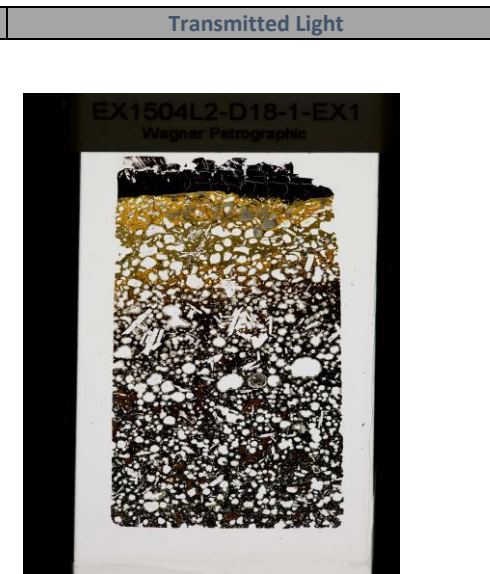
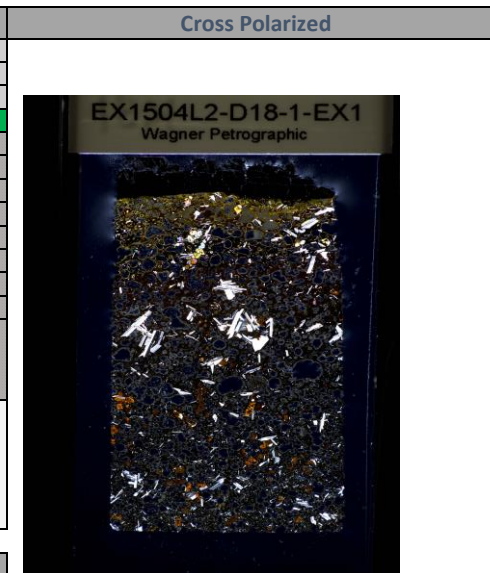


General Information			
Sample Name (IGSN)	EX1504L2-D18-1		
Describer	Kevin Konrad		
Sample Location	West Nihoa		
Lithology prefix	Plagioclase-olivine		
General Lithology	Basalt		
Texture 1	vesicular		
Texture 2	glassy		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	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 (%)	95	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	5	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A plagioclase and olivine phyric basalt. Olivine is fairly fresh. Sample is vesicular and contains a partly altered glassy rind. Rock has a thin Mn crust.		
Thin Section Summary	A olivine and plagioclase phyric basalt. Olivine is completely recrystallized to iddingsite except in the glassy rind there are olivine with little to no recrystallization. Plagioclase crystals are relatively free of alteration. Plagioclase and olivine are commonly intergrown. Groundmass is highly vesicular with alteration coating. Matrix is composed almost entirely of glass with some small olivine and plagioclase crystals. Alteration of glass varies with some palagonite and some fresh glass.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	8	15					60	17
Present (%) [Pr]	2	15					40	16
Replaced / Filled (%) [Rf]	6	0					20	1
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.2	0.2					0.4	
Maximum Size (mm)	0.5	2					0.6	
Modal Size (mm)	0.3	1					0.5	
Shape	subhedral	euohedral					rounded	
Habit		twinned						
Zonation Type		sector						
Zonation Extent								
Exsolution Type								
Special Features								
Comments	Olivine are recrystallized except within the glassy rind fresh grains exist.						Some alteration infill.	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [GI]	MSTASIS [Ms]
Original (%) [Or]		5					95	
Present (%) [Pr]		5					60	
Replaced / Filled (%) [Rf]		0					35	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.01						
Maximum Size (mm)		0.02						
Modal Size (mm)		0.02						
Shape		lath						
Habit								
Comments							Some areas fresher than others.	