

TOP CONCRETE NOT RECOVERED

330-U1374A-52R-1-A\_SHL\_809241\_20110117220025

UNIT 103

PIECE 1a - 3

0 - 52R-2 48 cm

? dyke or small sheet.

APHYRIC BASALT

brownish gray  
streaky

variation in  
color and texture  
across core

aphyric basalt  
with moderately  
plagioclase-phyric  
patches

look like filled  
amygdales (not calcite)  
but some have  
crystal outlines

IF plagioclase then

0 - 5%  
3 mm max  
2 mm modal  
subhedral  
fresh.

less vesicular  
on this side

Vesicles

20 - 102 cm.

5%

low sphericity

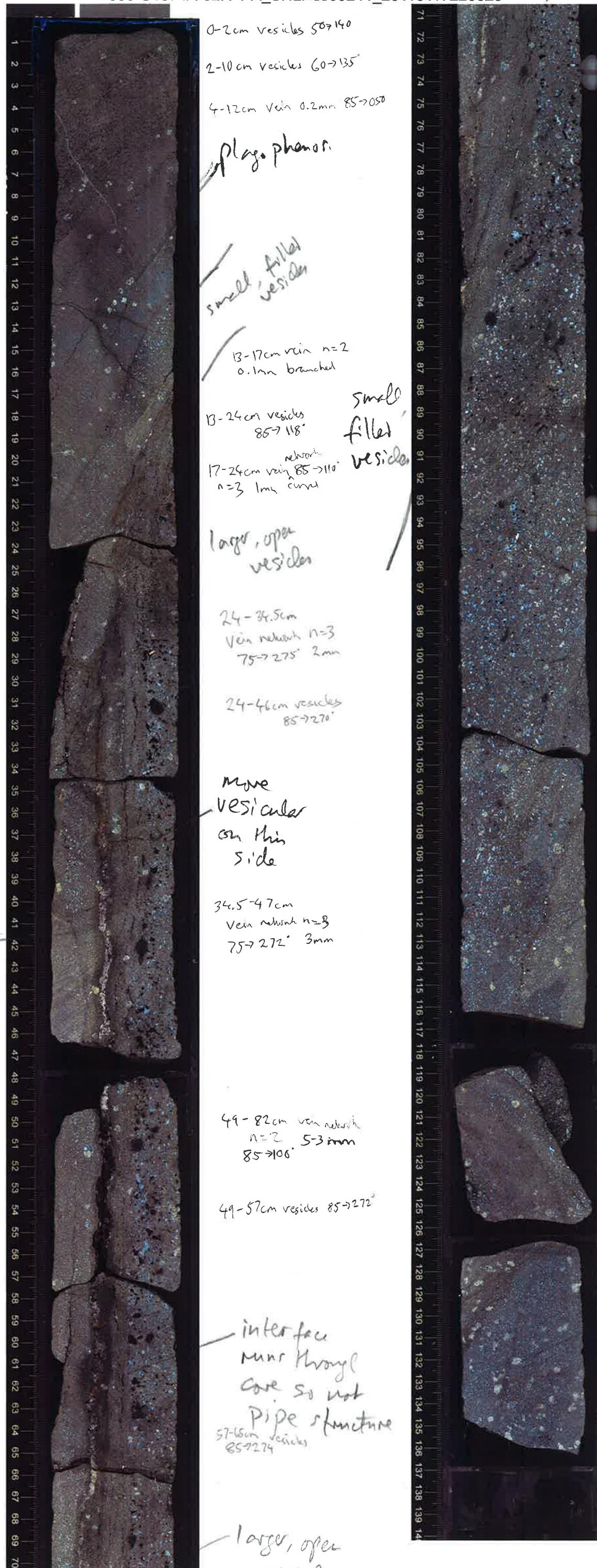
subangular.

5 mm max

1 mm modal

10/cm<sup>2</sup>

20% filled



large, open  
vesicles.

107-116cm vein 0.3mm straight  
65-71°S.

v. small  
vesicles.

116-117cm conjugate vein 88-90°E  
0.2mm straight

119-125cm vein 0.2mm straight  
52-56°S.

