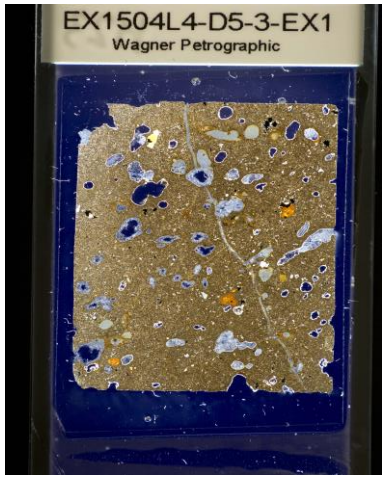
General Information			
Sample Name (IGSN)	EX1504L4-D5-3		
Describer	Kevin Konrad		
Sample Location	Johnston Seamounts-Deep Twin Ridge		
Lithology prefix	olivine		
General Lithology	basalt		
Texture 1	vesicular		
Texture 2	altered		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	2	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	98	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	2	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	98	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A fine grained basalt with some iddingsite grains throughout. Vesicles are elongated with zeolite infill. Sample contains a thin Mn crust.		
Thin Section Summary	A highly altered basalt with olivine phenocrysts that are completely recrystallized to iddingsite and a single clinopyroxene grain. Vesicles are semi-circular and are partly or completely infilled with zeolites. Groundmass consists of altered cpx, spinel and glass.		

Whole Rock

Transmitted Light

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	3			1			20	76
Present (%) [Pr]	0			1			5	2
Replaced / Filled (%) [Rf]	3			0			15	74
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.6			0.2			0.4	
Maximum Size (mm)	0.8			0.4			1	
Modal Size (mm)	0.8			0.4			0.8	
Shape	anhedral			subhedral			irregular	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments	Recrystallized to iddingsite						Filled with zeolites	

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]				10	5		85	
Present (%) [Pr]				3	5		0	
Replaced / Filled (%) [Rf]				7	0		85	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)				0.02	0.05			
Maximum Size (mm)				0.1	0.1			
Modal Size (mm)				0.1	0.08			
Shape				subhedral	subhedral			
Habit								
Comments								