

General Information			
Sample Name (IGSN)	EX1605L3-D5-4		
Describer	Kevin Konrad		
Sample Location	Ahyi		
Lithology prefix	plagioclase-olivine-clinopyroxene		
General Lithology	Basalt		
Texture 1	vesicular		
Texture 2			
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 (%)	100	Check [ Or = Pr + Rf ]	OK
Total Groundmass Replaced (%)	0	Check [ Or = Pr + Rf ]	OK
Whole Rock Summary	A plagioclase and clinopyroxene phyric basalt. Phenocrysts are coarse and abundant throughout the sample. Some purple-reddish marks may be altered olivine phenocrysts.		
Thin Section Summary	A basalt with olivine-clinopyroxene-plagioclase phenocrysts. The olivine and cpx tend to display disequilibrium textures and are often found clustered (xenoliths?). The plagioclase grains contain abundant inclusions and display occasional sector zoning. There are some grains that are either secondary crystallization or completely altered olivine (chlorite/serpentine). Sample has abundant small vesicles and contains a fine grained, glass rich mesostasis.		

## Whole Rock



## Transmitted Light



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [ Or ]	5	20		3	3		40	29
Present (%) [ Pr ]	4	20		3	3		40	29
Replaced / Filled (%) [ Rf ]	1	0		0	0		0	0
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.2	0.2		0.2	0.2		0.01	
Maximum Size (mm)	0.6	1		0.5	0.4		0.1	
Modal Size (mm)	0.4	0.7		0.4	0.2		0.05	
Shape	subhedral	subhedral		subhedral	subhedral		round	
Habit								
Zonation Type		albite, sector						
Zonation Extent		common						
Exsolution Type								
Special Features								
Comments	Some appear to be altered although may be separate secondary grains	Frequent melt and spinel inclusions throughout.		Some disequilibrium textures	Some opaque grains, likely spinels			

## Cross Polarized



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [ Or ]								100
Present (%) [ Pr ]								90
Replaced / Filled (%) [ Rf ]								10
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 quite fresh but difficult to tell.