

General Information			
Sample Name (IGSN)	EX1702-D2-1		
Describer	Kevin Konrad		
Sample Location	Tau Unit of NMSAS		
Lithology prefix	Glass-rimmed		
General Lithology	Basalt		
Texture 1	Fine grained		
Texture 2	Vesicular		
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 fine grained vesicular basalt with a glassy rim. Hydrous/oxidizing alteration along the perimeter of the sample. Includes some bacterial mats and other fossils on the outside of the sample. Contains some microcrystic phases.		
Thin Section Summary	A fine grained vesicular basalt with a somewhat hydrated glass rind. Groundmass consists of microcrystic clinopyroxene, olivine and plagioclase within a fine glass rich mesostasis. Vesicles are typically unfilled with some in the glass rind containing minor alteration (palagonite?) of the rim. Clinopyroxene microcrysts are commonly pitted with interior zones likely lost to disequilibrium.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]							20	80
Present (%) [Pr]							19	76
Replaced / Filled (%) [Rf]							1	4
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)							0.25	
Maximum Size (mm)							0.4	
Modal Size (mm)							0.25	
Shape							rounded	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments							Some thin palagonite rims in the glassy rind	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]	15	3		30				52
Present (%) [Pr]	13	3		28				40
Replaced / Filled (%) [Rf]	2	0		2				12
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.05	0.05		0.05				
Maximum Size (mm)	0.375	0.075		0.2				
Modal Size (mm)	0.1	0.06		0.1				
Shape	subhedral	subhedral		subhedral				
Habit		elongated						
Comments	Some elongated edges (parallel extinction)	A few elongated small plagioclase grains possible		Some pitting				Mix of glass to fine mesostasis