

General Information			
Sample Name (IGSN)	EX1504L3-D4-1		
Describer	Kevin Konrad		
Sample Location	McCall Seamount		
Lithology prefix	Plagioclase		
General Lithology	Basalt		
Texture 1	Vesicular		
Texture 2	Holocrystalline		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	95	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	5	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	95	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	5	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A vesicular basalt with a fine grain matrix and occasional large plagioclase grains. Some smaller plagioclase microcrysts and phenocrysts are found throughout. Vesicles are partly infilled with calcite.		
Thin Section Summary	A coarse grained basalt with occasional very large plagioclase crystals (~15mm). Vesicles are large (1-8mm) and are typically infilled with calcite. Some larger olivine microcrysts exist that are completely recrystallized to iddingsite. Groundmass consists of plagioclase and olivine		

Whole Rock

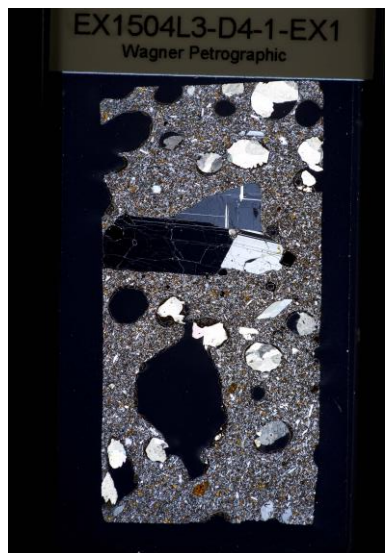


Transmitted Light



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		5					20	75
Present (%) [Pr]		5					5	71
Replaced / Filled (%) [Rf]		0					15	4
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.1					0.1	
Maximum Size (mm)		8					6	
Modal Size (mm)							2	
Shape		euhedral					rounded	
Habit								
Zonation Type		twinned						
Zonation Extent								
Exsolution Type								
Special Features								
Comments		Few but very large grains. Likely xenocrystic but no disequilibrium texture					Large vesicle in thin section. Smaller throughout with calcite infill.	

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]	20	60			5			15
Present (%) [Pr]	5	60			5			0
Replaced / Filled (%) [Rf]	15	0			0			15
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.05	0.05						
Maximum Size (mm)	0.075	0.15						
Modal Size (mm)	0.06	0.1						
Shape	anhedral	subhedral						
Habit								
Comments	mostly iddingsite	Some zoning						Likely all alteration