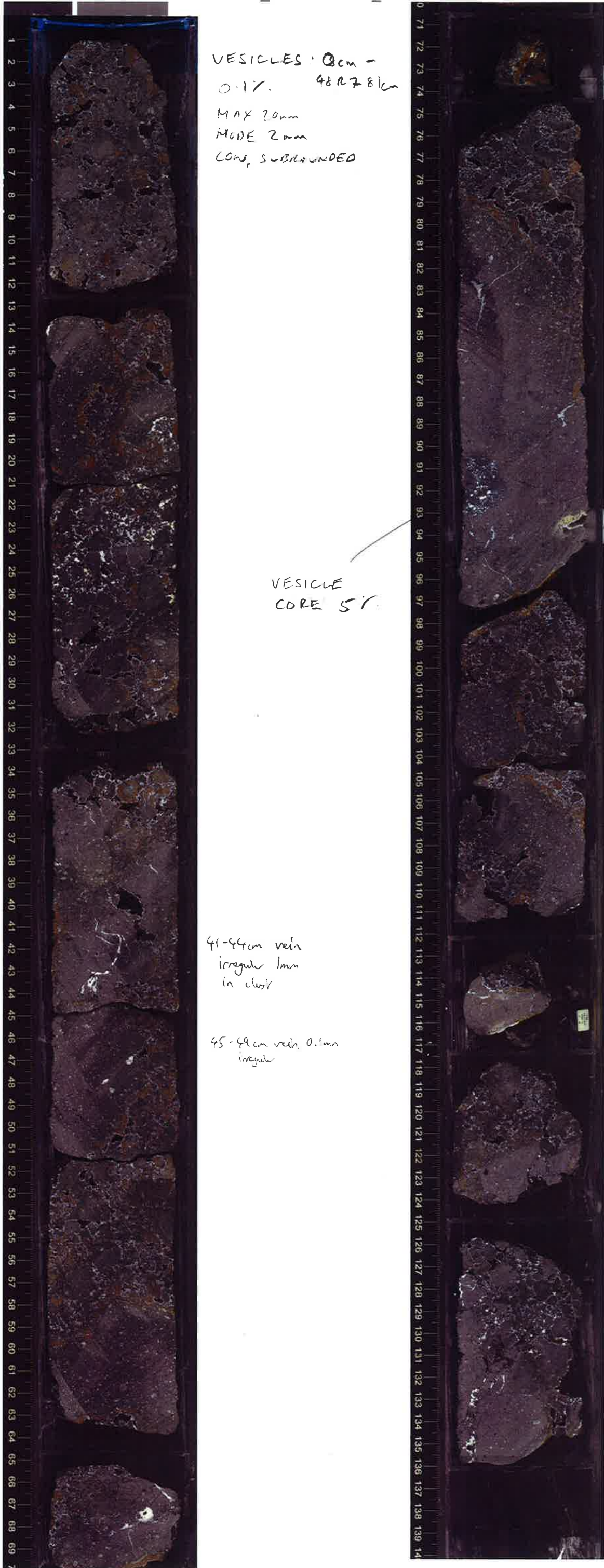
45-48cm vein 0.1mm
 irregular

81-86cm vein 1-2mm irregular

88-89cm vein 1mm irregular

91.5-92.5cm vein 0.5mm irregular

95-97cm vein 0.5mm irregular



UNIT (93) CONTD.
PIECE 1a-4



12-17cm vein 0.5mm curved

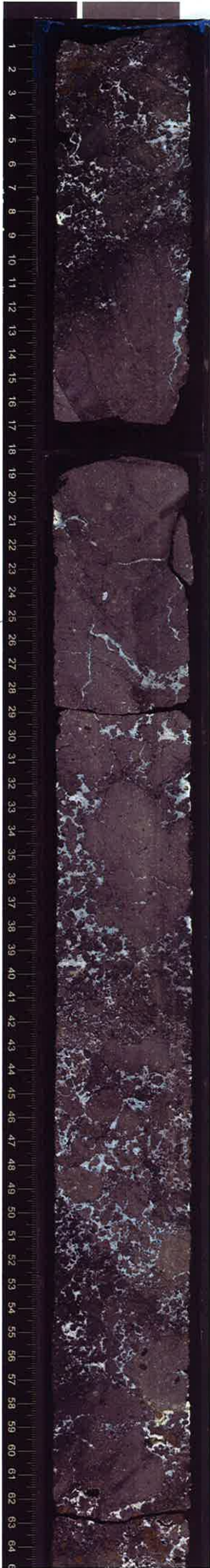
18-19cm vein 1mm irregular

60.5-63cm vein 0.5-1mm
n=3 irregular
branched



12-126cm vein 2-1mm
n=3 branched

UNIT (93)
CONTD
PIECE 1-3



12-16cm vein 3-2mm
irregular

21-31cm vein network
branch n=5
3-1mm

35.5-36.5cm vein 1mm irregular

VESICLE
(VESICULAR CORE
3%)



