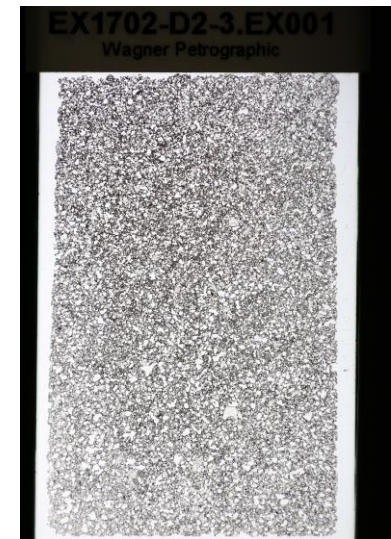


General Information			
Sample Name (IGSN)	EX1702-D2-3		
Describer	Kevin Konrad		
Sample Location	Tau Unit of NMSAS		
Lithology prefix	Clinopyroxene		
General Lithology	Basalt		
Texture 1	Vesicular		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	100	Check [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 fresh and dense fine grained vesicular basalt. No apparent alteration. Some microcrystic grains are visible (clinopyroxene most likely). Surface of the sample is covered in bacterial mats.		
Thin Section Summary	A fine grained basalt with phenocrystic clinopyroxene and olivine (~ankaramite) with microcrystic plagioclase as well. Groundmass consists of a glassy mesostatis, which appears fresh. The clinopyroxene are mostly fine (100-200um) with a few rare coarser grains (450um). Olivine is found most often in elongated shards with some pitting/disequilibrium textures. Vesicles are unfilled.		

Whole Rock



Transmitted Light



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	3			15			15	67
Present (%) [Pr]	3			15			15	67
Replaced / Filled (%) [Rf]	0			0			0	0
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.2			0.2			0.1	
Maximum Size (mm)	0.35			0.45			0.25	
Modal Size (mm)	0.25			0.25			0.2	
Shape	anhedral			subhedral			rounded	
Habit	elongated			elongated				
Zonation Type				sector				
Zonation Extent				minor				
Exsolution Type								
Special Features								
Comments	Some disequilibrium textures but no signs of replacement			Some minor bluish tint to extinction. May be Ti-augite				

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]	15	25		25				35
Present (%) [Pr]	15	25		25				35
Replaced / Filled (%) [Rf]	0	0		0				0
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.05	0.05		0.02				
Maximum Size (mm)	0.2	0.2		0.2				
Modal Size (mm)	0.1	0.15		0.15				
Shape	subhedral	subhedral		subhedral				
Habit		elongated						
Comments	Grade into phenocrystic sizes	Thin elongated grains		Grade into phenocrystic sizes				Seems fresh