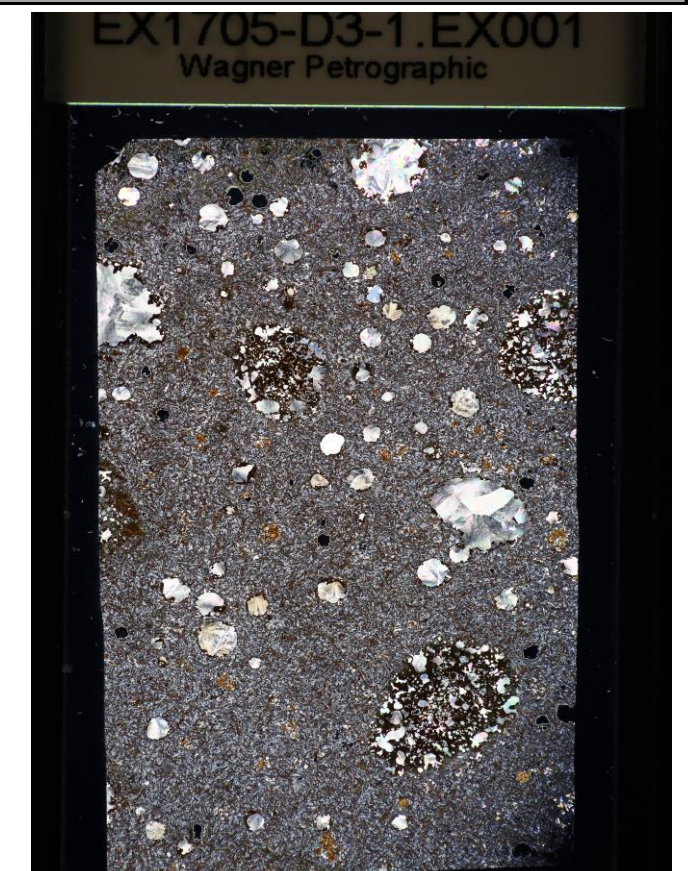


General Information		
Sample Name (IGSN)	EX1705-D3-1	
Describer	Kevin Konrad	
Sample Location	Te Kawhiti a Maui	
Lithology prefix	Olivine	
General Lithology	Basalt	
Texture 1	Vesicular	
Texture 2	Altered	
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%] OK
Whole Rock Present (%)	15	Check [Or = Pr + Rf] OK
Whole Rock Replaced (%)	85	Check [Or = Pr + Rf] OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%] OK
Total Groundmass Present (%)	15	Check [Or = Pr + Rf] OK
Total Groundmass Replaced (%)	85	Check [Or = Pr + Rf] OK
Whole Rock Summary	A reddish basalt with calcite filled vesicles. Contains a thin Mn-coat. May have iddingsite phenocrysts but no other visible phenocryst phase. Some vesicles are clay infilled.	
Thin Section Summary	A plagioclase rich olivine-basalt with calcite filled vesicles. Olivine is completely replaced with a mixture of calcite and iddingsite. Groundmass consists of long thin plagioclase grains in a completely recrystallized mesostasis. Vesicles are typically either calcite filled, unfilled but palagonite rimmed, or filled with a clay/calcite mixture.	



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	5						30	65
Present (%) [Pr]	0						5	10
Replaced / Filled (%) [Rf]	5						25	55
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.25						0.25	
Maximum Size (mm)	0.4						6	
Modal Size (mm)	0.35						2	
Shape	anhedral						subrounded	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments	Recrystallized to iddingsite with calcite filling voids/fractures.						Calcite fill, no fill with palagonite rims or clay and calcite mixture	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		15						85
Present (%) [Pr]		14						0
Replaced / Filled (%) [Rf]		1						85
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.1						
Maximum Size (mm)		0.3						
Modal Size (mm)		0.2						
Shape		subhedral						
Habit		Elongated						
Comments								Reddish Fe-oxide alteration, possible a olivine-glass matrix