

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

Exp. 357	Site 76	Hole B	Core 5	Type R	Section 1
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Observers

[cm]	Scanned Image	Unit	Sketch	Lithology	Alteration and Veins	Structure	Description
0-35							
35-72		1		SERPENTINIZED DUNITE	Serpentinization: high degree. No relic of primary. Moderate sheared mesh texture. No BASTITE. Fracture network exploited by veins - very irregular but mostly sub-horiz. Late cracks open / 090/70 (cp) 090/30 + irregular.		35-72 cm: Unit 1: SERPENTINIZED DUNITE mm-sized & partially oxidized coherent piece shearing is coherent with the sheared sheared intrusion after -> ? ok ? veins in mesh (black) very fine network appearance of foliation/schistosity
72-80		2		CONTACT BETWEEN SERP AND INTRUSION (2cm) YELLOW ZONE FINE-GRAINED BLACK ZONE WITH CLANGPTED ZONE	Late generation of vein with orientation 56-63 SMALL DISCONTINUOUS INTRUSION? LATER CRASS CUT BY GREENISH TALC + SERP LATEST CC VEINS schistose zone w AF/light catclases of darker grains		Unit 2: 72cm-end MAGMATIC INTRUSION coherent piece INT 1-5 IRR NET XCUT PARTIAL UNI MASJ sharp contact, irregular INT 3-5 IRREG BRA/NET UN/BA MA.

XRD Brown
XRD Green
XRD Purple

Shipb. Sampling done

FEW LATE TALC-SERP VEINS

Schistose & deformed (?) apparent catclases of black grains

ER

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Observers PK Shift

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81-82		2				Schistose 270°/40	Unit 2 continued
83-85		3		serpentinized harzburgite	MESH-TEXTURE RED NO SHEAR STRONG OXIDATION ①		Unit 3: PORPHYROCLASTIC SERPENTINIZED HARBURGITE basaltic w/ relic opx? max. grain size 1.5x0.5 cm most < 0.5 cm 5-10% opx oxidized, fractured
86-90		4			alteration affect the external part of the fragments → greenish mineral (talc) + oxidation in the central part	Shattered schist Tr-Tc	Unit 4: MAGMATIC INJECTION + ALTERATION rubble w/ clast of porphyroclastic serpentinized harzburgite
91-95		5		serpentinized harzburgite	= to ①		Unit 5: CLAST OF PORPHYROCLASTIC SERPENTINIZED HARBURGITE SAME AS Unit 3
96-100							INT 2 IRR / NET / SI BR / UN MASS
101-105							INT 3-4 IRR SI / BR / PA UN MASS
106-110							INT 3 IRR / SI / ST BR / PA UN MASS
111-115							
116-120							
121-125							
126-130							
131-135							
136-140							
141-145							
146-150							
151-155							

Ship's sampling done