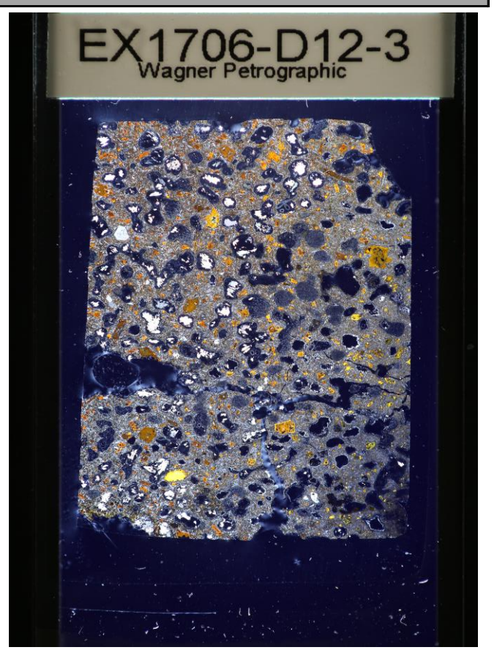
General Information			
Sample Name (IGSN)	EX1706-D12-3		
Describer	Kevin Konrad		
Sample Location	Sleep Hallow Seamount		
Lithology prefix	olivine		
General Lithology	basalt		
Texture 1	altered		
Texture 2	vesicular		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	40	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	60	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	50	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	50	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A variable altered ankaramite with iddingsite recrystallization and relatively fresh clinopyroxene. Sample contains phosphorite filled vesicles. The sample becomes progressively glassier and more altered towards the edge of the basalt. The sample has botryoidal FeMn crust that is 2 -3 cm in thickness.		
Thin Section Summary	A vesicular, olivine phyric basalt with a plagioclase rich groundmass. Olivine grains are 100% recrystallized to iddingsite. The groundmass is composed of ~50% plagioclase laths and altered cryptocrystalline mesostasis. Sample is highly vesicular with partial calcite and zeolite infill. No significant clinopyroxene grains found in the thin section.		

Whole Rock

Transmitted Light

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	15			1			40	
Present (%) [Pr]	0			1			20	
Replaced / Filled (%) [Rf]	15			0			20	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.25			0.25			0.25	
Maximum Size (mm)	1.5			0.35			1.25	
Modal Size (mm)	1			0.3			0.75	
Shape	subhedral			subhedral			rounded	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments	100% iddingsite crystallization.			Two microcrysts in thin section			Partial calcite and or zeolite infill.	

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]	10	50						40
Present (%) [Pr]	0	45						0
Replaced / Filled (%) [Rf]	10	5						40
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.025	0.05						
Maximum Size (mm)	0.1	0.15						
Modal Size (mm)	0.05	0.1						
Shape	anhedral	lath						
Habit								
Comments	iddingsite							Altered glass and microcrystalline grains. Some magnetite is likely within