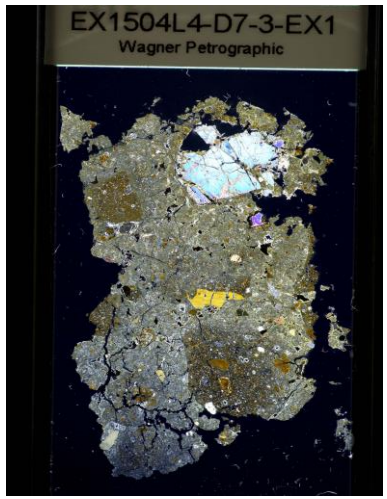
General Information			
Sample Name (IGSN)	EX1504L4-D7-3		
Describer	Kevin Konrad		
Sample Location	Southern-most Cones		
Lithology prefix	altered		
General Lithology	hyaloclastite		
Texture 1			
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	20	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	80	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	3	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	97	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A highly altered hyaloclastite with phosphorite and some sort of clay matrix. Clasts are entirely altered and reddish.		
Thin Section Summary	A hyaloclastite with palagonite and serpenite alteration throughout. Some coarse amphibole and clinopyroxene are found throughout. Most of the samples are completely recrystalized with the exception of the amphibole and cpx phenocrysts. Possibly some iddingsite as well.		

Whole Rock

Transmitted Light

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]				5		5		90
Present (%) [Pr]				2		5		3
Replaced / Filled (%) [Rf]				3		0		87
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)				3		0.8		
Maximum Size (mm)				3		2.2		
Modal Size (mm)				3		1.5		
Shape						anhedral		
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments				One large partially altered (serpentine like hydrous alteration) grain.		Fresh but sometimes disaggrated. Amphibole		

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]								
Present (%) [Pr]								
Replaced / Filled (%) [Rf]								
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)								
Maximum Size (mm)								
Modal Size (mm)								
Shape								
Habit								
Comments								