77.5-81cm vein 2-1mm irregular

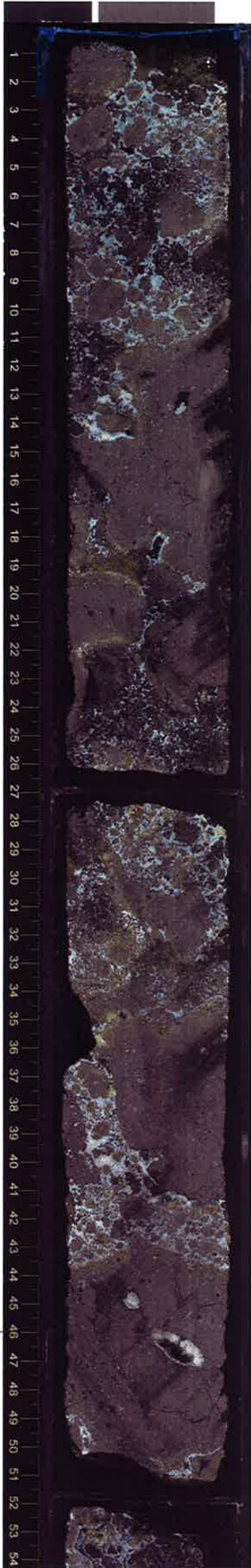
UNIT 93
CONTD
PIECE 1a-3



19-20cm with 2mm
irregular



UNIT (93)
CONTD
PIECE 1-5



14-19cm
vein n=3 0.1mm irreg

36-41cm vein network branch
n=5 0.1mm irreg

44-50cm vein network branch
n=7 0.2mm
irreg

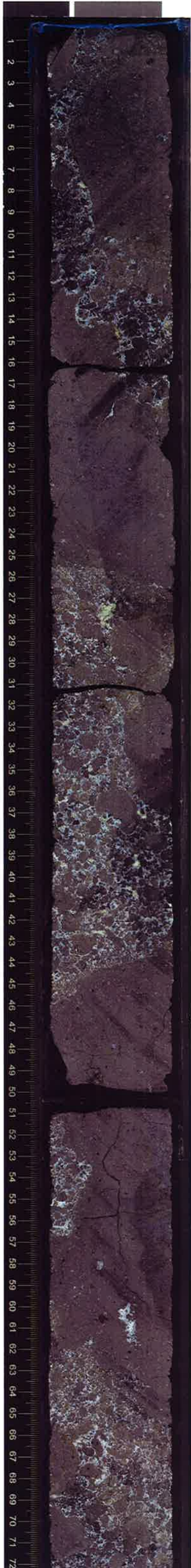
VESICULAR/VUG
IN CORE



70-77cm vein network branch
0.2mm irreg

96-104cm vein network branch
