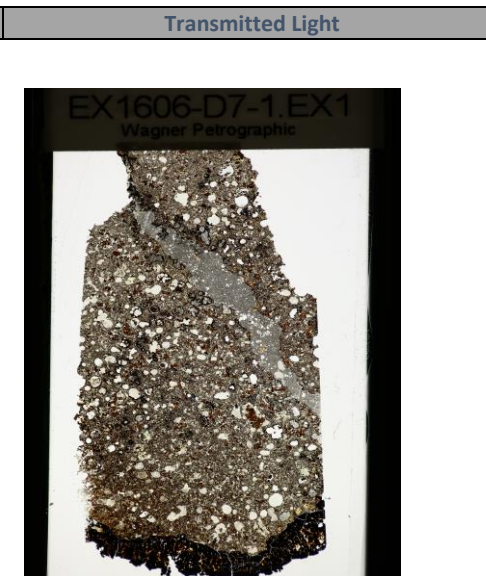


General Information			
Sample Name (IGSN)	EX1606-D7-1		
Describer	Kevin Konrad		
Sample Location	Lafayette Seamount		
Lithology prefix	olivine		
General Lithology	basalt		
Texture 1	vesicular		
Texture 2	Completely altered		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	0	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	100	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	0	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	100	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A fractured olivine-basalt clast with phosphorite filling the fractures. Olivine grains are completely recrystallized to iddingsite. The sample contains a very very thick Mn crust.		
Thin Section Summary	A highly altered olivine-basalt clast with almost all primary minerals recrystallized. A few small plagioclase laths can be found in the groundmass. Fractures are infilled with phosphorite and small amounts of Fe-Mn compounds. Not entirely sure what mineral phase is filling the vesicles, possible a partly recrystallized carbonate to phosphorite phase. A few vesicles are unfilled.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]	Cross Polarized
Original (%) [Or]	10						20	70	
Present (%) [Pr]	0						3	0	
Replaced / Filled (%) [Rf]	10						17	70	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK	
Minimum Size (mm)	0.1						0.15		
Maximum Size (mm)	0.4						1		
Modal Size (mm)	0.3						0.5		
Shape	anhedral						rounded		
Habit									
Zonation Type									
Zonation Extent									
Exsolution Type									
Special Features									
Comments	All iddingsite						variable infill of carbonate, phosphorite and clay.		



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]								100
Present (%) [Pr]								0
Replaced / Filled (%) [Rf]								100
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)								
Maximum Size (mm)								
Modal Size (mm)								
Shape								
Habit								
Comments								Some small plagioclase laths but mostly all mush