

General Information			
Sample Name (IGSN)	EX1702-D11-4		
Describer	Kevin Konrad		
Sample Location	Seamount D		
Lithology prefix			
General Lithology	Basalt		
Texture 1	Heavily Altered		
Texture 2	Vesicular		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	30	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	70	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	40	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	60	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A grey-brown basalt with no observable phenocrysts. Alteration varies from moderate to heavy in handsample. Some, mostly unfilled, vesicles are observed.		
Thin Section Summary	A heavily altered basalt with regions of altered vesicular glass mixed with a plagioclase rich groundmass. One clinopyroxene grain and one plucked grain (likely olivine) are found in the thin section, may be an ankaramite. The glass regions are heavily Fe-Oxidized and contain no discernable minerals. Vesicles are mostly unfilled with the exception of some palagonite filled grains in the glass section.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	1			1			10	88
Present (%) [Pr]	0			0.5			8	35
Replaced / Filled (%) [Rf]	1			0.5			2	53
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	1.1			0.5			0.1	
Maximum Size (mm)	1.1			0.5			0.5	
Modal Size (mm)	1.1			0.5			0.3	
Shape	anhedral			subhedral			Subrounded	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments	Altered and plucked from the thin section			Altered with chunks of clay throughout			Mostly unfilled, higher density of vesicles in the glassy regions. Palagonite infill in glass region	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [GI]	MSTASIS [Ms]
Original (%) [Or]		30			10			60
Present (%) [Pr]		15			10			0
Replaced / Filled (%) [Rf]		15			0			60
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.2			0.05			
Maximum Size (mm)		0.25			0.1			
Modal Size (mm)		0.2			0.05			
Shape		subhedral			subhedral			
Habit		elongated						
Comments								Mixture of alteration products, maybe some iddingsite