

UNIT 39
Piece 1-6



1-2 vein (very)
non-oxide

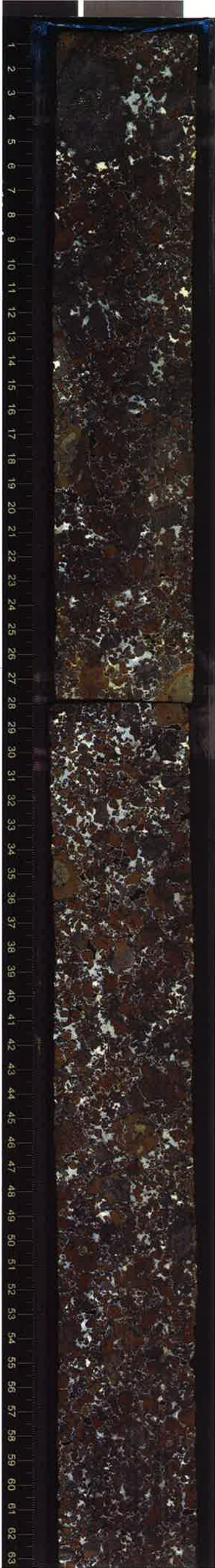
8-10 vein, very
steep dip
moderately
abundant

XENOLITH--
CLAST OF
DUNITE OR
SINGLE
OLIVINE XTAL?

highly
abundant



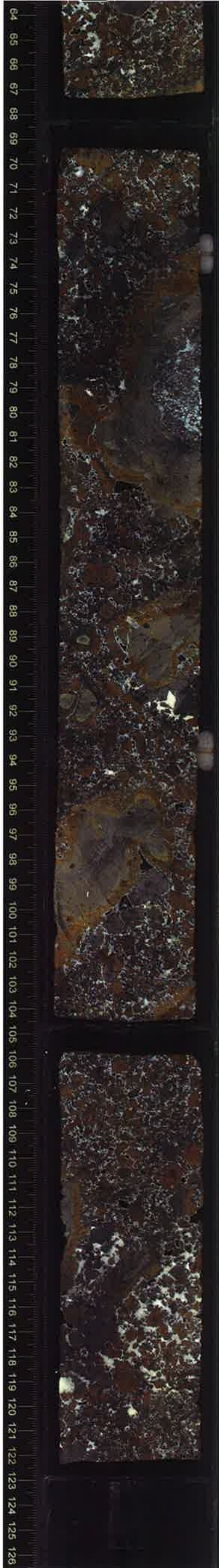
UNIT 39
1a-3



11-13 vein, n=2
chronologically sub-basalt
→ 264

highly altered

44-45 vein, irreg. 1
sub-basalt



moderately altered
interior

88-91
vein network
irreg. 1 non-oriented

116-120
vein network, irreg. 1
non-oriented

UNIT 39

1-2

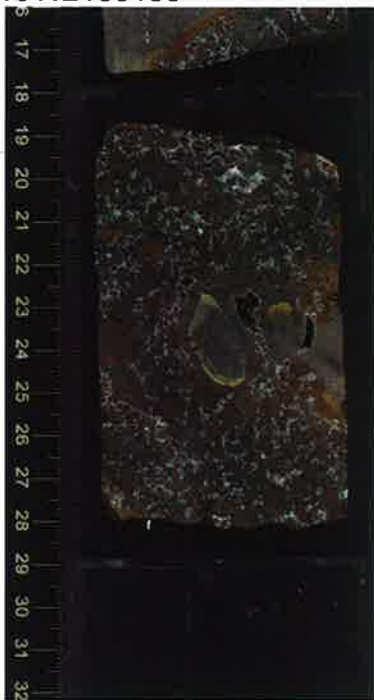
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moderately altered

highly altered
smaller
clasts

Q-14
vein carbonaceous
a-5
irreg. spherulite



UNIT 3
Piece 1-2

TRANSITIONAL ZONE

36.5

BECOMES MASSIVE

UNIT 40 HINT OF A CHILLED MARGIN

36.5-108 cm

Piece 2-3

LAVA FRAGMENT - POSSIBLY PILLOW

ISCI 1

30% OLIVINE

SUBHEDRAL
COMP ALTERED,
7MM MAX
1.5MM MOD.

10% PLAS

SUBHEDRAL FRESH

5.5MM MAX
2MM MOD.

*

MODERATELY
OLIVINE-PLAS-PHYRIC

MEDIUM GRAY
FINE GRAINED O.I.
MOD. PHYRIC

30% VESICLES

17MM MAX
1MM MOD.

