

shipboard  
sampled

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

D/S entered

Exp.	Site	Hole	Core	Type	Section
357	69	A	10	R	2

Page: 1/1

Observers  
AAA m Shift

[cm]	Scanned Image	Unit	Sketch	Lithology	Alteration and Veins	Structure	Description																										
0		1		<p>MPY-rich 1cm x 1cm up to 25-30% serpentized horzburgite</p>	<p>dusk red, TA: S 80% ox 20% IA: S 10% ox 20%</p>	<p>V<sub>0</sub>: 90-70° Px-rich layer: 2.3cm-thick w/ roughly // to contact. Contact is gradual and 270-10°</p>	<p>① is the continuity of the previous core Serpentinized Horzburgite. • approx 25% pyroxene relicts. • pyroxene (apx) relicts to roughly 1cm, appear undeformed/proto granular - little rounding oxidized serpentinite matrix • mesh texture most notable around veins.</p>																										
5								2	<p>Serpentinized horzburgite</p>	<p>Serp., mgst, ox Same for units 1 or 2</p>	<p>0-10 cm: low frequency 10-20cm: lots of this veins: (microscopic) V<sub>1</sub>: 270-40 V<sub>2</sub>: 90-40</p>	<p>below 19cm, the V<sub>2</sub> family becomes arrays of anastomosing occ. xip veins. Contact with dunite gradual over unit 2. no clear orientation</p>																					
10													3	<p>Serpentinized dunite.</p>	<p>green, grey TA: S 50% ox 5% IA: S 10% ox 5% Serp., mgst, chromite, oxides</p>	<p>V<sub>3</sub>: 270-40 V<sub>4</sub>: 270-40 V<sub>5</sub>: 90-15°</p>	<p>Serpentinized Dunite • equant chromite grains to 3mm, average 1.5mm. • variable alteration in vein selvages • mesh-texture, less oxidized serpentinite matrix.</p>																
15																		<p>XC. xip veins?</p>	<p>VEINS</p>	<p>V<sub>0</sub>: 0-8 cm interval white, straight, single, massive, <sup>banded</sup> composite carbonates.</p>													
20																					<p>V<sub>1</sub>: interval 130-147 network of white, <sup>sigmoidal</sup> anastomosing, massive, composite veins</p>												
25																						<p>V<sub>2</sub>: green and white serp. and carb. veins crosscutting V<sub>1</sub> orientation</p>											
30																							<p>V<sub>3</sub>: 20-25 cm white, greyish red, straight, single, polycrystalline composite. Serp., carbonates, mgst-rich fragments of first serp. vein included in carbonates.</p>										
35																								<p>V<sub>4</sub>: white, ice, branched, massive, composite, carbonates.</p>									
40																									<p>check with XRD - could be leucocratic magmatic vein with late carbonates at contact.</p>								
45																										<p>V<sub>5</sub>: red black white.</p>							
50																											<p>V<sub>6</sub>: carb network parallel to V<sub>2</sub></p>						
55																																	
60																																	
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80																																	