

TYPE 1 CAST
4-18



TYPE 5 CAST
26-29

TYPE 3 CAST
39-61

Structure 46-36
vein network, c. 4um
268/50

SAMPLE

2x geopetal
azimuth 180°

TYPE 6
(SEE NEXT
CORE)



TYPE 2 CAST
76.5-80.5

TYPE 3 CAST
84-86

TYPE 4 CAST 87-90.5

DISTINCTIVE FEATURES
- PYROXENE AGGREGATES,

DESCRIPTION

- MED. GREY

- APHANITIC

- OLIVINE → COMP. ALTERED

→ MAX 2MM

→ MODAL 0.5MM

- PYROXENE → FRESH

→ MAX 3MM

→ MODAL 1MM

- AGGREGATES,

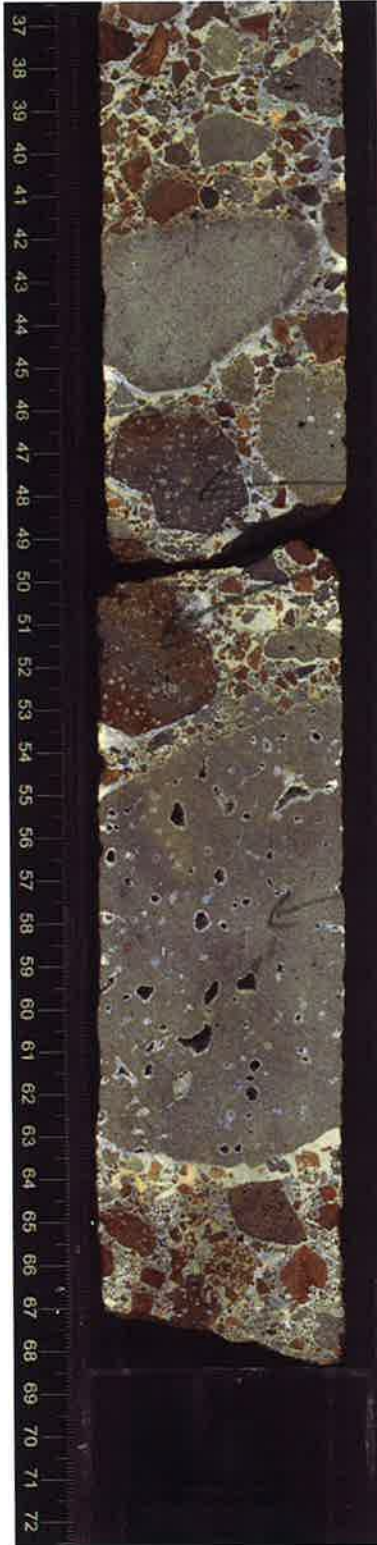
- NO VESICLES,

TYPE 6 (SEE NEXT
CORE)

330-U1372A-4R-4-A_SHLF2683811_20101222195601



TYPE 5
CLAST
17-19.5



TYPE 5 46.5-49
CLASTS 49-54

TYPE 1 CAST
51-62

ALTERATION
PEOPLE!

330-U1372A-5R-1-A_SHLF2684031_20101222211701

0-12 CM
MANGANESE
OXIDE CRUST

TYPE 4 CLAST
10.5-13
plus contains pyroxenes
PYROXENES
- MAX 2mm
- MODAL 1.5mm
- 3%

TRANSITIONAL

34.5-120
non-oriented,
single vein

TYPE 3
CLASTS.

47-48 vein,
single, straight, non-oriented
49-49 fluid
vein, straight
single feature
52-64 vein
network, non-
oriented straight
quartz.