n=7 irreg 0.1mm

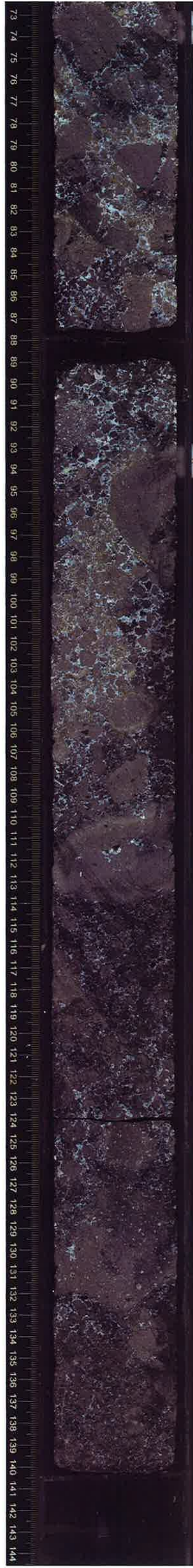
UNIT (93)
CONTD
PIECE 1a-36



19-23cm vein n=2
0.2mm in clast

46-50cm vein ^{network} 0.1mm
n=6 irregular

51-61cm vein network
0.5mm n=5 irregular



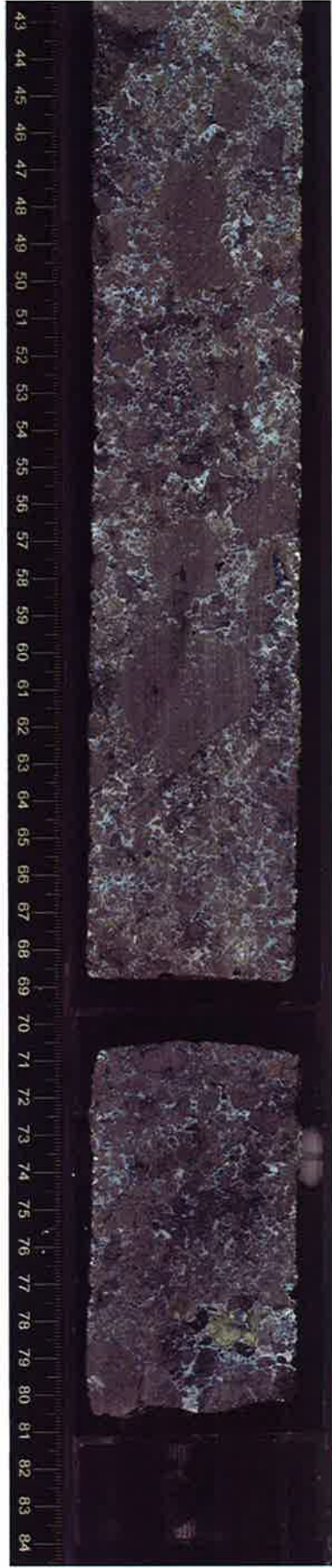
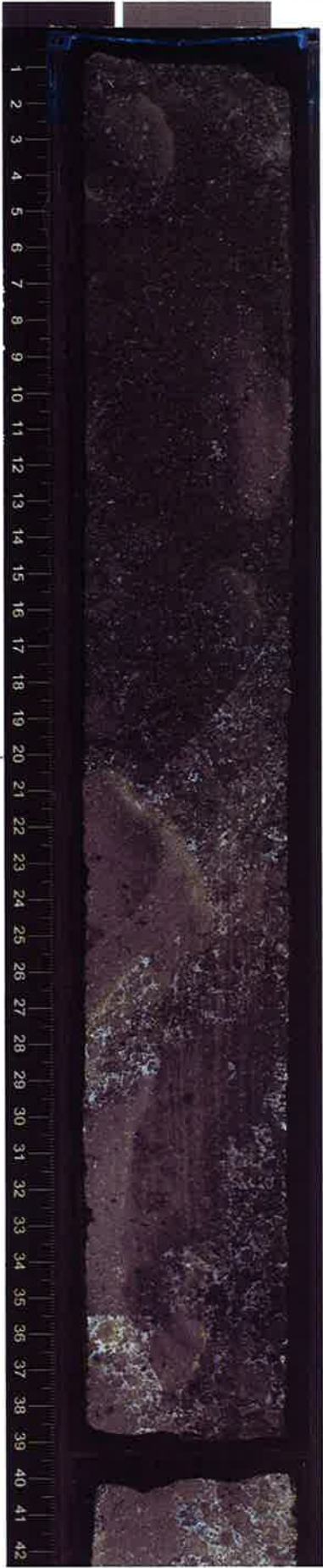
VOLCANIC
ATTRIBUTES
135-48 x 6 20cm
90% CLAST/MATRIX
3mm MODE
MODERATE, SUBROUNDED
POORLY SORTED

