

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

Exp.	Site	Hole	Core	Type	Section
364	77	A	43	R	1

Date	Time	Observers
27/09/16	11:26	MW, MP, LF

[cm]	Image	Unit #	Lithology	Veins and Alteration	Structures	Distance	Core	CT	Description							
0		1	Suevite	-	-	-	-	-	0-20.5 ↑ F lithoclastic packstone - rvdstone							
11																mostly med-coarse sand size grains rounded to subrounded, some subang. grains
13																max @ base 7mm, subvertical pipe 15-13cm. More matrix rich @ base
20																20.5-38cm - ↑ F 20.5-25 - packstone w/ max clast size 5mm - mostly coarse-med sand. 25-38 rvdstone max clast 1.3cm, all rounded to subrounded
28.5																38-74cm - ↑ F 38-44 packstone, - mostly rounded to subrounded grains, a few subang.
31																44-74cm - rvd stone, rounded to subangular grains - max 1cm more matrix rich ~30-40% grains
50										2						74-147.5 - generally ↑ 74-88 - rvdstone max clast 2cm, 88-147.5 packstone w/ a few oversized clasts - max 7mm coarse tail grading
60																0-20 - Same as previous section; Small (<3mm) with a few (larger) clasts; Dominated by altered green glass clasts (more or less vesiculated) in similar proportions as previously.
70																"Subvent pipe" - Zone of increased porosity following a ~45° fracture. Presence in the surrounding area of vesicles/pockets partly filled with larger carbonate crystals - Cf. PTS 5 and 6 (post formation/deposition)
80																20-73 - Much larger clasts and more matrix
90																Large/dark grey melt (14mm) green glass carbonat melt carbonate (post) clast (10mm)
100																Transition based on matrix and size of clasts 30-40% matrix
110																+ a few dark clasts subangular to subrounded (3mm)
120																Fracture
130																Zone of increased porosity/associated B-CT and vesicles/pockets partly or fully with carbonate (large crystals) along elongated polymict (almost black) melt (?) with vesicles (filled) and clasts [all, size 31cm]
140								73-End - Same clast population as in previous sections [A few large (up to 20-100µm) randomly distributed empty vesicles (up to 3mm inside)]								
150								matrix change 50%								
160								CT; Dominated by DG (more light in the lower part of the core) + Two zones with B-CT and a few "elongated" light grey/w clasts * - specific melt clasts?								