ELONGATE
SUB ANGULAR

* 0.5% angite
2mm max.
1mm modal
subhedral



TRANSITIONAL

39-43cm vein 3mm 10-220°

42-46cm vein 1mm 80-320°

Moderately
ol-plag-(ang)
phyric basalt.
Aphanitic

MEDIUM
GRAY

ISCI ①

59-88cm
vein irregular max 3mm
ang 1mm

RADIATING
CRACKS

IRREGULAR
VOIDS



HINT OF A CHILLED MARGIN
← 108

UNIT 41

108-143 cm

PIECE 3

VOLCANIC
BRECCIA

Modal 1cm
mottled
Orange-gray

low spherulites

very angular

phenos in clasts

2% ol 2 mix lured

1% angite 1max 0.5
modal

UNIT 42

143-149 cm

PIECE 3

ISCI ①

UNIT 42

Piece 1. -2a.

Moderately
olivine-plag
(-augite) phytic
3% of 8mm max
1.5mm modal
Subhedral
altered.
1/2 plag.
2mm max
1mm modal.
with inclusions
subhedral
25mm
dunite xenolith
(altered)

0.5% augite
1.5mm max
1mm modal
subhedral.

- No vesicles

UNIT (43)

As Unit 39

UNIT (44)

0.5mm speck of
NATIVE
COPPER

As unit 42

UNIT (45)



0-14cm
vein network
1mm irregular
n=8

Medium
gray
Aphanitic

23-33cm
vein network
irregul n=10

38-41cm vein network
n=10 1mm irregular

mottled
gray-brown.

ISC1 0

medium gray
aphanitic

58-67cm
vein network
n=5
3mm max
2mm avg

67.5

As unit 39

UNIT (46)

79cm

81-88cm vein n=3 1mm
irregular

As unit 42

93-94cm vein 0.5mm
step \rightarrow 020°

ISC1 ①

Medium gray
aphanitic

Vesicular patch

93-119cm
30% vesicles

low sphericity
subangular.
20/cm²
max 5mm
modal 1mm

118-122cm vein n=3 branched
0.2mm wide

UNIT (47)

Volcanic
breccia



UNIT 47
(Continued)

Volcanic
breccia

as unit 39

basaltic
clasts with
altered ?glassy
margins.



99.5-102 cm vein 3mm n=1
curved

grain size decreasing



27 cm UNIT (48)