330-U1374A-48R-7-A_SHLF2803461_20110116210652

UNIT (93)
LONTO
PIECE 1-3

20cm

VOLCANIC
ATTRIBUTES:
80% CLAST/MATRIX
5mm MIDE
LOW, SUBANGULAR
POORLY SORTED



79-80.5cm with n=2 1mm

UNIT (94)

Moderately
plag-angite -
olivine phyric
basalt

plag. 4%
3mm max
1mm nodal
subhedral
fresh.

angite 3%
7mm max
1.5mm nodal
subhedral, fresh
olivine 1%
3mm max
1.5mm nodal
altered.

UNIT (95)

Volcanic breccia

8mm nodal
low spherulitic
angular
mottled gray-
white
100% volcanic
clasts with
calcite/zeolite
cement.

Clasts:
mod plag-ang-ol-
-phyric basalt
details as for
Unit 94.

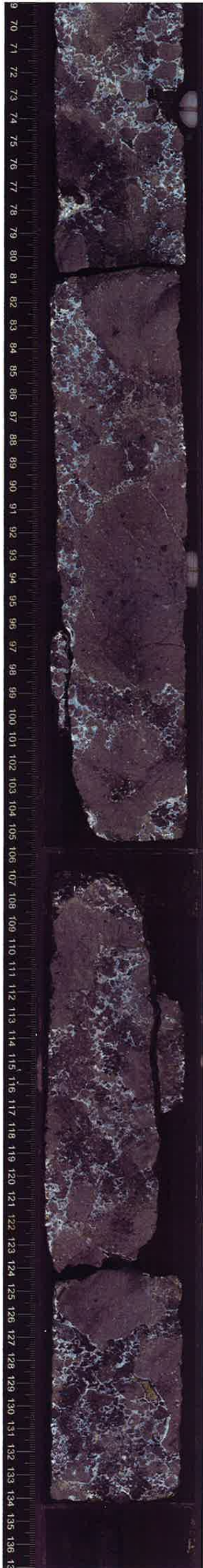
Glass: pervasively
altered but
some fresh



dark gray
aphanitic
0-10cm vein network 0.5mm
branch n=6

11-13cm vein 0.5mm shaght
80-164°

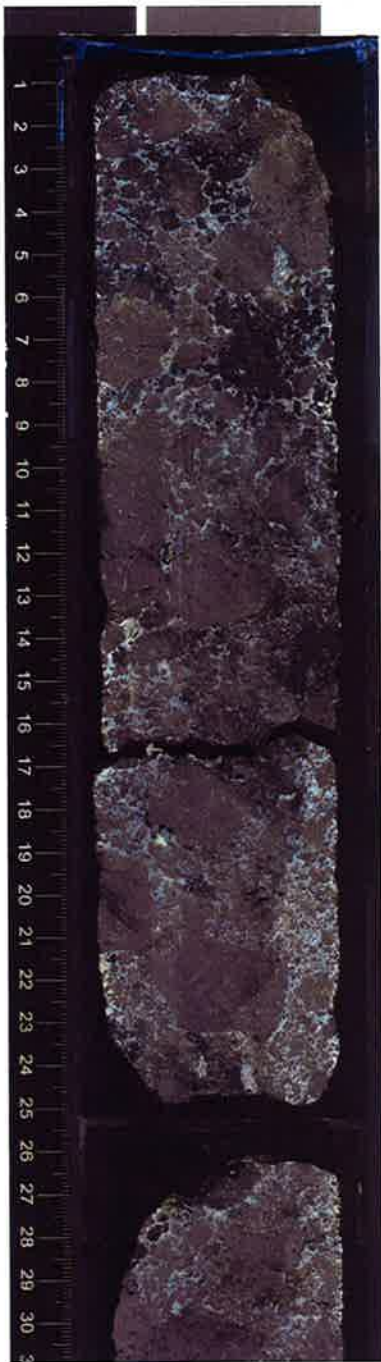
network
11-25cm vein, 0.5mm
irregular branched