127-129.5cm vein 0.1mm straight  
60-73°S.

plagioclase  
phenocrysts

interface  
near Koryak  
core so not  
pipe structure  
57-60cm vesicles  
85-92°S

larger, open  
vesicles.

small  
filled vesicles

330-U1374A-52R-2-A\_SHLF2809271\_20110117202607

UNIT 103  
CONT'D



Part of unit  
102

PIECE 3-46

BRECCIA AT margin  
of small intrusive  
sheet

I. PLACIOCLASE

SUBUEDRAL, SLIGHTLY ALTERED

1.5mm, 1mm

II. PYROXENE

SUBUEDRAL, FRESH

1mm, 1mm

(OLIVINE IN BRECCIA MATRIX, BUT NOT CLASTS)  
COMpletely ALTERED



▷ MODERATELY PLACIOCLASE-PYROXENE PYRRHIC  
BASALT BRECCIA

(OLIVINE IN BRECCIA MATRIX, BUT NOT CLASTS)  
COMpletely ALTERED

## UNIT (103)

(Continued)

aphyric basalt

medium gray

fine grained (0.1m)



6-4cm residue 70-722'

9-20cm vein 0.2mm curved  
75-722'11-12cm vein <sup>wavy</sup> n=3 0.1mm  
irregular14-15cm vein straight 0.2mm  
65-703023.5-29cm vein 0.1mm straight  
50-7030

28-32cm vein 0.05mm 50-7275

35-37cm vein 0.1mm stepped  
70-733538-42cm vein branched 0.1mm  
75-7325

end of UNIT 103

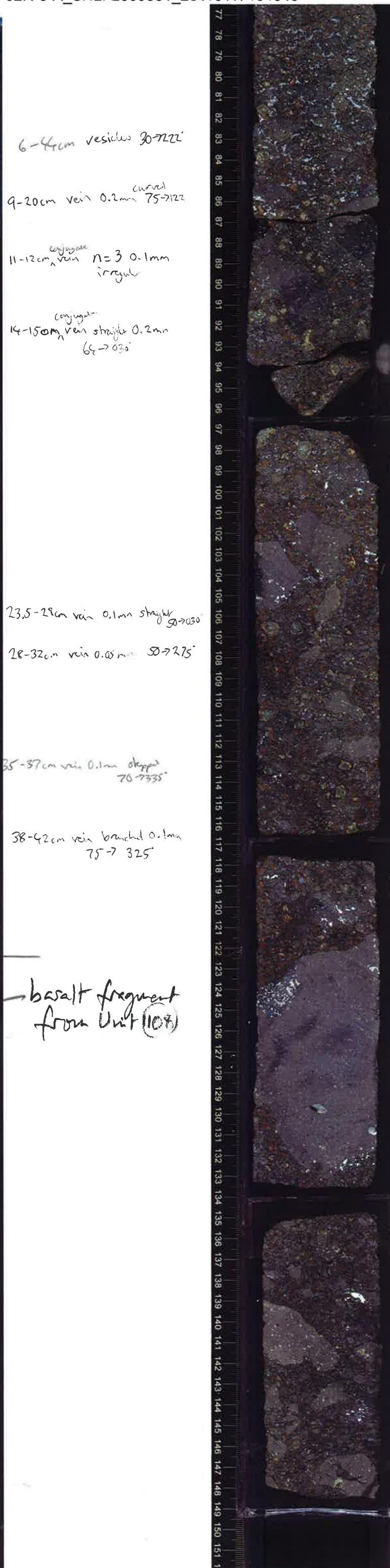
## UNIT (104)

volcaniclastic  
brecciamottled gray-  
green-orange-  
white

modal 5mm

low sphericity  
angular.100% volcanic  
clasts cemented  
with calcite/  
zeolite

Bimodal

basalt fragment  
from Unit (103)clastsmoderately  
plagioclase - Olivine  
- plagioclase basalt

3% plagi

max 5 mm  
modal 1 mm  
subhedral, fresh,

## 2% augite (green)

2mm max  
1 mm modal  
Subhedral, fresh

1% olivine

3 mm max  
1 mm modal  
Subhedral,  
alteredmedium gray  
aphanitic

Unit (104)  
(continued)