Coarse grain

Volcanic breccia

Modal clast size 20 mm low sphericity very angular

25-27cm ? bedding? 80-330°

Fine-grained base of Unit 47

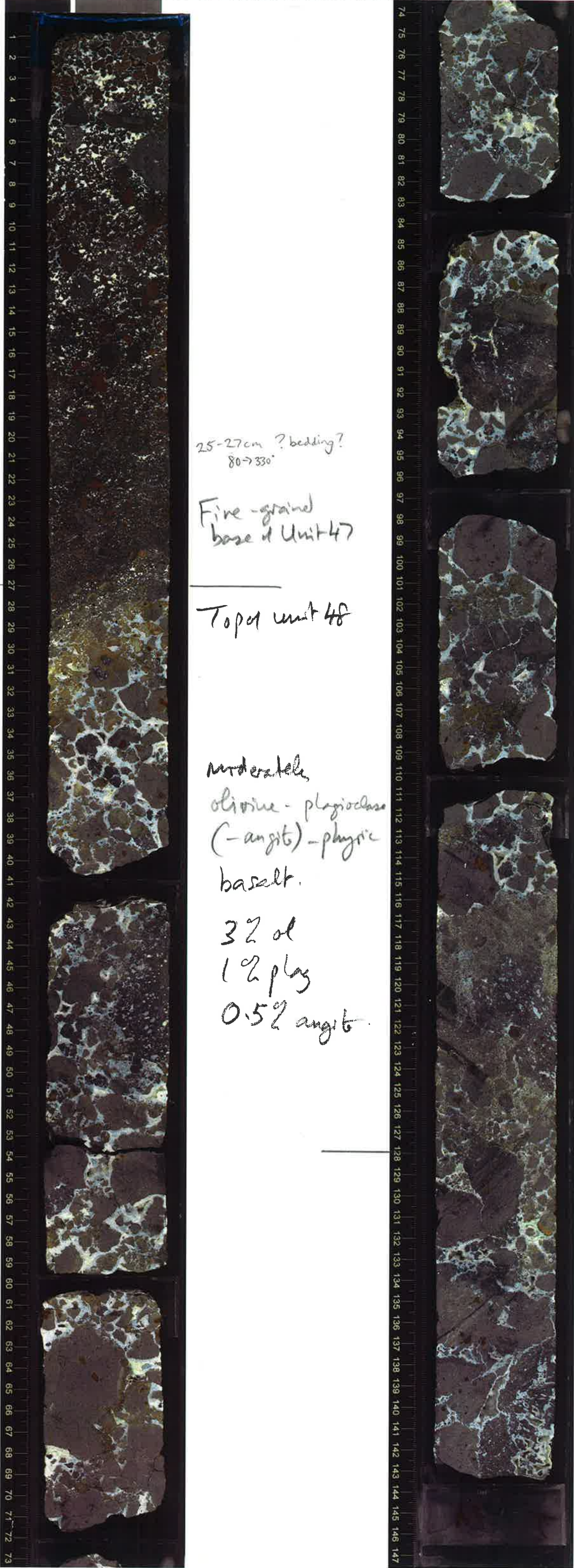
Top of unit 48

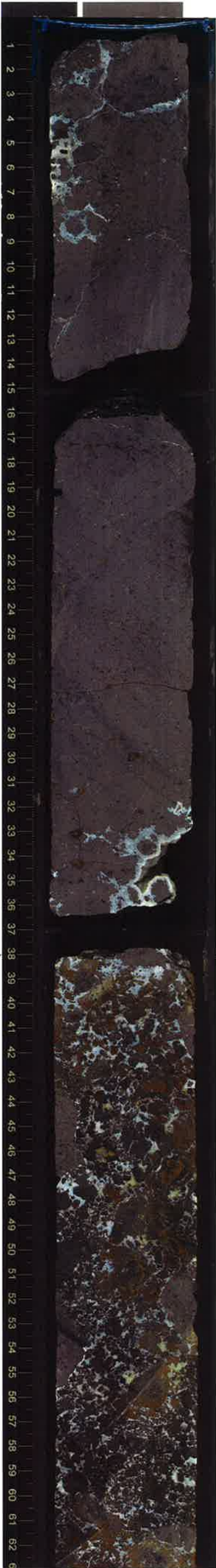
Moderately olivine - plagioclase (-angite) - phyric basalt.

3% ol
1% plag
0.5% angite.

UNIT (49)

basaltic ? pillow fractured at margins.





Sparsely
olivine - augite
(- plagioclase)
phyritic
basalt.

1% olivine
4mm max
1.5mm nodal
Subhedral,
altered.

1% augite
6mm max
1mm nodal
Subhedral
fresh.

0.5% plagioclase
3mm max
1mm nodal
elongate, subhedral

UNIT (50)

