

UNIT 15

Cont'd

PIECE 1-6

MASSIVE LAVA

THICK LAVA FLOW.

(SCI 3)

OLIVINES
10%

FRESH COMPLETELY ALT.
NEAR TO FRACTURES,
9MM MAX
4MM MOD.

to
green
clay

PYROXENE
4%

FRESH

6MM MAX
3MM MOD

HIGHLY OLIVINE-
AUGITE - PHYLIC
BASALT

MEDIUM GRAY

FINE GRAINED
0.2mm

HIGHLY PHYLIC
MASSIVE

330-U1376A-11R-1-A_SHLF2891981_20110131130717



DRILLING
DEBRIS

56-61
vein network
w=2, 0.4mm
branched
61-83

vein, w=1, 0.2mm
straight, branching
reconcile, 81 →
251

Fresh to
slightly altered

23-25 fracture, w=1,
straight, 62 → 015

VEIN W/ ALTERED
OLIVINE AUREOLE
30.5-37 conjugate vein,
w=2, 1.5mm straight
60 → 186
58 → 226

46 fracture, w=1, straight
88 → 182

46-52 vein, w=1, 0.7mm
straight
90 → 220



VESICLES

0.5 %

9mm max
1mm mod

HIGH SPHERICITY
ROUNDED.

- Chunks

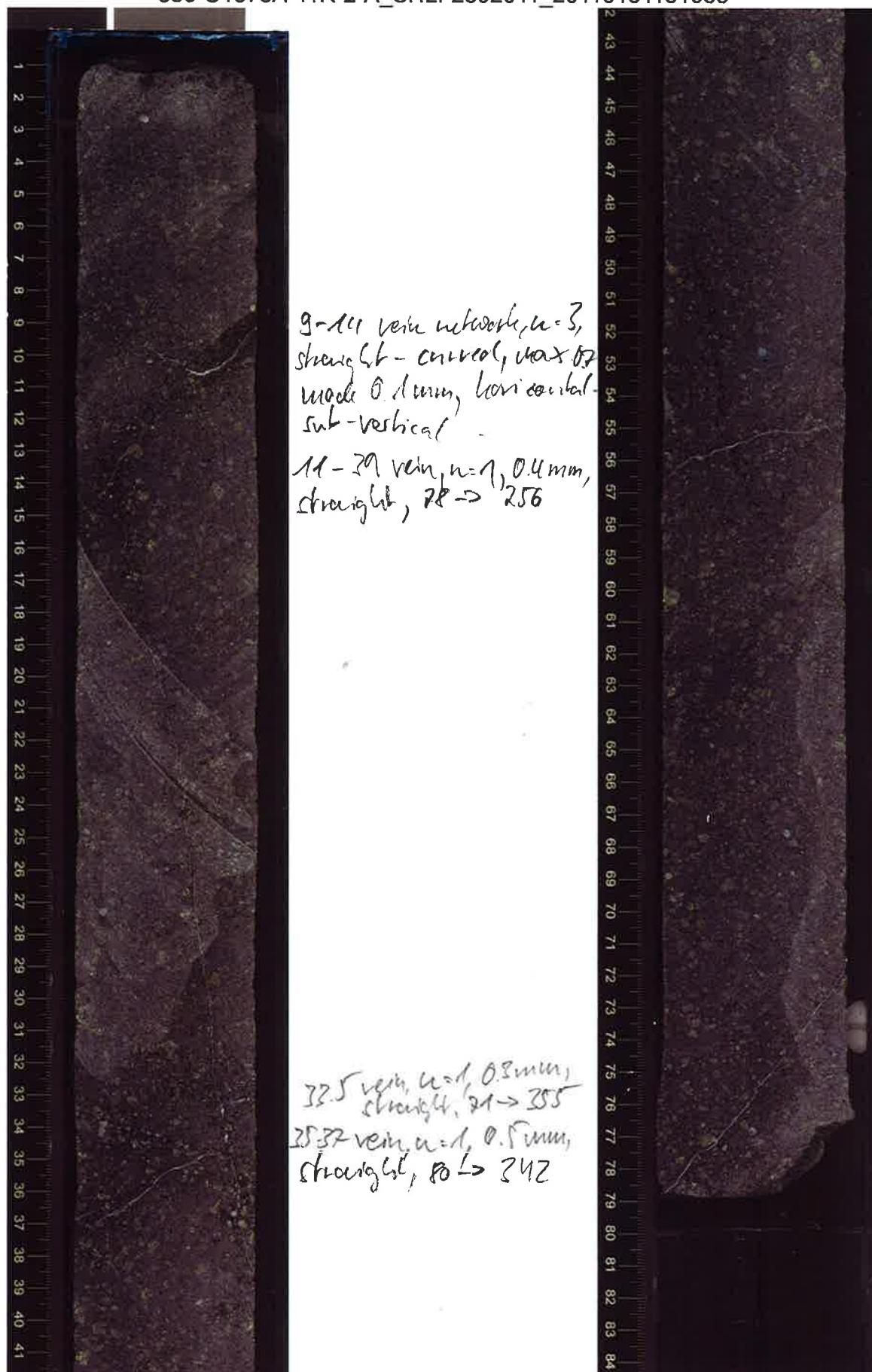
87 vein, w=1, 0.2mm, irreg.

