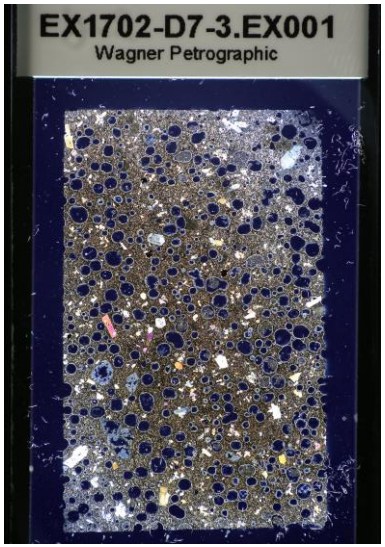
General Information			
Sample Name (IGSN)	EX1702-D7-3		
Describer	Kevin Konrad		
Sample Location	Moki Seamount		
Lithology prefix	Clinopyroxene-Olivine		
General Lithology	Basalt		
Texture 1	Vesicular		
Texture 2	Heavily Altered		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	80	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	20	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	10	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	90	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A fine-grained clinopyroxene phyric basalt with abundant vesicles. No significant Mn coating but a rind of alteration is present.		
Thin Section Summary	A clinopyroxene and olivine (serpentinized or replaced by zeolites) phenocrysts within a heavily altered mesostasis. Clinopyroxene grains contain sector zoning and a bluish extinction pattern indicating they're Ti-Augite. Groundmass consists of altered clinopyroxene and Fe-oxidized glass. Sample contains abundant large vesicles with palagonite rims.		

Whole Rock

Transmitted Light

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	5			10			40	45
Present (%) [Pr]	0			9			5	5
Replaced / Filled (%) [Rf]	5			1			35	41
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.5			0.2			0.2	
Maximum Size (mm)	1			1.3			0.75	
Modal Size (mm)	1			0.5			0.6	
Shape	anhedral			subhedral			rounded	
Habit								
Zonation Type				Sector				
Zonation Extent				Common				
Exsolution Type								
Special Features								
Comments	Completely replaced with a serpentine like alteration or pitted out.			Ti-Augite (blueish extinction)			Palagonite rims common	

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]				5	3		92	
Present (%) [Pr]				2	3		0	
Replaced / Filled (%) [Rf]				3	0		92	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)				0.01	0.01			
Maximum Size (mm)				0.2	0.1			
Modal Size (mm)				0.05	0.04			
Shape				subhedral	subhedral			
Habit								
Comments							Fe-oxide alteration or some palagonite around vesicles.	