AXRAY



joint
non-
oriented

cc vein
straight
single
386/76

91-99
2 veins,
1mm straight

TYPE 3 CLAST

↑
103-106
TRANSITION
ZONE
↓

TYPE 1 CLAST

63-65 joint, non-oriented

74-78.5
single vein, irregular,
non-oriented

92-107
branched joints, straight,
sigmoidal, non-oriented

Structure 104-120
non-oriented vein
network, catocorrocted
irregular



Geopetal
in type1 clast
azimuth 086°

TYPE 2
CLAST

TYPE 1
CLAST

TYPE 3
CLAST

TYPE 2
CLAST

TYPE 1
CLAST

Qz58
joint network, irregular
non-oriented

TYPE 1
CLAST
dark patches
are damp





TYPE 1 CLAST

geopetal azimuth 176

TYPE 5 CLAST

TYPE 6 CLAST

LARGE CPX CRYSTAL

TYPE 2 CLAST

TYPE 1 CLAST

TYPE 5 CLAST

124-132 branched pyrox w/ hornblende non-overhead



geopetal
amygdalites
azimuth ~ 180

TYPE 5
CLAST

TYPE 5
CLAST

TYPE 1
CLAST

TYPE 6
CLAST

TYPE 6
CLAST

TYPE 3
CLAST

TYPE 3
CLAST

TYPE 1
CLAST



TYPE 3
CLAST

TYPE 1
CLAST



TYPE 3
CLAST

TYPE 2
CLAST



TYPE 3
CLAST

TYPE 1
CLAST

TYPE 1
CLAST



TYPE 3 CLAST

TYPE 3 CLAST

TYPE 2 CLAST

TYPE 3 CLAST

TYPE 2 CLAST

TYPE 3 CLAST

TYPE 1 CLAST

TYPE 2 CLAST

TYPE 1 CLAST



highly altered vesicles w/ calcite

moderately altered vesicles w/ ~20% calcite

moderately altered minor calcite infilling of vesicles



TYPE 1
CLAST

TYPE 3

Slightly
oliv 100% altered
minor amounts of
calcite in vesicles

TYPE 3 +
TYPE 1

Slightly altered
oliv 100%
minor calcite in vesicles

TYPE 1
CLAST

TYPE 2

100% calcite
infilling vesicles

50% of vesicles
infilled w/
calcite

Slightly
altered

TYPE 3
(with a few olivines
~1%)

TYPE 2

100% calcite
infilling
vesicles

TYPE 3
CLAST

Slightly altered
oliv 100% altered

moderately altered
oliv 100%

TYPE 3
CLAST

TYPE 2

~40%
calcite
infilling
vesicles

moderately altered

geopetal
amygdals
azimuth 175°
moderately
abundant
one on
cut surface
two on
outer surface
TYPE 1
~10% of volume
of vesicles
by volume

