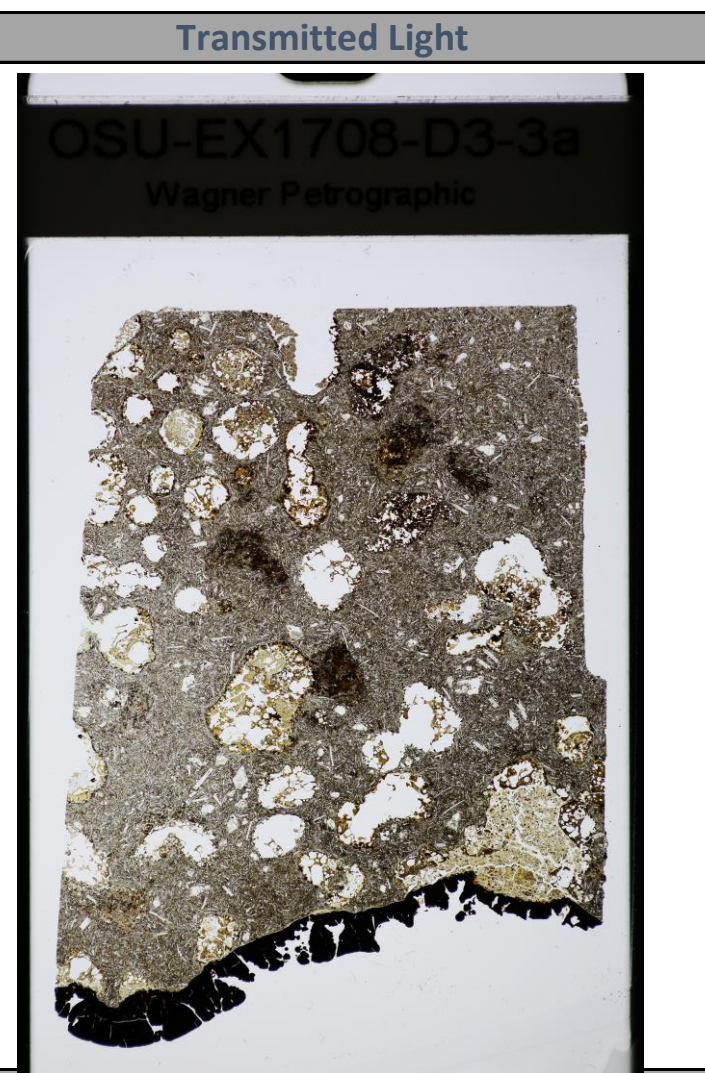
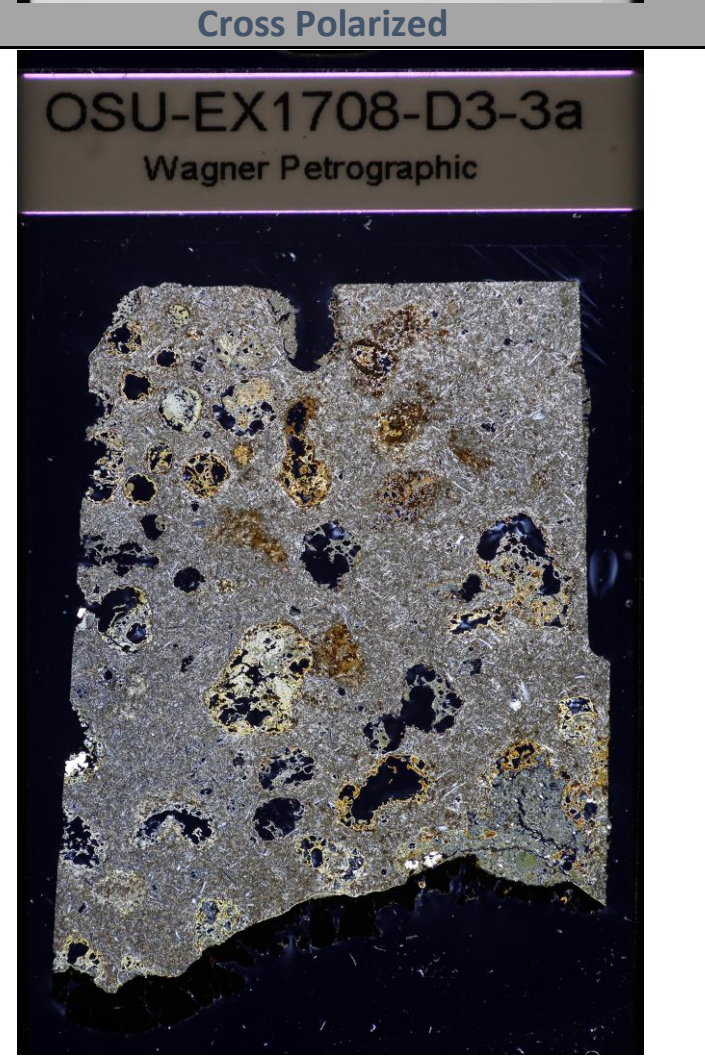


General Information		
Sample Name (IGSN)	EX1708-D3-3a	
Describer	Kevin Konrad	
Sample Location	Beethoven Ridge	
Lithology prefix	plagioclase	
General Lithology	basalt	
Texture 1	vesicular	
Texture 2	altered	
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]
Whole Rock Present (%)	15	Check [Or = Pr + Rf]
Whole Rock Replaced (%)	85	Check [Or = Pr + Rf]
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]
Total Groundmass Present (%)	10	Check [Or = Pr + Rf]
Total Groundmass Replaced (%)	90	Check [Or = Pr + Rf]
Whole Rock Summary	A very fine grained 'muddy' basalt with layers of large filled and unfilled vesicles. The amygdules are mostly carbonate infilled. The basalt contains some potential olivine phenocrysts (iddingsite) but may just be alteration filled voids. The basalt has a thin FeMn coat.	
Thin Section Summary	A highly altered plagioclase basalt with Fe-oxide and palagonite altered glass. The plagioclase grains range from skeletal to spongy. The groundmass consists of altered glass and spongy plagioclase. The vesicles have palagonite rims/filling and a mixture of alteration products inside including calcite grains. The thin section contains a inclusion of a heavily altered grain or filled vesicle with altered glass shards and plagioclase grains.	



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		5					30	
Present (%) [Pr]		3					10	
Replaced / Filled (%) [Rf]		2					20	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.5					0.25	
Maximum Size (mm)		0.75					6	
Modal Size (mm)		0.5					3	
Shape		subhedral					subrounded	
Habit								
Zonation Type		Albite twinning						
Zonation Extent		common						
Exsolution Type								
Special Features								
Comments		Spongy textures					Infilling from palagonite and calcite plus some other alteration products	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		20						80
Present (%) [Pr]		10						0
Replaced / Filled (%) [Rf]		10						80
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.1						
Maximum Size (mm)		0.25						
Modal Size (mm)		0.15						
Shape		subhedral						
Habit		elongated						
Comments		Spongy textures common						Mostly altered glass.