

IODP-MSP (Exp. 364) VISUAL SECTION UNIT DESCRIPTION

Exp. 364	Site 77	Hole A	Core 176	Type R	Section 2
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Date 4.10.16	Time 8:00	Observers MP ARLENT
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[cm]	Image	Unit #	Lithology	Veins and Alteration	Structures	Core Disturbance	CT	Description
0								0-22cm multiple, discrete sets of shear fractures, ~cm spacing
10								15cm - Green filled open fracture is truncated by sealed fractures.
20								22cm - Margin of melt unit, sub-cm fractured zone of granite
30								22cm and 28cm melt granite contacts have ~1cm of dextral displacement by sub-vertical shear fault, fracture does not go through melt unit. chilled margin is not truncated by fracture.
40								28-45cm - dense fracture network with some shear faulting
50								45-63cm - fracture network includes diffuse black/grey fill
60			1	Granite				58-80cm - less dense fracture network mostly sub-vertical shear faults
70								80-106cm - large Carn clastic zone yellow-brown, with cm-sized sub-rounded clasts
80								97cm - sinistral shear fault. sub-horizontal
90								97-107cm - cataclastic grades into pervasive shear zone
100								106-116cm - 2-3mm thick cataclastics and 119-121cm
110								108-125cm - dark green fill shear fracture network
120								120-130cm - Cataclastic zone is slightly lower D
130							130-140cm - Cataclastic zone is slightly lower D	
140							140-160cm - Dark grey/black to brown melt with partially digested granite, irregular contact. (max altered, grey-greenish and porous at the lower contact).	
150							Coarse-grained granite with K-feld (3cm), plag (1.5cm), Qtz (1.5cm), and biotite (20,5cm) occurring only in lower part of the section. Unidentified accessory mineral (20,5cm) [dark grey] / possible altered biotite? Pervasively fractured and altered. / cataclastic	
160								