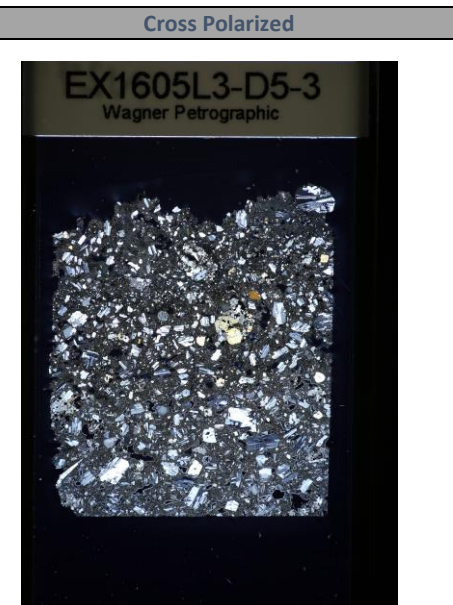


General Information			
Sample Name (IGSN)	EX1605L3-D5-3		
Describer	Kevin Konrad		
Sample Location	Ahyi		
Lithology prefix	olivine-plagioclase		
General Lithology	basalt		
Texture 1			
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	100	Check [Or = Pr + 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 plagioclase phyric basalt with a thick alteration halo around a dark and semi-fresh core. Looks to be fractured, likely a pillow basalt but lacks any glass. Outer layer of alteration is greenish and may potentially be hydrothermal in nature.		
Thin Section Summary	A olivine and plagioclase phyric basalt with frequent disequilibrium textures. Sample contains spinel (or some other opaque mineral) inclusions through the phenocrysts with irregular crystal grain boundaries. Sample commonly contains palagonite-like alteration rimming the vesicles. Disequilibrium textures seem most prevalent in the glomerocrystic cluster indicating they may be xenoliths. Both albite twinning and sector zoning is common in the plagioclase. The groundmass consists of variably altered cryptocrystalline mesostasis. The nature of some phenocrysts makes me hypothesize this sample was subject to hydrothermal alteration.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	5	25			3		10	57
Present (%) [Pr]	3	20			3		8	57
Replaced / Filled (%) [Rf]	2	5			0		2	0
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.2	0.2			0.2		0.1	
Maximum Size (mm)	0.8	1.3			0.3		0.6	
Modal Size (mm)	0.4	0.6			0.2		0.5	
Shape	subhedral	sub-anhedral			anhedral		subrounded	
Habit								
Zonation Type		sector, albite						
Zonation Extent		common						
Exsolution Type								
Special Features								
Comments	Some serpentine like recrystallization	Some amorphous zoning patterns and spongy textures			Some anhedral shaped opaque grains. I assume spinels		irregular shaped with some secondary minerals rimming the void	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]								100
Present (%) [Pr]								60
Replaced / Filled (%) [Rf]								40
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)								
Maximum Size (mm)								
Modal Size (mm)								
Shape								
Habit								
Comments								Varies in degree of alteration and is difficult to tell how altered it is.