

General Information			
Sample Name (IGSN)	EX1605L3-D18-1		
Describer	Kevin Konrad		
Sample Location	Unnamed Petit-Spot Volcano		
Lithology prefix	Olivine-Plagioclase-Clinopyroxene		
General Lithology	Basalt		
Texture 1	Highly altered		
Texture 2			
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 plagioclase, olivine and clinopyroxene phyric basalt with coarse phenocrysts. The olivine grains are 100% recrystallized to iddingsite. The groundmass appears to be fine grained. No significant Mn-crust is present.		
Thin Section Summary	A highly altered three phase basalt (olivine, clinopyroxene and plagioclase). The olivine grains are completely recrystallized to a mixture of both iddingsite and serpentine. The clinopyroxene grains have some opaque inclusions and are in relatively decent shape. The plagioclase grains contain spongy textures near the rim of the grains and have partly disaggregated rims. Groundmass consists of a mixture of plagioclase and iddingsite grains in a variably pervasive Fe-hydroxide altered mesostasis.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [ Or ]	15	15		5				65
Present (%) [ Pr ]	0	13		5				65
Replaced / Filled (%) [ Rf ]	15	2		0				0
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.75	0.75		0.4				
Maximum Size (mm)	2	1.5		0.8				
Modal Size (mm)	1	1		0.5				
Shape	anhedral	anhedral		anhedral				
Habit								
Zonation Type		sector, albite						
Zonation Extent								
Exsolution Type		spongy						
Special Features								
Comments	Completely recrystallized to iddingsite and/or serpentine	Have altered and disaggregated edges.		Relatively decent shape				



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [ Or ]		20						80
Present (%) [ Pr ]		10						5
Replaced / Filled (%) [ Rf ]		10						75
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.01						
Maximum Size (mm)		0.02						
Modal Size (mm)		0.02						
Shape		lath like						
Habit								
Comments								Highly altered but variable in composition throughout the section