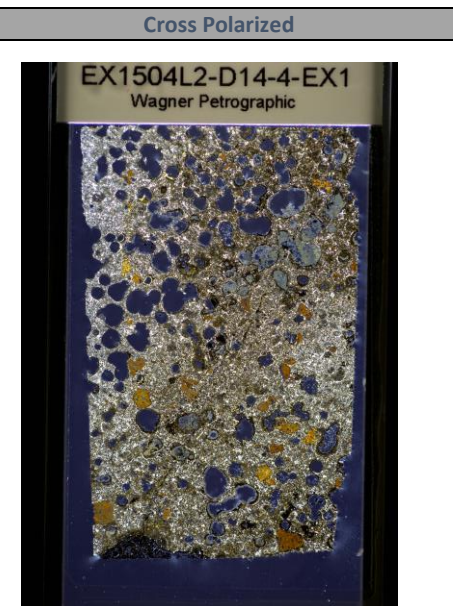


General Information			
Sample Name (IGSN)	EX1504L2-D14-4		
Describer	Kevin Konrad		
Sample Location	North Pioneer Ridge		
Lithology prefix	Olivine		
General Lithology	Basalt		
Texture 1	Vesicular		
Texture 2	Altered		
Whole Rock Original (%)	100	Check [ Ph + Vs + Gm = 100% ]	OK
Whole Rock Present (%)	80	Check [ Or = Pr + Rf ]	OK
Whole Rock Replaced (%)	20	Check [ Or = Pr + Rf ]	OK
Total Groundmass Original (%)	100	Check [ Gp + Gl + Ms = 100% ]	OK
Total Groundmass Present (%)	90	Check [ Or = Pr + Rf ]	OK
Total Groundmass Replaced (%)	10	Check [ Or = Pr + Rf ]	OK
Whole Rock Summary	A fine grained and vesicular basalt with apparent 'layers' of vesicular and non-vesicular groundmass. The vesicles range from no to complete infilling. Some iddingsite grains are found throughout. The sample contains a thin Mn coat.		
Thin Section Summary	A fine grained olivine-basalt with olivine phenocrysts completely recrystallized to iddingsite. The sample is highly vesicular with alteration infilling ranging from complete to none. Vesicles are unevenly distributed with zones with ~80% vesicularity and zones with only ~10%. Some fractures exist in thin section with halos of alterations throughout the groundmass. Groundmass consists of altered glass with some clinopyroxene, magnetite and plagioclase.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [ Or ]	10						40	50
Present (%) [ Pr ]	1						35	45
Replaced / Filled (%) [ Rf ]	9						5	5
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.25						0.5	
Maximum Size (mm)	0.5						1	
Modal Size (mm)	0.3						0.75	
Shape	an-subhedral						subrounded	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features	Recrystallized to iddingsite							
Comments							Most are not infilled or minor palagonite. Some vesicles appear full infilled but may be altered grains.	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [ Or ]	3	15		3	10		69	
Present (%) [ Pr ]	0	12		3	10		0	
Replaced / Filled (%) [ Rf ]	3	3		0	0		69	
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.02	0.02		0.002	0.03			
Maximum Size (mm)	0.03	0.05		0.01	0.04			
Modal Size (mm)		0.03		0.0075	0.04			
Shape		lath like						
Habit								
Comments	Little red blobs. Likely recrystallized olivine				Some lath like in shape		Grey and altered.	