TYPE 1



TYPE 3

TYPE 3



moderately abundant

moderately abundant

Slightly altered

TYPE 3



TYPE 2

TYPE 6

Slightly altered

TYPE 3



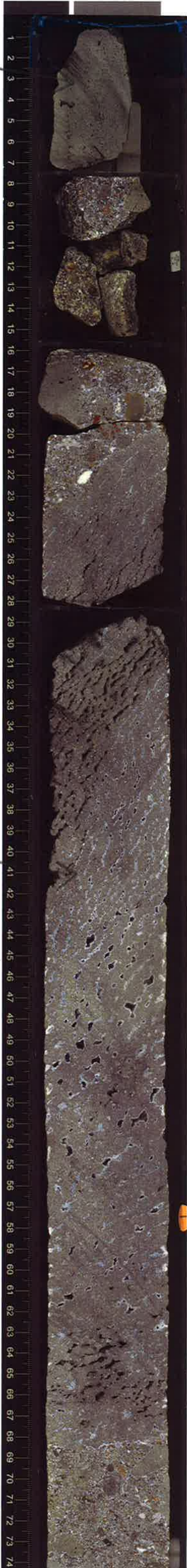
moderately altered

Slightly altered

TYPE 3

TYPE 1
0-7

open
veinlets
slight alteration



TYPE 1
19.5-68.5

veinlets
partially
filled w/
calcite
moderate
alteration

open
veinlets



open veinlets
slight alteration

TYPE 1
81-94.5

moderate
alteration

TYPE 2
99-111

TYPE 2
109-112

open veinlets
slight alteration

TYPE 1
114-129.5

open veinlets are
filled w/
calcite
slight
alteration

TYPE 1
129-142.5

TYPE 1
0-25

Slight
alteration
50% of
vesicles
filled w/
calcrete

1-24 elongated
vesicles, 130^{μ}

9-13 stage vein 225/70
isolated, irregular

TYPE 2
27-37

moderately
alteration
open vesicles

TYPE 1
39.5-46.5

~40% of
vesicles
filled w/
calcrete
TYPE 1/3
49-57

TYPE 1
65-75

25% of
vesicles
filled w/
calcrete
slight
alteration

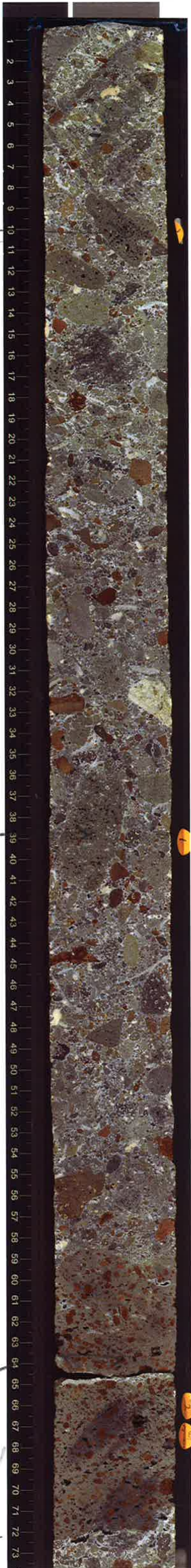
TYPE 2
86.7-93
moderate
alteration

TYPE 6 (w/olivine)

96-101
moderate
alteration
10% of vesicles w/
calcrete

TYPE 3
108.5-112.5
moderate alteration

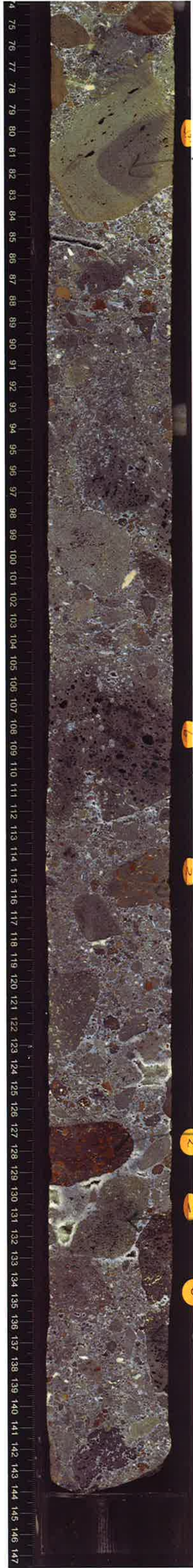




TYPE 1
8-11.5
open vesicles

TYPE 2
35-41
50% filled w/ calcite

TYPE 2
(w/pyroxene)
58-72
50% of vesicles filled w/ calcite moderately abundant



TYPE 1
76-84
open vesicles moderately abundant

TYPE 6
(w/olivine)
105-112
30% of vesicles w/ slight alteration
TYPE 2
113-116

TYPE 2 (w/pyroxene) moderate alteration
126-129

TYPE 1
129-133
(w/large olivine)

TYPE 6
130.5-146
slight alteration

1-6
single, branched vein
iron-oriented
brown clay?
in vein

9-19
single, straight
vein 90/60
slight alteration
brown clay

7-83 vein
network
steeply dipping
irregular

92-93
single branched
vein
008/60

calcite filling
vesicles

NEW

Type 7

- DISTINGUISHING FEATURES
- RARE GLOMEROCRYSTS OF OL, PLAG. & PX,
- OCCASIONAL GLOMEROKS OF PX & PLAG.

- DESCRIPTION
- PHYRIC
- BRONNY-GREY
- FINE GRAINED
- OLIVINE → 0.5%
→ COMPLETELY ALTERED
→ MAX 1MM
→ MODAL 0.5MM
- PYROXENE → 1%
→ FRESH
→ MAX 1.5MM
→ MODAL 0.7MM
- PLAGIOCLASE → 1%
→ WEAKLY ALTERED
→ MAX 1MM
→ MODAL 0.5MM
- VESICLES → 0.5%
→ ELONGATE
→ SUB ANGULAR

TYPE 6

TYPE 2

TYPE 1

Slight alteration
open vesicles

TYPE 2

Start of v.
large clast slight
type 2 alteration

7-36
joint network
non-oriented
irregular

78-41 calcite
vein ~ 4mm thick
single straight vein
324/22

band of vesicles
steeply dipping 100/90

96(4)
- 72(5)
elongated
vesicles
020

73-149

ALL SAME V. LARGE CLAST TYPE 2

Weakly altered
olivine
129-149