89-91 vein, w=1, 0.2mm,
straight, 80 → 351

UNIT 15

Control
Pele 1

330-U1376A-11R-2-A_SHLF2892011_20110131131053



44-61 vein, n=1, 0.1 mm
straight, 26 → 268

55-57 vein, n=1, 0.3 mm, sharp
84 → 166

58-62 vein, n=1, 0.1 mm,
straight, → 275

72-79 vein, n=1, 0.4 mm
straight, stepped, 90 → 133

330-U1376A-11R-3-A_SHLF2892041_20110131131503

UNIT 15

Contd.
Piece 1a - V



1-21 vein, $w=1$, 6.2mm
straight, $52 \rightarrow 262$



20-22 vein, $w=1$, 1mm,
straight, $81 \rightarrow 244$

23-32 vein width, $w=2$,
max. 0.8mm, mode. 0.4
straight, $80 \rightarrow 055$

28-30 fracture, $w=1$,
straight, $90 - 158$

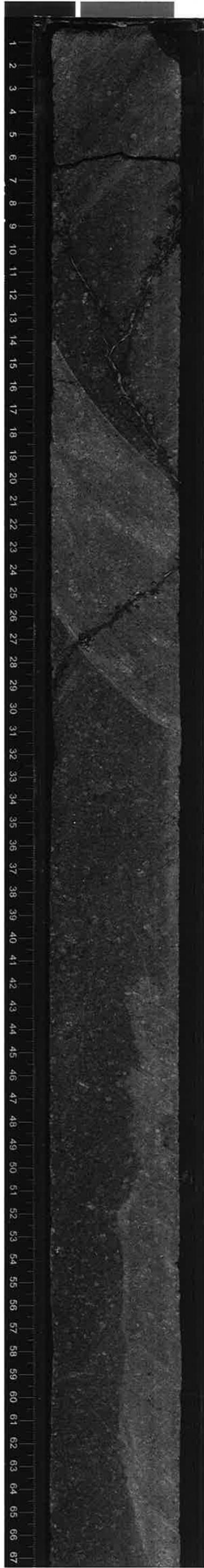
84.5-90 vein, $w=1$, 1.5mm
straight, $88 \rightarrow 049$

