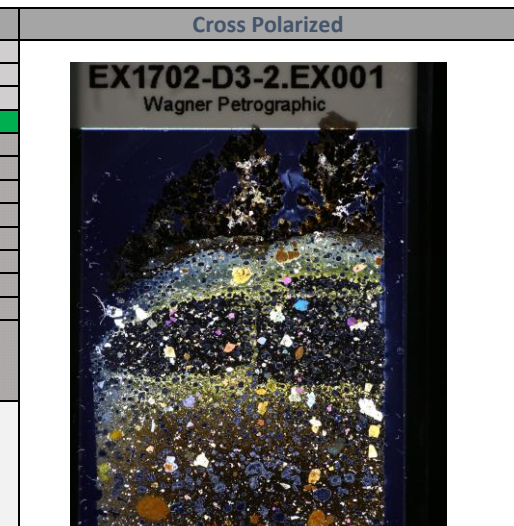


General Information			
Sample Name (IGSN)	EX1702-D3-2		
Describer	Kevin Konrad		
Sample Location	Rose Atoll		
Lithology prefix	olivine		
General Lithology	basalt		
Texture 1	Glass bearing		
Texture 2	altered		
Whole Rock Original (%)	100	Check [ Ph + Vs + Gm = 100% ]	OK
Whole Rock Present (%)	100	Check [ Or = Pr + Rf ]	OK
Whole Rock Replaced (%)	0	Check [ Or = Pr + Rf ]	OK
Total Groundmass Original (%)	100	Check [ Gp + Gl + Ms = 100% ]	OK
Total Groundmass Present (%)	100	Check [ Or = Pr + Rf ]	OK
Total Groundmass Replaced (%)	0	Check [ Or = Pr + Rf ]	OK
Whole Rock Summary	A fine grained iddingsite bearing basalt with a glassy rind. Some fresher olivine are present within the rind. Sample is vesicular with some zeolite infilling. Contains a 0.25-0.5" Mn rind		
Thin Section Summary	Thin section captures an interesting gradation from the Mn rind towards the interior of the sample. Goes from Mn + CaCO3 rind to a grey palagonite altered glass to a yellow palagonite altered glass to somewhat fresh glass with minor Fe-oxide alteration to a brown/yellow palagonite altered glass to a reddish palagonite glass. Somewhat fresh olivine are found within the glassy regions of the rock and then degrade into pure iddingsite towards the sample's core. Vesicles are rounded and contain zeolite infilling. Some small clinopyroxene and plagioclase grains are found throughout.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [ Or ]	20	3		3			20	54
Present (%) [ Pr ]	10	3		3			0	54
Replaced / Filled (%) [ Rf ]	10	0		0			20	0
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.3	0.1		0.1			0.2	
Maximum Size (mm)	1	0.2		0.25			0.25	
Modal Size (mm)	0.75	0.15		0.2			0.25	
Shape	subhedral	subhedral		anhedral			rounded	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments	Some fresh ones are found in the glassy areas. The core of the rock is 100% iddingsite.	Likely microcrysts		Likely microcrysts			100% zeolite infill	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [ Or ]							100	
Present (%) [ Pr ]							0	
Replaced / Filled (%) [ Rf ]							100	
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)								
Maximum Size (mm)								
Modal Size (mm)								
Shape								
Habit								
Comments							All altered glass. Likely altered fine grained mesostasis towards the core of the sample.	