

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

Exp. 357	Site 76	Hole B	Core 10	Type R	Section 1
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Observers
AAAM \$h:ft

[cm]	Scanned Image	Unit	Sketch	Lithology	Alteration and Veins	Structure	Description
0-15		1		Porphyroclastic Serpentinized Hornblende Rubble	dark green to dark red variably vened serpentinite rubbles piece of carbonate vein (3mm wide)		
15-30		2		Porphyroclastic Serpentinized Hornblende	dark green to dark red TA: Serpentinization 55% oxidation 5% IA: Serp. 30% ox. mod. OA: Serp. p. ox. l. serp., mgl, oxides (mesh texture visible)	weak shaly porphyroclastic fabric They are (D.K.E.W.) have a look here.	<p>② Porphyroclasts of opx to 5x10mm, average of around 5mm along long axis. Approx 20-25% - generally rounded porphyroclasts and commonly altered around the edges. Mesh texture serpentine matrix</p> <p>a) Rubble fragments show more extensive alteration of porphyroclasts.</p> <p>V1: white, orange, irregular, branched, massive, composite - Carbonate ± Serpentine ± oxides infill.</p> <p>V2: white, orange, irregular, network, massive, composite - Carbonate ± Serpentine ↳ occur as "patches"</p> <p>V3: pale green, irregular, branched, massive, composite - Serpentine, possibly contain some sulfides</p> <p>V3 crosscuts V0 and V2 relationship V1-V2 unknown V1 crosscuts V0</p>
30-45		3		Porphyroclastic serpentinized Hornblende Rubble			
45-55		4		Serpentinized Dunite	dark green to dark red IA: S 95% ox 5% IA: S low p ox 15% P (mesh texture visible) Serp., mgl, oxides		<p>④ Rare porphyroclasts of opx in mesh-texture serpentine after an olivine-dominated protolith - chromite to 2.2mm (@ 52cm) - @ 61m chromite clasts aligned in fabric (0.5mm scale)</p>
55-65		5		Porphyroclastic serpentinized Hornblende	Same as unit 1	and here	<p>V4 = orange to white, irregular, branched, massive, composite - Carbonate, possibly some oxides, possibly some sulfides</p> <p>interval 56-60 cm. - possible fault zone dips 15°/20° multiple, parallel veins - white, green, black - irregular, anastomosing, massive, composite - Carbonates, amph, chl, oxides, Serpentine</p> <p>V5 (67cm) white, straight, single, massive, uniform - Carbonates ↳ small composite</p> <p>V6: white, irregular, single, massive, composite - Carbonates, possibly containing sulfides</p>
65-75							
75-80							






also 75cm the rock is weakly oxidized

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Observers AAAM Shift

[cm]	Scanned Image	Unit	Sketch	Lithology	Alteration and Veins	Structure	Description
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 1 2 3 4 5 6 7 8 9 10</div> <div style="margin-bottom: 10px;">85</div> <div style="margin-bottom: 10px;">90</div> <div style="margin-bottom: 10px;">95</div> <div style="margin-bottom: 10px;">100</div> <div style="margin-bottom: 10px;">105</div> <div style="margin-bottom: 10px;">110</div> <div style="margin-bottom: 10px;">115</div> <div style="margin-bottom: 10px;">120</div> <div style="margin-bottom: 10px;">125</div> <div style="margin-bottom: 10px;">130</div> <div style="margin-bottom: 10px;">135</div> <div style="margin-bottom: 10px;">140</div> <div style="margin-bottom: 10px;">145</div> <div style="margin-bottom: 10px;">150</div> <div style="margin-bottom: 10px;">155</div> </div>		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">5</div> <div style="margin-bottom: 10px;">6</div> </div>		<p>Serp. Horiz.</p> <hr/> <p>Fractured Serpentinized Dunite</p>	<p>dark red to dark green, white</p> <p>unconsolidated serpentine, fragments, mesh texture visible, oxidation not visible on the core face but orange color visible on the face of fragments that moved</p>	 <p>V₂</p>	<p>white, irregular, branched, massive, uniform. Carbonates</p> <p>⑥ See description for ④</p> <ul style="list-style-type: none"> - possible chromite - porphyroclasts of orthopyroxene generally not observed in this section - Note: alteration and fracture may have obscured opx?