

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

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Exp. 357	Site 76	Hole B	Core 4	Type R	Section 1
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Observers AAAS

[cm]	Scanned Image	Unit	Sketch	Lithology	Veins and Alteration	Structure	Description	
0					<p>① pale green and black stripes TA: TAC 100% FA: TAC 100% DA pervasive talc, amphibole, chlorite, oxides ↳ Talc-amphibole schist ② dark red ↳ serpentine</p>	<p>Schistose ① Tc-Tr ② Brittle fractures in undeformed clast</p>	<p>① Talc-schist ② color fragment - often dark pic-bearing gabbro? * Some fragments of oxidized dolerite possible.</p>	
5								
10								
15								
20								
25					Rubble of talc-schist, serpentine and (meta)gabbro			
30								
35								
40								
45								
50								
55					magmatic veins	dark grey to dark red TA Serp 80% ox 20% FA: serp 100% ox 25% DA: ox 100% ox. loc. Serp: magnetite oxides	Shattered Drill induced	
60					Oxidized Serpentinized Hornblende			
65								
70								
75								
80								

Rubble with

- schistose tc-tr clasts
- darker clasts (serpentinite)?
- with ^{few} fractures (brittle)
- Not coherent in appearance

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[cm]	Scanned Image	Unit	Sketch	Lithology	Veins and Alteration	Structure	Description
85			<p>Serpentinized hercynite - oxidized</p>	<p>① 74% - opx 25% - oxide (chromite) 1% (Serpentine)</p> <p>① network of black veins Peridotite w/ mesh-texture</p> <p>① - cross-cut by irregular, thick magmatic veins (up to 1cm) with cross-cutting textures & complex set of veins (A-E in descrip @ 090/080)</p>	<p>① 7mm vein w/ cross-veins, light green</p> <p>② 230/80 & subhorizontal cross-cutting</p> <p>③ fine white fractures/veins @ 090/0</p> <p>④ drilling-induced isolation of this unit, 180° - continuity with unit 2</p> <p>⑤ Lower unit w/ similar veins as above. Late fractures/veins subhorizontal veining, & subvertical fractures locally displacing veins (N 1mm displacement)</p>	<p>② Lower unit w/ similar veins as above. Late fractures/veins subhorizontal veining, & subvertical fractures locally displacing veins (N 1mm displacement)</p> <p>③ Amphibole: Brown lithology with large relict black pyroxene (total to 2cm, veined and altered). - contains some oxides - central zone is lighter, contains some talc.</p> <p>③ Magmatic vein ~ 6cm thick cross-cut by 2 set of thick (2-3mm) green to pale green veins & late irregular network of black hair-line fractures/veins</p> <p>④ Same veining as above in serp. hg.</p>	
90			<p>Serpentinized dunite (with chromite grain) 5mm x 5mm - oxidized.</p>	<p>② fracture/veins very fine pale-green (serp.)</p> <p>④ 090/20</p> <p>⑤ Sub-vertical early veins</p>	<p>② 090/20</p> <p>⑤ Sub-vertical early veins</p>	<p>② 090/20</p> <p>⑤ Sub-vertical early veins</p>	<p>② 090/20</p> <p>⑤ Sub-vertical early veins</p>
100			<p>Magmatic vein 6cm thick</p>	<p>veins thick green pale green 090/0</p>	<p>veins thick green pale green 090/0</p>	<p>veins thick green pale green 090/0</p>	<p>veins thick green pale green 090/0</p>
105			<p>Talc-fels - veined, altered zone</p>	<p>Altered Serpentinized Hercynite</p>	<p>Altered Serpentinized Hercynite</p>	<p>Altered Serpentinized Hercynite</p>	<p>Altered Serpentinized Hercynite</p>
110			<p>Dark-red strong oxidation (pervasive) = to previous unit</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>
115			<p>Metabasite crosscut by late vein (TC?)</p>	<p>Talc-amph fels with amphibole protoblasts No shear</p>	<p>Talc-amph fels with amphibole protoblasts No shear</p>	<p>Talc-amph fels with amphibole protoblasts No shear</p>	<p>Talc-amph fels with amphibole protoblasts No shear</p>
120			<p>Dark-red strong oxidation (pervasive) = to previous unit</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>
125			<p>Dark-red strong oxidation (pervasive) = to previous unit</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>
130			<p>Dark-red strong oxidation (pervasive) = to previous unit</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>
135			<p>Dark-red strong oxidation (pervasive) = to previous unit</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>
140			<p>Dark-red strong oxidation (pervasive) = to previous unit</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>
145			<p>Dark-red strong oxidation (pervasive) = to previous unit</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>
150			<p>Dark-red strong oxidation (pervasive) = to previous unit</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>
155			<p>Dark-red strong oxidation (pervasive) = to previous unit</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>	<p>Alteration zone between serp and metabasite fluid input</p>

We have different opinion about UNIT 5?