Volcanic
breccia
as unit 39

3.5-4cm vein 3mm 30-330°

9-9.5cm vein 0.2mm 60-70°

9-12cm vein 0.1mm 55-235°
straight

10-14cm vein 0.1mm straight 85-120°

Dark gray
aphanitic

no vesicles

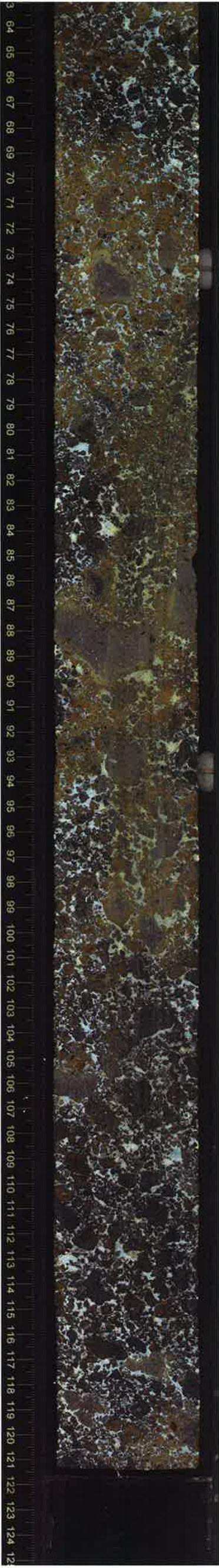
16-17cm vein 0.5mm 36-72°
straight

17-18cm vein 0.1mm straight 50-70°

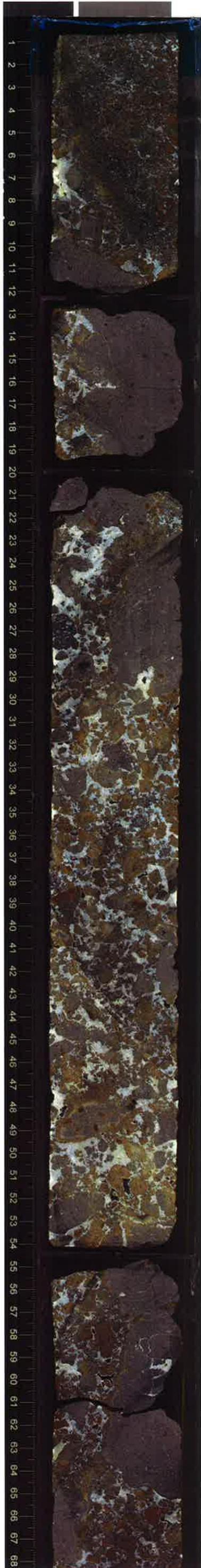
ISC1 (1)

27-27.5cm vein 0.2mm 50-70°

27.5-33cm vein network n=5 0.1mm
irregular



UNIT (50)
(Continued)



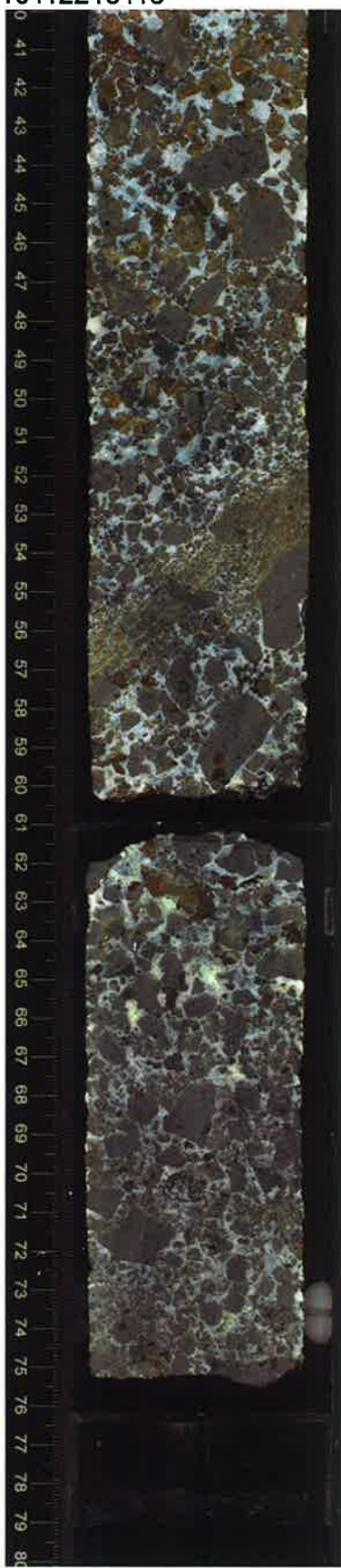
58-61 cm
vein network
0.5 mm
irregular



81-84 cm vein network n=3
1mm

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UNIT (50)
(continues)



52-57cm bedding?
45 → 324°

UNIT (50)
(continued)

Basaltic
breccia

Modal 8mm

Medium brown-
gray

sparsely olivine-
(-plagioclase - augite)
phyric basalt.

1% olivine
0.2% plagioclase
0.2% augite
(olivine altered)

No vesicles

highly
altered
boundary

66 cm

UNIT (51)



mus
vein network, as to
irreg, non-oriented
in clark

low sphericity
angular

100-102
vein, irreg
non-orient
102-104
vein, irreg,
non-orient
108-111
vein netw.
irreg.
non-orient.

moderately
altered
large
clasts.
highly
altered
smaller
ones.

125-128
vein when
irreg non-
orient

131-138
vein netw
irreg,
non-orient

Fining
downward.

139-
148
vein when
irreg,
non-orient



Basaltic
breccia

Modal 15mm

sparsely olivine-
plagioclase
- phyric basalt

1% olivine
(altered)
0.2% plagioclase

No vesicles.

moderately
altered

highly
altered
zone

129 cm

Unit (52)

Moderately olivine-
(-plagioclase)
(-augite) phyric
basalt
lava lobe

2% olivine
8mm max 3mm modal
(altered)
0.1% plagioclase
3mm max, 2mm modal
0.1% augite
subhedral
1mm max, 1mm modal

moderately altered

Unit (52)
(Continued)

As in
Section 1.

Medium
gray
moderately
altered

26-29
vesic = 2, irreg,
non-orient.

38-43
vesic, irreg,
non-orient.

42 cm.

