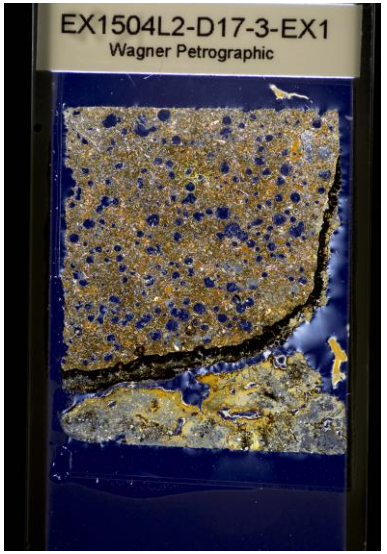
General Information			
Sample Name (IGSN)	EX1504L2-D17-3		
Describer	Kevin Konrad		
Sample Location	East North Gardner		
Lithology prefix	olivine		
General Lithology	basalt		
Texture 1	highly altered		
Texture 2	vesicular		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	3	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	97	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	5	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	95	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A conglomerate with a phosphorite matrix and a olivine-basalt clast within. The clast is vesicular and contains recystallized olivine phenocrysts and a fine grained matrix. Thin section taken from the clast. The rock has a thick Mn crust.		
Thin Section Summary	A heavily altered olivine-basalt. The olivine phenocrysts are completely recrystallized to iddingsite. The groundmass consists of fairly fresh plagioclase within a matrix of 100% alteration. Vesicles are found throughout and contain variable amounts and types of alteration infill.		

Whole Rock

Transmitted Light

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	7						40	53
Present (%) [Pr]	1						37	3
Replaced / Filled (%) [Rf]	6						3	50
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.2						0.2	
Maximum Size (mm)	0.4						0.6	
Modal Size (mm)	0.3						0.3	
Shape	subhedral						rounded	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments	Almost all are recrystallized to iddingsite.						Some alteration coating	

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		10						90
Present (%) [Pr]		10						0
Replaced / Filled (%) [Rf]		0						90
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.04						
Maximum Size (mm)		0.1						
Modal Size (mm)		0.08						
Shape		lath						
Habit								
Comments								Reddish alteration, likely some magnetite in there.