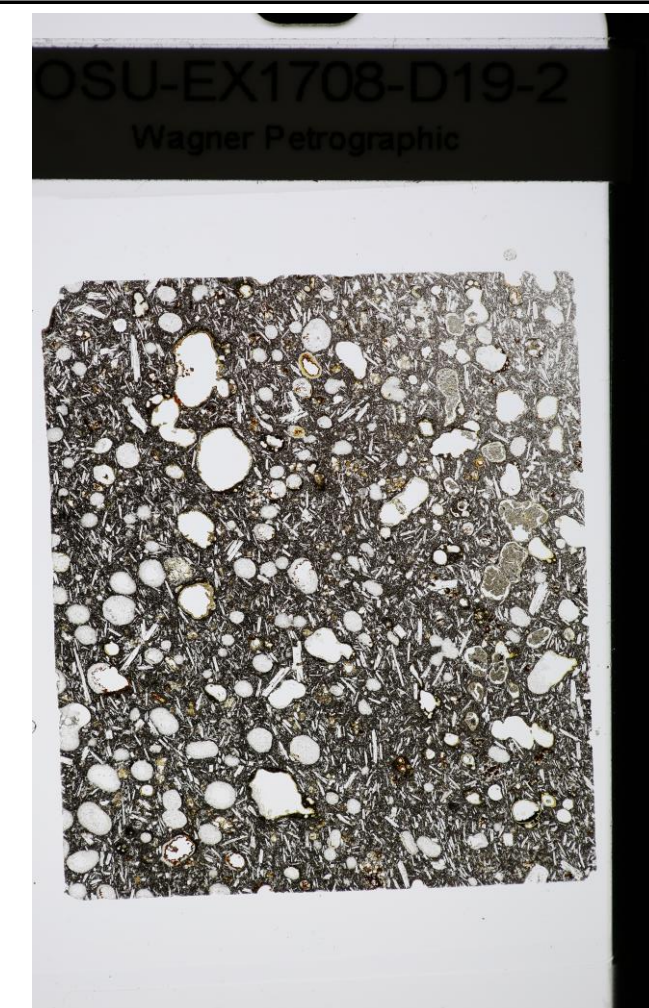
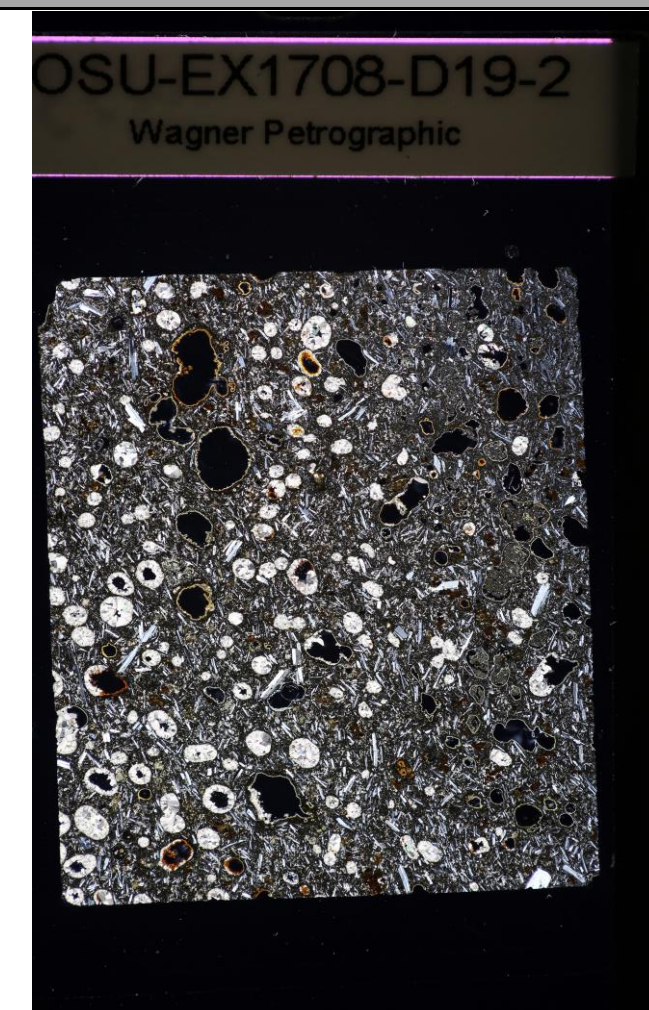


General Information			
Sample Name (IGSN)	EX1708-D19-2		
Describer	Kevin Konrad		
Sample Location	Mendelssohn Seamount		
Lithology prefix	Olivine and Plagioclase		
General Lithology	Basalt		
Texture 1	Altered		
Texture 2	Vesicular		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	40	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	60	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	20	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	80	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A cryptocrystalline olivine-plagioclase basalt with large partially infilled vesicles. The sample contains regions of more or less Fe-oxide recrystallization and all olivine are recrystallized to iddingsite. Many vesicles contain rims of zeolite but complete infilling is rare. Sample is slightly coarser grained in some regions and contains groundmass plagioclase.		
Thin Section Summary	An olivine and plagioclase phryic basalt with a calcite and palagonite amygdules. The olivine grains are entirely recrystallized to iddingsite. The plagioclase are elongated laths that range up to 2 mm in length. The groundmass consists of altered glass, talc and thin plagioclase laths. The vesicles are typically palagonite rimmed with calcite infilling common.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	5	10					20	
Present (%) [Pr]	0	10					10	
Replaced / Filled (%) [Rf]	5	0					10	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.25	0.25					0.25	
Maximum Size (mm)	0.5	2					2.5	
Modal Size (mm)	0.35	1					1	
Shape	anhedral	Subhedral					Rounded	
Habit		Laths						
Zonation Type		Twinning						
Zonation Extent		Common						
Exsolution Type								
Special Features								
Comments	100% iddingsite recrystallization						Calcite infilling common. Palagonite rims on nearly all non-calcite filled vesicles.	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		20						80
Present (%) [Pr]		18						0
Replaced / Filled (%) [Rf]		2						80
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.01						
Maximum Size (mm)		0.05						
Modal Size (mm)		0.025						
Shape		subhedral						
Habit		laths						
Comments								Altered glass, talc, palagonite and maybe some spinels.