Unit (53)

Basaltic
breccia

Modal 10mm
low sphericity
angular

49-51
vesic
irreg,
non-orient.



a-28 vesic network
irreg, non-orient

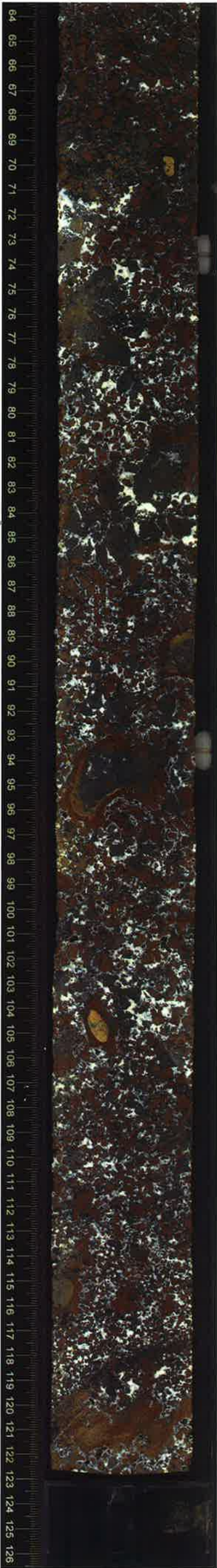


15

Vesicular
patch
10% elongate, angular
20/cm²
7mm max 0.5mm
modal

27

fractured lobe
base



highly altered
some underlying of
larger clasts are
moderately
altered

No vesicles

Mottled
Orange-gray
Sparsely al-
phyric basalt
1% olivine
3mm max
1mm modal
altered.
0.1% plag
10mm max
3mm modal
0.1% augite
3mm max
3mm modal

UNIT 53
(Continued)

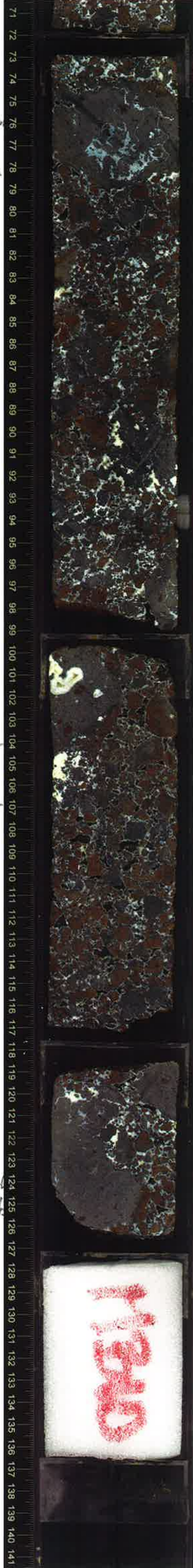
As in
section 2



74-78
vein with
h=9, irreg,
non-orient

104-105
vein with
irreg, non-
oriented

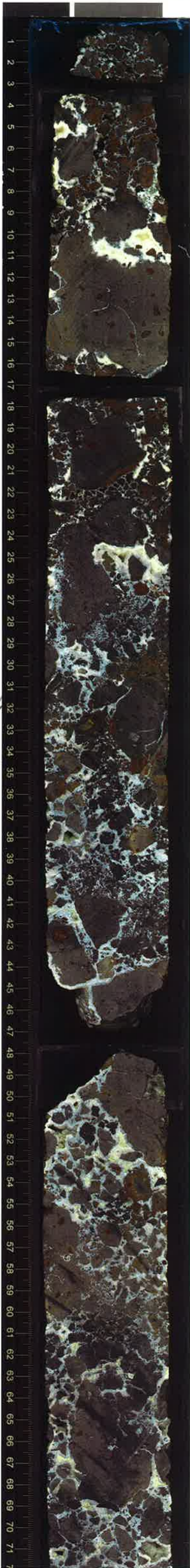
123
vein, sharp
non-orient
- plagioclase in clast
phenocryst.



moderately
altered interior

highly altered

11330



79-80
vein texture,
irreg., non-
oriented

12-15
vein texture,
irreg., non-oriented

moderately
altered

increase
in
cement
↓

30-32
vein, sharp
Sub-horiz.
32-34 vein
irreg., deep
dip

49-51
vein texture,
irreg., non-
oriented.

61-62
vein texture,
irreg., non-
oriented.

116 cm

116-129
vein texture,
irreg., non-
oriented in
clast

15C10

140 cm

End of unit (53)

Unit (54)
Sparsely olivine-
(angite - plagioclase)
- phytic
basalt

1% olivine
max 10mm
modal 3mm
altered subhedral

0.5% angite
max. 8mm
modal 3mm
subhedral

0.1% plag.
max 5mm
modal 2mm

end of unit (54)