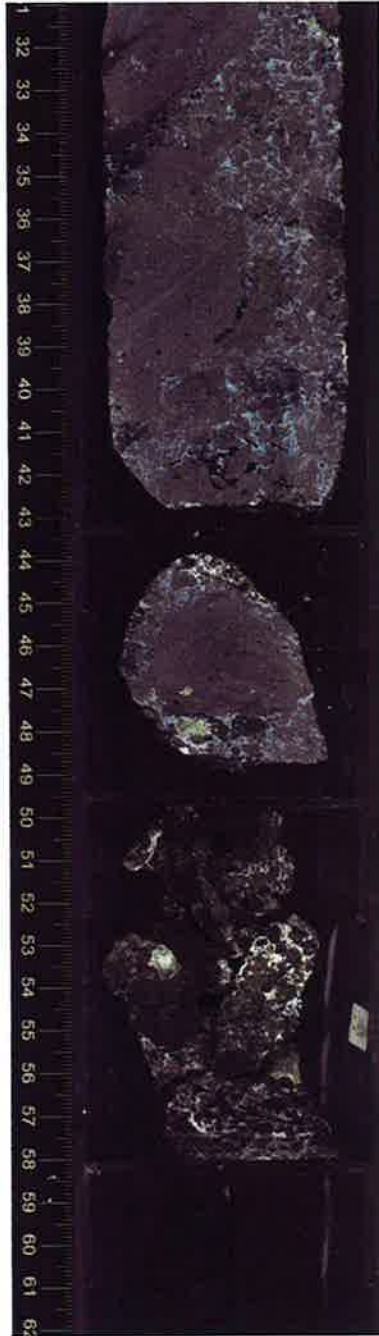
90-97cm vein network 0.5mm
n=8 irregular, branched

330-U1374A-48R-9-A_SHLF2803521_20110116220029

Unit (95)
(Continues)
as in Section 8



11-13 cm vein 0.5mm
strongly



UNIT (95)

(continued)

Volcanic breccia

- Modal 8 mm
- low sphericity,
- angular
- blocks of basalt up to 15 cm
- irregular; altered glassy margins
- pillow fragments?

mottled yellowish gray - white
 100% volcanic clasts with calcite/zeolite cement.

Clasts:

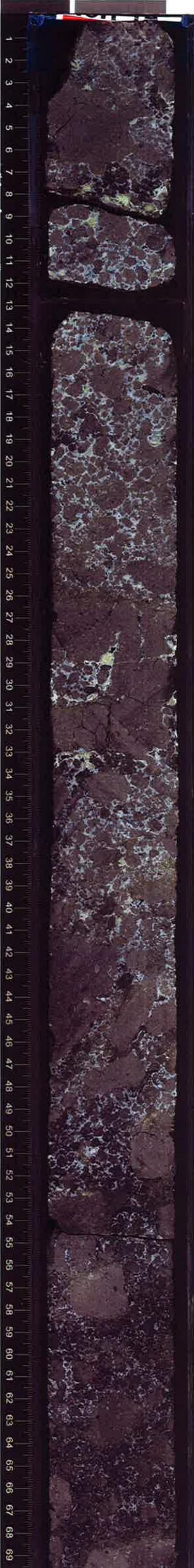
moderately
 plagioclase-olivine
 phyric
 basalt
 aphanitic
 yellowish medium gray.