Same as  
section 3



Unit 104  
(continued)

as section 3

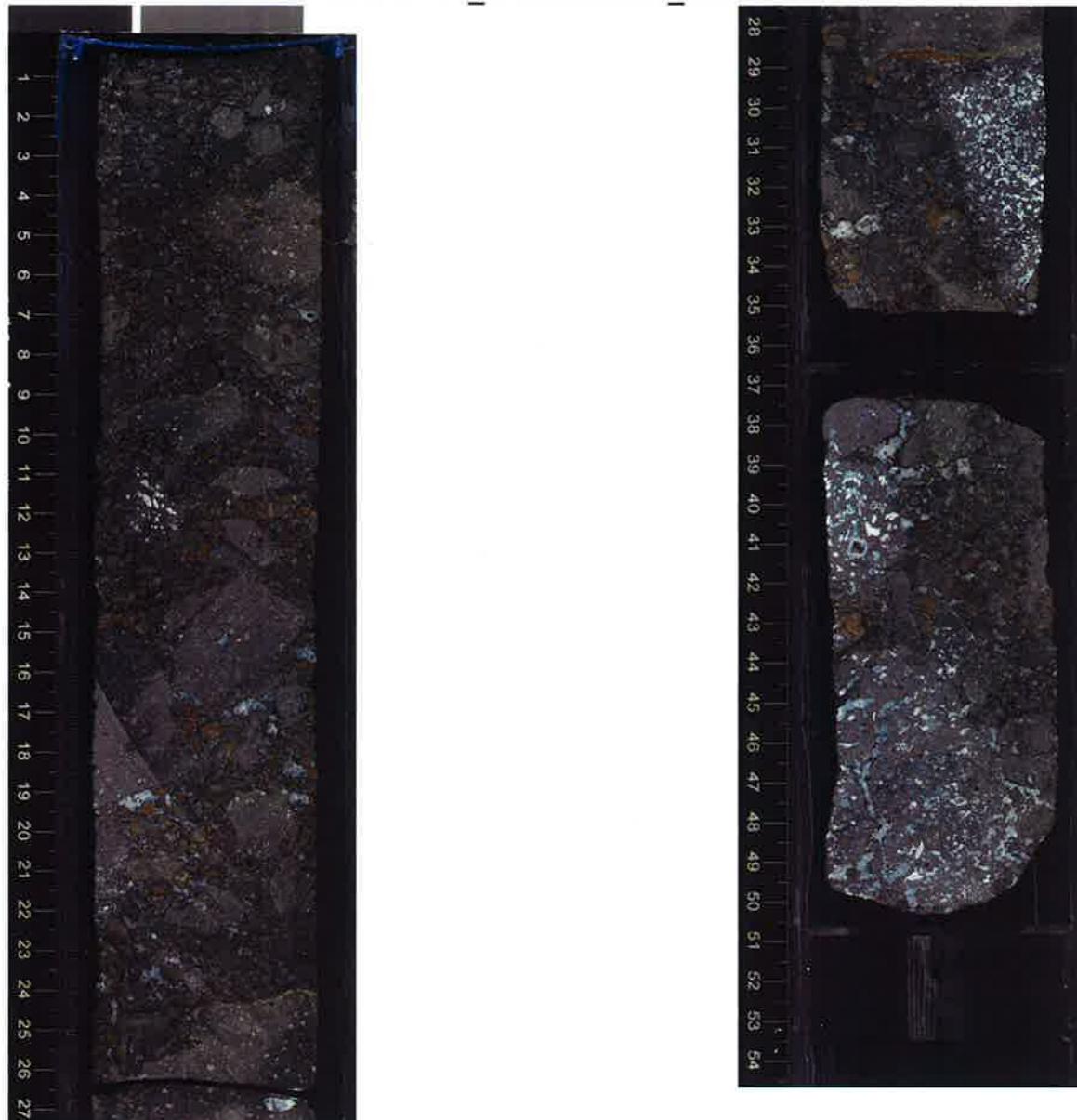


Unit ④  
(continued)  
No section?



