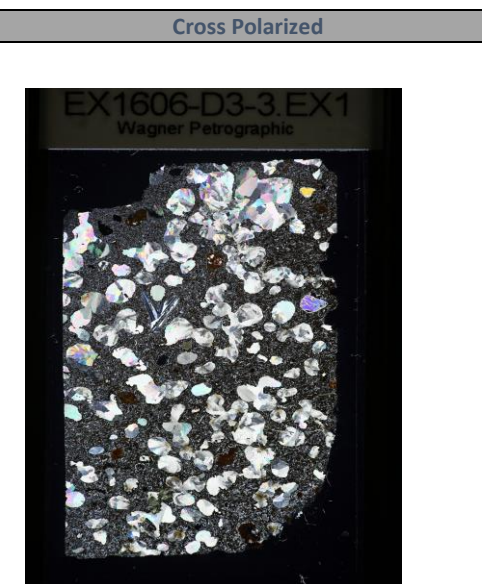


General Information			
Sample Name (IGSN)	EX1606-D3-3		
Describer	Kevin Konrad		
Sample Location	Delilah		
Lithology prefix	Olivine-clinopyroxene-plagioclase		
General Lithology	basalt		
Texture 1	highly altered		
Texture 2	vesicular		
Whole Rock Original (%)	100	Check [ Ph + Vs + Gm = 100% ]	OK
Whole Rock Present (%)	50	Check [ Or = Pr + Rf ]	OK
Whole Rock Replaced (%)	50	Check [ Or = Pr + Rf ]	OK
Total Groundmass Original (%)	100	Check [ Gp + Gl + Ms = 100% ]	OK
Total Groundmass Present (%)	30	Check [ Or = Pr + Rf ]	OK
Total Groundmass Replaced (%)	70	Check [ Or = Pr + Rf ]	OK
Whole Rock Summary	A vesicular olivine-basalt with the olivine grains recrystallized to iddingsite and serpentine. The vesicles appears to be infilled completely with calcite. Contains a relatively thick Mn-crust.		
Thin Section Summary	A olivine-clinopyroxene-plagioclase basalt with very large (up to 4mm) vesicles that are infilled completely with calcite. The olivine grains are completely recrystallized to iddingsite and the cpx grains are partially to completely recrystallized to serpentine. Some alteration zones exist within the plagioclase but it otherwise fairly fresh. The groundmass consists of fairly coarse plagioclase grains in a altered matrix of iddingsite and serpentine. A few coarse spinel microcrysts are scattered throughout the sample. The calcite infill on the vesicles are formed in beautiful spherulitic patterns that radiate out from a central core. There are one or two unfilled vesicles.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [ Or ]	5	5		5			50	35
Present (%) [ Pr ]	0	3		3			5	11
Replaced / Filled (%) [ Rf ]	5	2		2			45	25
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.6	2		0.25			1	
Maximum Size (mm)	1.4	2.5		0.6			4	
Modal Size (mm)	1	2		0.5			2	
Shape	anhedral	subhedral		anhedral			rounded	
Habit								
Zonation Type		albite twinning						
Zonation Extent								
Exsolution Type								
Special Features								
Comments	All iddingsite	Some clay like alteration in the core of the minerals.		Partial recrystallization to serpentine.			Typically complete calcite infill in a spherulitic growth pattern.	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [ Or ]		30						70
Present (%) [ Pr ]		25						5
Replaced / Filled (%) [ Rf ]		5						65
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.1						
Maximum Size (mm)		0.2						
Modal Size (mm)		0.1						
Shape		laths						
Habit								
Comments								A mixture of altered glass, olivine, pyroxene and some spinels