3% plagioclase
 4 mm max
 1 mm modal
 subhedral
 fresh

2% augite
 3 mm max
 1 mm modal
 subhedral, fresh

1% olivine
 3 mm max
 1 mm modal
 subhedral, altered

No vesicles



4-6 cm vein branches, irregular
 1 mm

26-29 cm vein n=3 2mm irregular

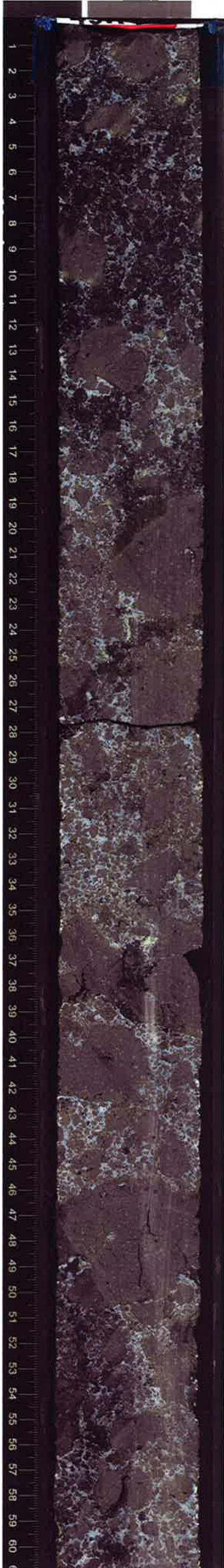
31-33 cm vein n=6 3-1mm irregular



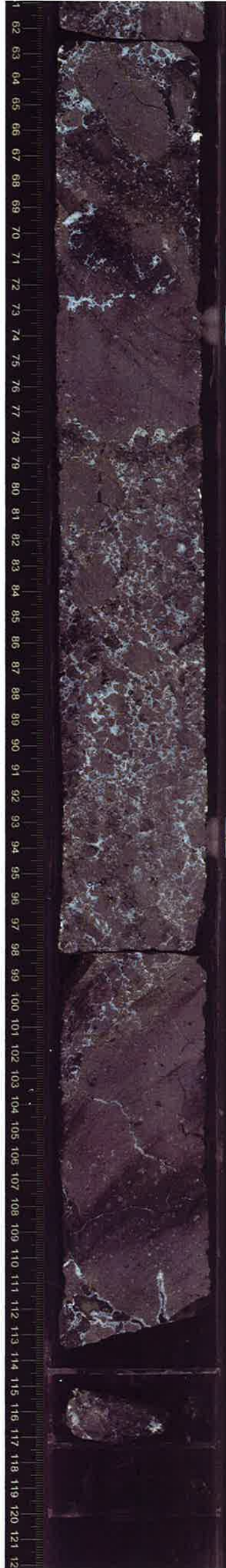
108-109 cm vein 0.5 mm curved

Unit (95)
(Continual)

