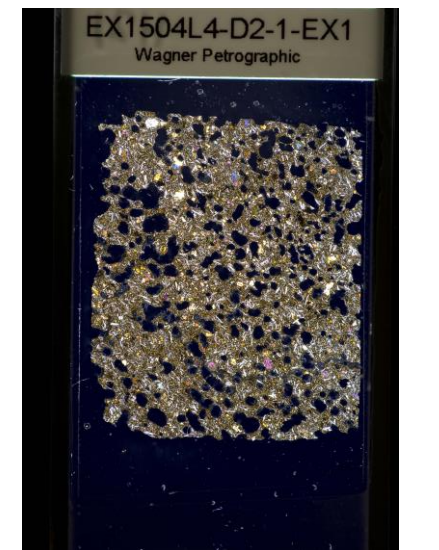


General Information			
Sample Name (IGSN)	EX1504L4-D2-1		
Describer	Kevin Konrad		
Sample Location	SW Niihau Pinnacle		
Lithology prefix			
General Lithology	Basalt		
Texture 1	Vesicular		
Texture 2	porphyritic		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	40	Check [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 (%)	0	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	100	Check [Or = Pr + Rf]	OK
Whole Rock Summary	An altered and fine grained basalt with trace plagioclase and olivine grains. Sample is highly vesicular with no infill. The rim of the sample contains an altered hyaloclastite like texture.		
Thin Section Summary	Sample contains coarser grained plagioclase and olivine with a fairly altered groundmass. Vesicles are semi-circular and contain no alteration. Some fractures contain some alteration products. Coarser grain fraction contains fresh plagioclase and partially recrystallized olivine. The groundmass is a mesastasis of plagioclase, spinel, altered pyroxene and altered glass.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]	Cross Polarized
Original (%) [Or]	10	10					50	30	
Present (%) [Pr]	5	9					50	0	
Replaced / Filled (%) [Rf]	5	1					0	30	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK	
Minimum Size (mm)	0.4	0.2					0.2		
Maximum Size (mm)	1.2	0.6					0.6		
Modal Size (mm)	0.6	0.4					0.4		
Shape	anhedral	subhedral					rounded		
Habit		lath							
Zonation Type									
Zonation Extent									
Exsolution Type									
Special Features									
Comments	Partial recrystallization to iddingsite						little to no infill		



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		10		15	5			70
Present (%) [Pr]		10		5	5			0
Replaced / Filled (%) [Rf]		0		10	0			70
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.1		0.1	0.1			
Maximum Size (mm)		0.4		0.2	0.1			
Modal Size (mm)		0.2		0.2	0.1			
Shape		lath						
Habit								
Comments				Partly altered.				