IODP-MSP (Exp. 357) VISUAL SECTION UNIT DESCRIPTION

Exp.	Site	Hole	Core	Type	Section
357	76	B	8	R	1

Observers: PM Shift

[cm] | Scanned Image | Unit | Sketch | Lithology | Alteration | Veins and Structure | Description

0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80

TS ← REQUESTED

Unit 1: 0-50 cm
rubble of PORPHYROCLASTIC SERPENTINIZED HARZBURGITE
relic opx 1mm-8mm, most <4mm
mode: 5-10%
AND TALC-AMPHIBOLE SCHIST/ALTERATION
variably oxidized CHLORITE

SAME AS UNIT 1

Not Schistosity

HERE WE DON'T SEE TEXTURE DUE TO THE OXIDATION

porphyr. serp. harz

TSB

melt intrusion with late meta-somatism

coherent piece of PORPHYROCLASTIC SERPENTINIZED HARZBURGITE
variably oxidized
(same as above)

THIN SECTION REQUEST
Nom 42/3
+XRD

fractures: very few
Schistosity: 1 in amphibole veins (27-50) sub vertical.

1

2

090/20°
dark green
flat vein
cracked open

Unit 2: 50-82 cm
GABBROIC INTRUSION WITH TALC-AMPH-CHLORITE ALTERATION

gabbroic melt-intrusion

increasing metaso-matism

tale-amph-chlorite schist

MIX PROTO OR ONLY GB ?

fault zone

schistosity ~3 with rather angular gabbroic clasts.

drilling induced rotation probable between above and below 95 cm.

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85
90
95
100
105
110
115
120
125
130
135
140
145
150
155

Rotated during chilling?

3

drilling induced rotation?

STRONG OXIDATION ON THE MESH

LATE CC VEINING

SOME METASOMATIC VEIN THAT ARE USED BY CCLATE VEINS

Unit 3: 82- end: HIGHLY OXIDIZED PORPHYROCLASTIC SERPENTINIZED HARZBURGITE
→ relic opx = bastite (green)
volume of mesh texture decreases towards the bottom of the core
opx-poor
5 mm% bastite 2-5mm, most ≤ 2 mm
more altered than unit 1
highly oxidized

lots of open fractures and carbonate veins; thin-white veins-
below 111 cm.
dominantly 90-15°