Unit (104)  
(continued)  
as section 3

330-U1374A-52R-7-A\_SHLF2809421\_20110117202108



Unit 104  
(continued)

Volcaniclastic  
breccia

Large (up to 15cm)  
subangular clasts  
in a matrix of  
smaller clasts

Mode 5 mm  
low sphericity  
Subangular

Small clasts  
mostly pervasively  
altered glass

Some fresh glass  
bimodal  
Mottled green-  
gray

### Clasts

Moderately  
plagioclase - olivine  
- phryric basalt

32 plagioclase

2 mm max  
1 mm modal  
subhedral  
fresh

2% augite (green)  
3 mm max  
1 mm modal  
subhedral, fresh

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

Aphanitic, medium gray, mostly non-vesicular

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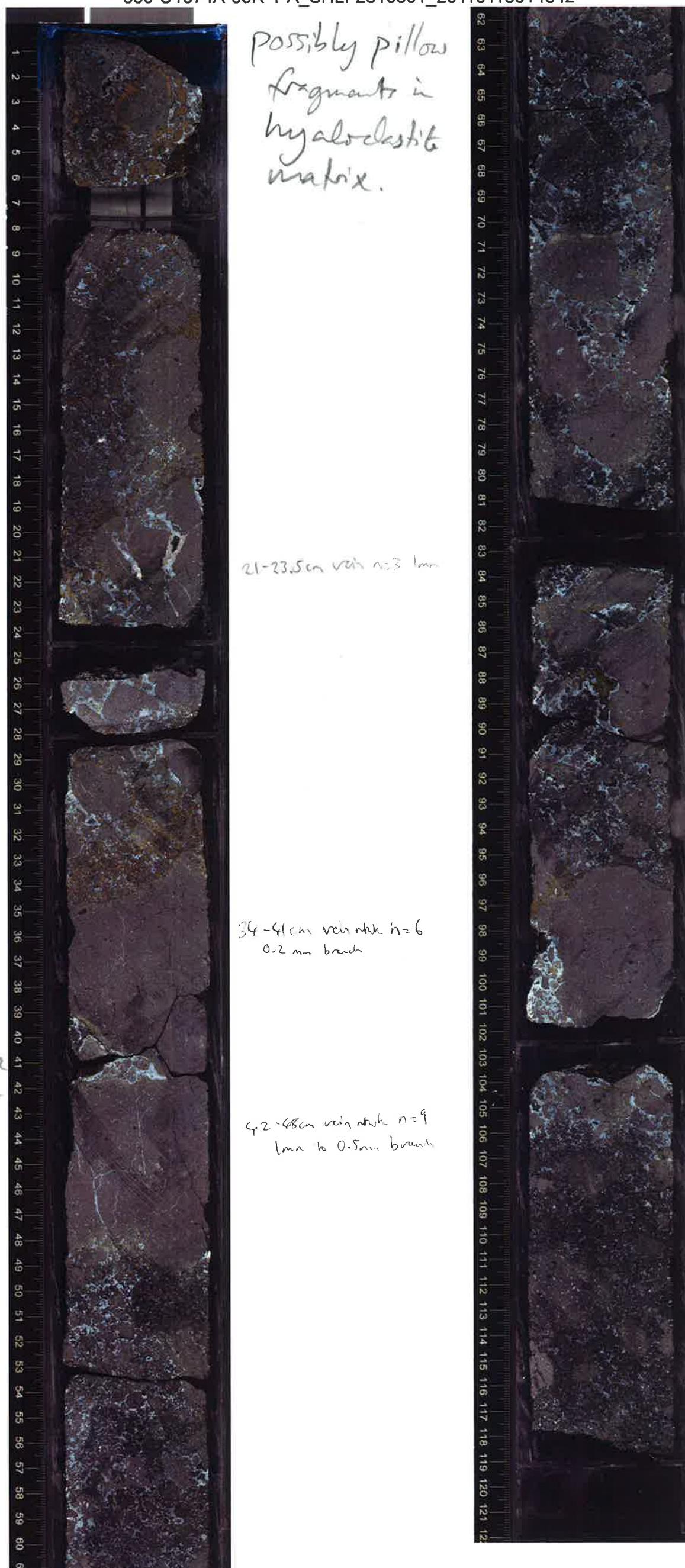
Possibly pillow  
fragments in  
hyaloclastite  
matrix.

