

General Information			
Sample Name (IGSN)	EX1605L3-D2-5		
Describer	Kevin Konrad		
Sample Location	Pagan		
Lithology prefix	olivine		
General Lithology	basalt		
Texture 1	vesicular		
Texture 2	trachytic		
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	Similar to D2-3, this sample is a fine grained, highly vesicular scoria with a red exterior and dark grey interior. Possible plagioclase and/or clinopyroxene phenocrysts. Vesicles are typically unfilled.		
Thin Section Summary	This basalt consists of olivine phenocrysts along with both olivine and plagioclase microcrysts within a glassy mesostasis. The plagioclase grains are aligned in a trachytic texture. Vesicles are unfilled. Olivine grains show a continual range of sizes from 0.05 to 0.5 mm. Thin section also contains a small and altered igneous clast within the rock		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [ Or ]	10						30	60
Present (%) [ Pr ]	10						30	60
Replaced / Filled (%) [ Rf ]	0						0	0
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.25						0.1	
Maximum Size (mm)	0.5						0.6	
Modal Size (mm)	0.3						0.4	
Shape	subhedral						rounded	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments	Considering grains large than 0.25 mm to be phenocrysts						unfilled	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [ Or ]	10	30						60
Present (%) [ Pr ]	10	30						60
Replaced / Filled (%) [ Rf ]	0	0						0
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.05	0.05						
Maximum Size (mm)	0.25	0.25						
Modal Size (mm)	0.1	0.1						
Shape	subhedral	euhedral						
Habit		laths						
Comments								Varies in the degree of alteration in areas. Typically quite fresh in the core of the rock.