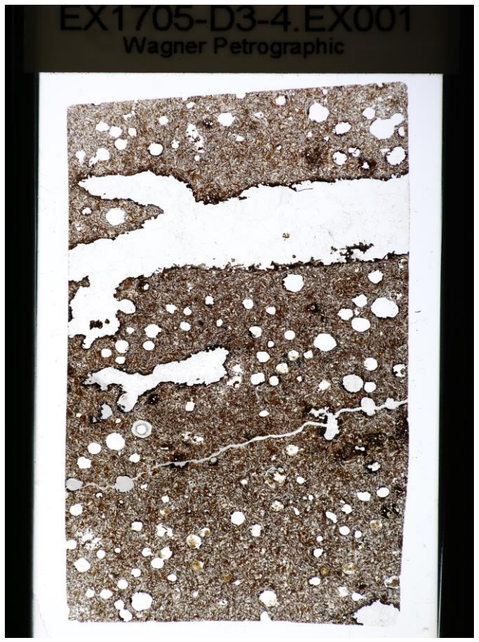
General Information			
Sample Name (IGSN)	EX1705-D3-4		
Describer	Kevin Konrad		
Sample Location	Te Kawhiti a Maui		
Lithology prefix			
General Lithology	Basalt		
Texture 1	vesiclular		
Texture 2	pervasive alteration		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	5	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	95	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 reddish vesicular basalt with a mixture of unfilled, calcite filled and possibly clay filled vesicles. No phenocrysts are observable in the hand sample. The outer rim of the rock contains some Mn infill on vesicles/fractures. Groundmass is likely recrystallized with pervasive Fe-oxide alteration.		
Thin Section Summary	A highly altered basalt with numerous palagonite rimmed vesicles and large calcite filled fractures. Groundmass consists of a few plagioclase laths in an otherwise completely recrystallized matrix. Mesostasis consists of palagonite and reddish Fe-oxide alteration.		

Whole Rock

Transmitted Light



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]							15	85
Present (%) [Pr]							3	4
Replaced / Filled (%) [Rf]							12	81
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)							0.25	
Maximum Size (mm)							0.75	
Modal Size (mm)							0.5	
Shape							rounded-irregular	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments							All palagonite rimmed in section. Some contain clay-like debris infilling. Fractures and one vesicle contain calcite infill.	

GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		5						95
Present (%) [Pr]		4						0
Replaced / Filled (%) [Rf]		1						95
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.05						
Maximum Size (mm)		0.15						
Modal Size (mm)		0.1						
Shape		subhedral						
Habit		elongated						
Comments		Very thin laths						Fe-oxide and palagonite alteration.

Cross Polarized