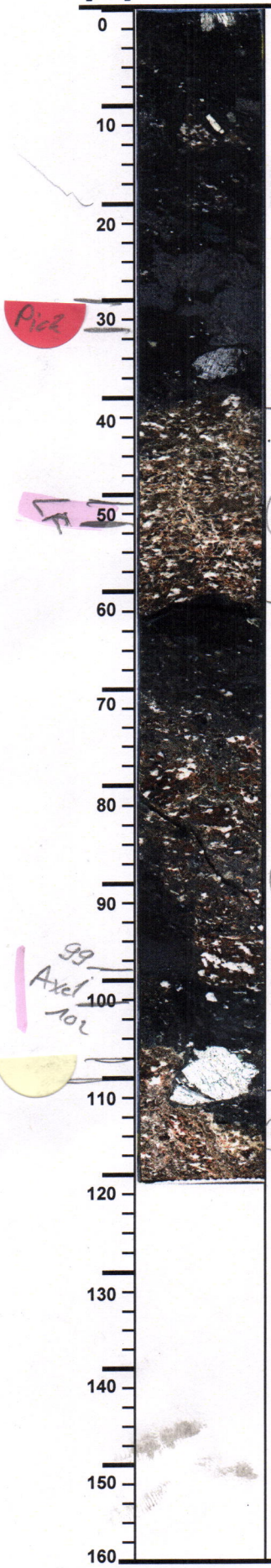
IODP-MSP (Exp. 364) VISUAL SECTION UNIT DESCRIPTION

Exp.	Site	Hole	Core	Type	Section
364	77	A	295	R	2

Date	Time	Observers
12.10.16	8:45	TP, AR, LF, NT



Description

(1) Impact-melt (clast-rich) rock. Clasts up to 8 cm, angular to subrounded. Melt is black. No vesicles. Some of the clasts have an irregular margin, in part assimilated by the melt. Clasts include ≠ types of basement rocks, gneiss, granite, dolerite, mafic rocks, etc.

@ 38-40 cm - Suevitic zone, ~2 cm thick at contact with granite clast

(2) Highly deformed granite, brown in color, with K-feld (up to 4 cm), plag (2,5 cm), qtz (1 cm), and biotite, rare, less than 0,5 cm. Cataclasite.

= clast.

Pervasive shear fracture network throughout

(3) Suevite with zones of impact melt rock (clast-rich), at 61-69 and around 100 cm; clasts larger than core Ø. Clasts are dominated by granite*, from rounded to angular in shape. Green alteration and locally sulfide crystals occur. *Other clasts include mylonite, gneiss, basement clasts, mafic rocks, etc.

Granite clast from 73-100 cm is pervasively brecciated with polymict material in the matrix

(4) see (2)

Upper contact of unit (4) perfectly matches the lower edge of granite clast from 73-100 cm. 12 cm of apparent dilation.