330-U1372A-28R-1-A_SHLF2714711_20101228135435

UNIT 67 0-25.5cm

P.1-4

NOT RECOVERED BOUNDARY

LARGE CLAST OF VESICULAR APHYRIC BASALT, 45 mm

CHILLED GLASSY MARGIN

APHYRIC BASALT

0% PHENOCRYSTS

(MINOR PLAG LATHS ~0.3 mm)

MOTTLED GREEN - BLACK - BROWN - GRAY

FRESH GLASS FRAGMENTS THROUGHOUT A MODERATELY ALTERED GROUNDMASS.

CLASTS

FINE-GRAINED 0.1mm

APHYRIC.

VESICULAR, 15%, ROUNDED, HIGH SPH, 0.8mm MOD, 14mm MAX

VOLCANIC ATTRIBUTES.

VOLCANIC CLASTS, 50% 5mm MOD, LOW SPHER. SUBROUNDED. POORLY SORTED.

25.5

UNIT 68 25.5cm - 44

P.4

CHILLED GLASSY MARGIN.

APHYRIC BASALT

STRUCTURE

PIPE VESICLES. WAY-UP FEATURE

FELDSPAR LATHS INDIVIDUALS VISIBLE

MED. GRAY FINE-GRAINED 0.1mm

VESICLES

10% ELONGATE ROUNDED

21mm MAX

2mm MOD.

CONTACT NOT RECOVERED

44

UNIT 69

P.5-6

44-130cm THROUGH TO END OF CORE

NOT RECOVERED.

PHENOCRYSTS IN CLASTS

0%

BASALT BRECCIA WITH APHYRIC BASALT CLASTS.

MOTTLED BLACK-GREEN-BROWN-BLUE

FRESH GLASS THROUGHOUT APHYRIC GRAIN-SUPPORTED.

VOLCANIC ATTRIBUTES.

VOLCANIC CLASTS 75% PARTICLES, 8mm, LOW SPH. SUB ROUNDED. POORLY SORTED.

SOME LARGER CLASTS ~45mm. CROSSES CORE. FLUIDAL MARGINS.

DRILLING RUBBLE

6-8 irregular, single vein, steep dip

8-10 pipe vesicle 180°

highly altered clast

black glass-rich matrix moderately altered

WAY UP FEATURE

FLUIDAL CONTACT WITH DIAPIRS INTRUDING INTO GROUNDMASS DUST EMPLACEMENT?

27-30 vesicle band → 216

FLOW OR INTRUSION INTO HYALOCLASTITE? OR CLAST?

moderately altered clast

33-37 aligned vesicles, 313°

calcite + zeolites in vesicles

41-43 chilled glassy contact

FRESH GLASSY MARGIN.

PIECE HOW WORKING HALF TO SAMPLE GLASSY MARGIN.

ARCHIVE HALF REPLACED RE-IMAGED & RE-SUBMISLED.

Brownish gray mudstone altered clast in glassy matrix

VESICLES IN CLASTS

15%

LOW SPH.

ROUNDED

4mm max

1mm MOD.

69-71 single veins, steep dip

82-86 vesicle band → 210°

Grayish blue lining in vesicle chalcedony?

UNIT 69 P.1-7

330-U1372A-29R-1-A_SHLF2715681_20101228192421

Drilling rubble

Basalt Breccia
with aphyric basalt clast
(hyaloclastite)

Upper Boundary
not recovered

Phynocryst 0%
Aphyric Basalt

Color - Texture
mottled black green
blue brownygray

Glass : fresh

magmatic texture
→ grain-supported

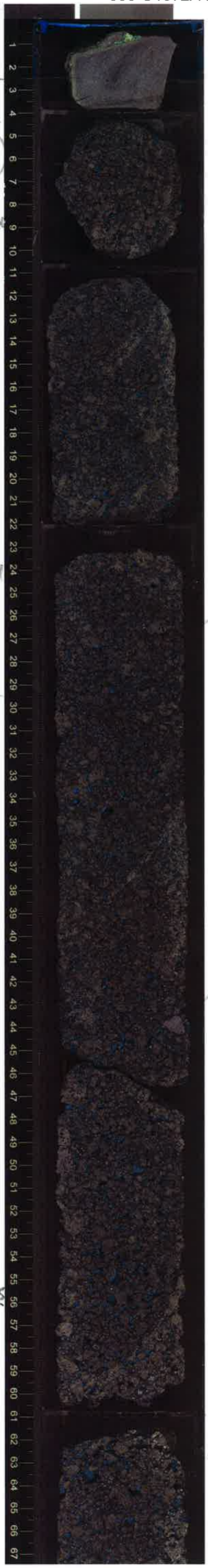
glass altered, but
fresh glass fragments
throughout

Volcanic Attributes

Particles : Clasts
Max 70 mm
mod 8 mm

Low sphericity
subrounded
poor sorting

Comment
largest clast crosses
core and is 70mm
in width; many
clasts have fluidal
margins. Clasts are
vesicular, some
scoriaceous



VESICULES
IN CLASTS
15%
Elongate
Subrounded
Max : 25 mm
Mod : 4 mm

Black glassy
matrix
mod altered
but ~50% glass

Same alteration
throughout
sec 1,2,3,4

Small clast
moderately
altered