21-23.5 cm vein n=3 1mm

34-46 cm vein width n=6  
0.2 mm brush

42-48 cm vein width n=9  
1mm to 0.5mm brush

96-101 cm vein width n~10  
0.1 mm brush



Unit 104  
(continued)

as for  
Section 1.

except for  
appearance of  
occasional,  
small aphyric  
basalt clasts

330-U1374A-53R-2-A\_SHLF2810631\_20110118014852



aphyric  
basalt

aphyric basalt

aphyric basalt

Unit 104

(continued)

- as for Section 1

Some small  
aphyric basalt  
clasts



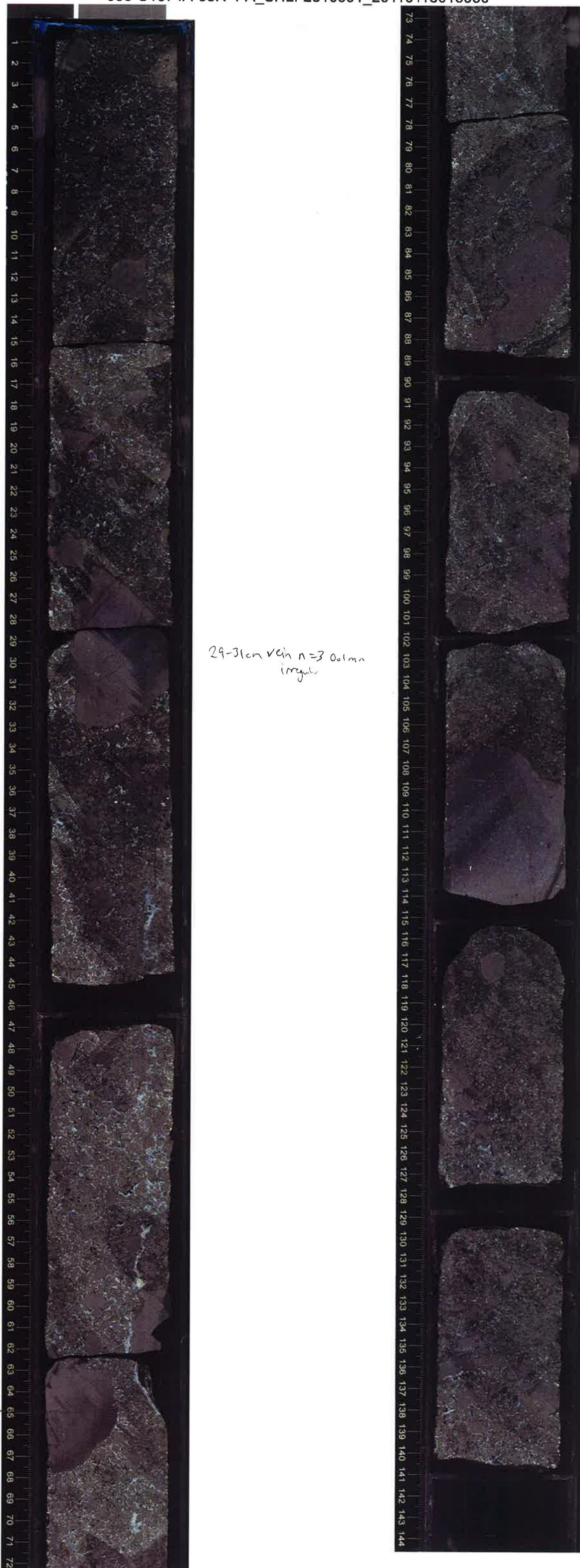
104-106 cm vein 2 mm irregular

Unit (04)  
(Continued)

as for section 1

except

appearance of  
first large aphyric  
basalt clast  
at 63 cm.



Unit 104  
(Continued)



aphyric  
basalt



Unit 105  
(continued)

as for section 5



330-U1374A-53R-7-A\_SHLF2810781\_20110118021254



Unit 105  
(continued)  
as for section 5  
except for  
colour change  
at  
11 cm

