

General Information			
Sample Name (IGSN)	EX1708-D4-1		
Describer	Kevin Konrad		
Sample Location	Sibeliuss Seamount		
Lithology prefix			
General Lithology	Basalt		
Texture 1	Altered		
Texture 2	Aphyric		
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 (%)	30	Check [ Or = Pr + Rf ]	OK
Total Groundmass Replaced (%)	70	Check [ Or = Pr + Rf ]	OK
Whole Rock Summary	A fine grained basalt with rare clinopyroxene macrocrysts. The sample contains occasional regions that are brown and very fine grained. Groundmass appears somewhat fresh with Fe-oxide alteration mainly around fractures and the rim. Sample has a 1.5 cm thick FeMn crust.		
Thin Section Summary	A fine grained basalt with plagioclase and rare clinopyroxene microcrysts. The groundmass consists of plagioclase grains and altered mesostasis. The veins throughout the sample appear to be palagonite infilled. Some plagioclase grains have sericite alteration. Fe-oxide alteration and palagonite more common near filled fracture.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [ Or ]								
Present (%) [ Pr ]								
Replaced / Filled (%) [ Rf ]								
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)								
Maximum Size (mm)								
Modal Size (mm)								
Shape								
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments								



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [ Or ]		30		10				70
Present (%) [ Pr ]		20		3				0
Replaced / Filled (%) [ Rf ]		10		7				70
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.05		0.05				
Maximum Size (mm)		0.25		0.25				
Modal Size (mm)		0.1		0.15				
Shape		subhedral		anhedral				
Habit								
Comments		Some sericite alteration.		Mostly talc altered				Alteration is mostly a grey mush. Fe-oxide and palagonite can be found near fractures