as for
section 1



46-50cm vein n=2
1mm radiating from core of clast



100-109cm vein n=3
irreg 2mm max 1mm avg

Unit (95)
(continued)
as for
section 1

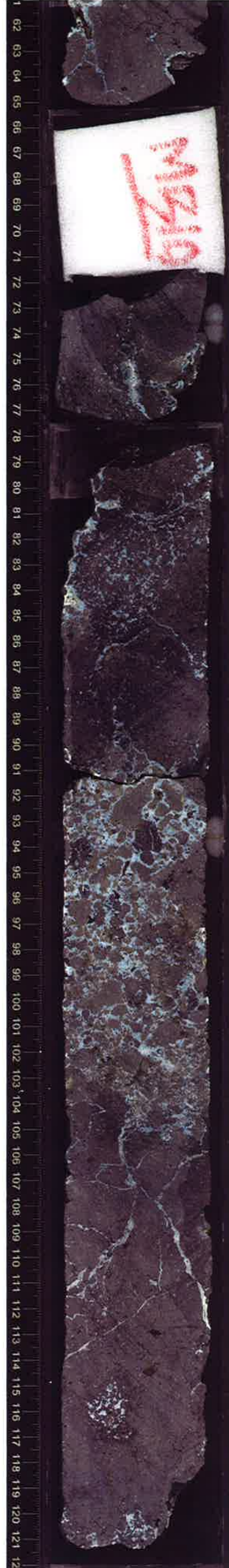


6-8cm vein 0.5mm
n=2 irregular

50-51cm vein 0.2mm straight

51-53cm vein n=2 0.2mm
branched irregular

54-55cm vein 0.2mm
straight

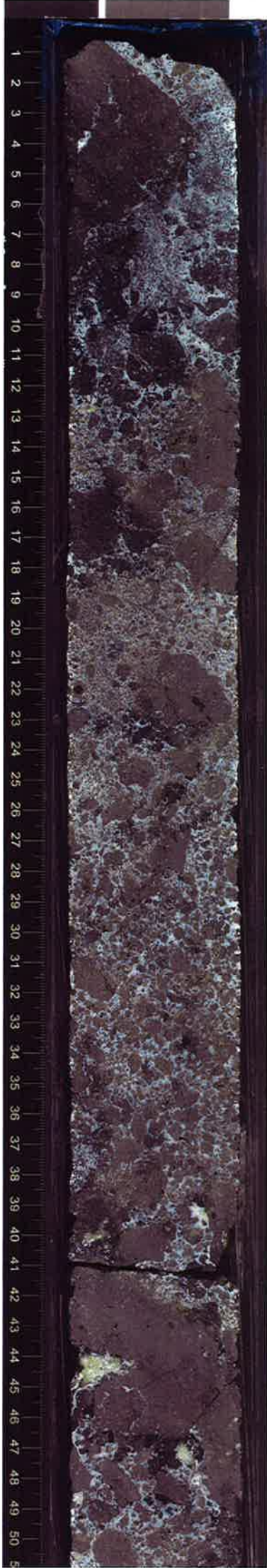


60-65cm vein network
n=8 2-0.5mm irregular

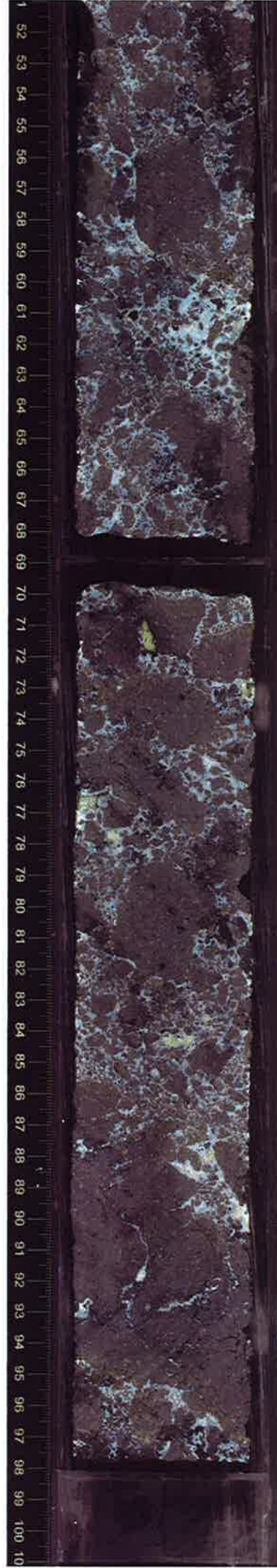
104-114cm vein network n ≈ 10
2mm irregular branching

Unit (15)
(Continued)

as for
Section 1



44-46.5cm vein n=2
0.5mm straight



90-93cm vein n=2 2-3mm
irregular