Mottled orange-  
grey

small, altered  
glass clasts are  
now oxidised

carbonate  
cement  
fewer small  
glass clasts  
- more void space

UNIT 105

Volcaniclastic  
breccia

0-38 cm

mottled

medium gray

- white

10 mm modal

low sphericity

angular

poorly sorted

100% volcanic

fragments w/

calcite cement

38 cm

38-123 cm

mottled gray -  
orange - white

8 mm modal

low sphericity

angular

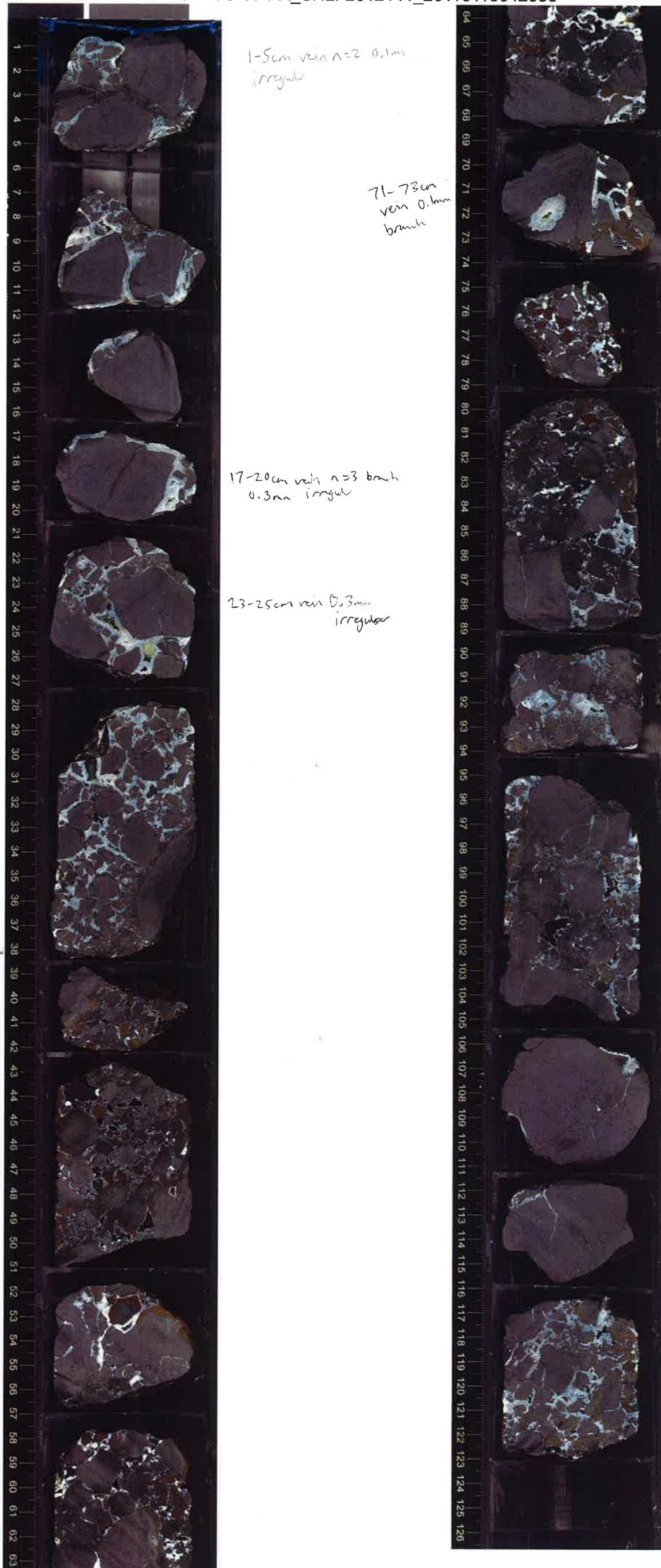
bimodal

100% volcanic

clasts w/

calcite cement.

330-U1374A-54R-1-A\_SHLF2812141\_20110118042656



Clasts:

Aphyric basalt  
dark gray  
aphanitic

no phenocrysts  
no vesicles.

glass completely  
altered

86-89 cm vein 0.3mm straight single  
28-785°

90-91 cm vein n=3 0.5mm irregular

96-98 cm vein n=5 1 to 0.5 mm  
irregular

103-104.5 cm vein 2mm irregular

107-110 cm vein branch 0.5mm  
irregular

112-116 cm vein branch 0.5mm  
irregular

Unit 105  
(continued)

Volcaniclastic  
breccia

5 mm nodules  
low sphericity,  
angular.  
weathered gray -  
brown-orange.  
bimodal

Clasts  
aphyric basalt  
dark gray  
no phenocrysts  
aphanitic

