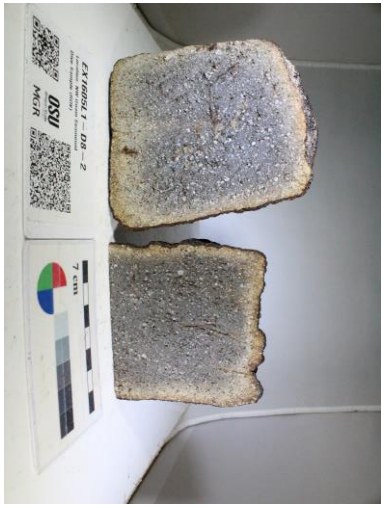
General Information			
Sample Name (IGSN)	EX1605L1-D8-2		
Describer	Kevin Konrad		
Sample Location	NW Guam		
Lithology prefix	Three phase		
General Lithology	basalt		
Texture 1	highly crystalline		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	100	Check [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 highly phyric basalt with plagioclase and potential both olivine and cpx phenocrysts. The sample contains a halo of alteration with a relatively fresh core. Vesicles (or fractures) are thin and elongated with some alteration halos. Rim of the rock contains a partially altered glass rich rind.		
Thin Section Summary	A highly crystalline (~60%) basalt with plagioclase, olivine and clinopyroxene phenocrysts. The phenocrysts range up to 1 cm in size. Proportions go plagioclase>olivine>cpx. The plagioclase are commonly sector zoned and contain some spinel inclusions. The grains commonly display ophitic textures. Some coarse spinels are found throughout, commonly as inclusions in the phenocryst phases (particularly olivine). Groundmass is a cryptocrystalline mesostasis with some fine plagioclase and cpx. Sample has a few unfilled vesicles.		

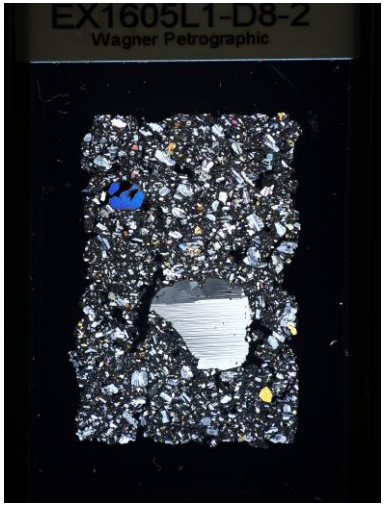
Whole Rock



Transmitted Light

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	15	35		10	3		10	27
Present (%) [Pr]	15	35		10	3		10	27
Replaced / Filled (%) [Rf]	0	0		0	0		0	0
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.25	0.25		0.25	0.1		0.15	
Maximum Size (mm)	1.5	10		0.75	0.3		0.5	
Modal Size (mm)	0.75	1.5		0.3	0.2		0.2	
Shape	subhedral	subhedral		subhedral	subhedral		irregular	
Habit								
Zonation Type		sector, twinning						
Zonation Extent		common						
Exsolution Type								
Special Features								
Comments	Inclusions are common	Some inclusions are found, mostly spinel			Commonly square shaped and found often as inclusions		No noticeable infill or alteration halos	

Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]								100
Present (%) [Pr]								100
Replaced / Filled (%) [Rf]								0
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)								
Maximum Size (mm)								
Modal Size (mm)								
Shape								
Habit								
Comments								Seems to be unaltered mixture of plagioclase, cpx, spinel and glass