55-59 vein, $w=1$, 2mm
irregular, $79 \rightarrow 834$

57-60 vein, $w=1$, 1mm,
irregular, $80 \rightarrow 149$

UNIT 15
Cont'd

Piece 1a - 4



6.5 fracture, $w=1$, straight
88-186

8-14 vein, $w=1$, 3mm
irregular, 80-119

7-20 vein, $w=1$, 2mm,
irregular - straight, 79-
251

24-28 vein, $w=1$, 2mm,
irregular, 30-150



69-74 fracture, not
straight, 85-141

79-86 vein, $w=1$, 0.6mm,
irregular, 90-242

83.5-88 vein, $w=1$, 0.2mm
83-214 straight

86-91 vein, $w=1$, 0.1mm,
81-188 straight

104-113 vein, $w=1$, 1mm,
straight, 69-657

121-127 vein, $w=1$, 0.1mm
straight, 70-308

UNIT 15

CONT'D

PIECE 1-6



17-22 vein, n=1, 4mm,
straight, 81 → 242

connected?
✓

24-30 vein, n=1, 4mm
straight, 81 → 134



88-103 vein, n=1, 1mm,
straight, 80 → 258

106-109.5 vein, n=1, 0.1mm
straight, 70 → 153

68-72 vein, n=1, 0.2mm
straight, 56 → 113

UNIT 15

Cont'd

PIECE 1-13



39-45 vein, $n=1$, 2mm,
irregular, $g0 \rightarrow 240$

48-49 vein, $n=1$, 0.3mm
straight, $b0 \rightarrow 192$

53.5-57 vein, $n=2$, 0.1mm, branched
 $55 \rightarrow 086$

67-75 vein, $n=1$, 0.1mm
straight, $88 \rightarrow 055$

71-76 vein, $n=1$, 0.1
straight, $82 \rightarrow 242$



79-87 vein, $w=1$, 2mm,
irregular, $86 \rightarrow 066$

97-99 vein, $w=1$, 0.2mm
irregular, $71 \rightarrow 169$

135-142 vein, $w=1$, 0.1mm
straight, $88 \rightarrow 089$

UNIT 15

CONT'D.

la - 4c 0-128.5
43cmMASSIVE BASALT
LAVA FLOW

0% PLAGIOCLASE

10% OLIVINE

EUMERAL FRESH
SLIGHTLY ALTERED IN PLACES
8mm / 4mmCOMPLETELY ALTERED NEAR
VEINS/FRACTURES, ALTERATION↓ WITHIN 10mm OF
VEIN/FRACTURE

4% PYROXENE

SUBMERAL, FRESH
6mm / 3mmD HIGHLY OLIVINE -
AUGITE PHILIC BASALTMEDIUM GRAY
FINE-CRANED, 0.2mm

VESICLES:

0.5%

HIGH, ROUNDED

1.5mm, 0.5mm

2-15 vein, n=1, 0.1mm

straight, 83→288

10 Radial, n=1, straight

12 fracture, n=1, straight
90→179

8mm / 4mm

straight, 90→168

76-79 fracture, n=1, straight

83→154

86 vein, n=1, 0.1mm,
straight, 31→18299-103 vein, n=1, 0.1mm,
straight, 29→28436 vein, n=1, 0.1mm, straight
Non-oriented31-44 vein, n=1, 0.2mm
straight, 51→260

Sect 1-5
Fresh to
slightly altered
 Olivine fresh
 except where
 adjacent to pyroxene
 and partially altered
 to ground by
 Fe + calcite

62-65
fracture, n=1, straight
91→154

UNIT 15

CONT'D.

REC# 1a-2



27.5-31 vein, n=1, 1mm,
straight, 54 → 212

36-38 vein network, n=2
0.8mm, branched, 80 →
350

41
vein, n=1, 0.1mm,
straight
76 → 358

58-66 vein, n=1, 0.1mm
straight, 88 → 312

57-60 fracture, n=1, fracture
45-039

64-285 vein, n=1, 0.1mm
straight, 50 → 270



78-89 vein, n=1, 1mm,
straight, 69 → 247

82-92 vein, n=1, straight,
80 → 238

102-106 vein, n=1, 0.1mm
straight, 60 → 140

127-132 vein, n=1, 0.1mm
straight, 88 → 329

330-U1376A-12R-3-A_SHLF2893161_20110131185324

UNIT (15) CONTD

PIECE 1-8



1-6 vein, n=1, 0.1mm
straight, 88-134



67-70 vein, n=1, 1mm,
straight, 80-201

19-21 vein, n=1, 0.1mm
irregular



55-5 vein, n=1, 0.2mm
straight, non-orient.

117-128 vein, n=1, 0.1mm
irregular, 81-1024

UNIT 15

CONT'D.

PIECE 1 - 7



1-4 vein network
n=4, 0.2mm,
straight



86-87 vein, n=1, 1mm,
straight, 89→241

93-97 vein, n=1, 0.1mm
straight, 89→222

34-41 vein, n=1, 1mm
straight, 86→240

51-58 vein, n=1, 0.8mm
straight, 69→337

UNIT 15 onto
PIECE 1a-16

330-U1376A-12R-5-A_SHLF2893221_20110131190228



12 vein, $w=1, 0.7\text{mm}$,
straight, 166
2-3.5 vein, $w=1\text{mm}$,
~~slightly~~
 $79 \rightarrow 172$
7-11 vein, $w=1, 1\text{mm}$
straight, $30 \rightarrow 040$
a wave form
15-17 vein, $w=1, 0.5$
curved, $60 \rightarrow 342$



22-28 vein, $w=1, 0.1\text{mm}$ -
straight, $89 \rightarrow 125$
28-30 vein, $w=1, 0.1\text{mm}$
straight, $64 \rightarrow 182$
32-42 vein, $w=1, 1\text{mm}$,
straight, $90 \rightarrow 122$