

General Information			
Sample Name (IGSN)	EX1706-D7-1		
Describer	Kevin Konrad		
Sample Location	Edmonson Seamount		
Lithology prefix	Amphibole-Plagioclase-Muscovite		
General Lithology	Basalt		
Texture 1	Trachytic		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	80	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	20	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	80	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	20	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A plagioclase-amphibole basalt with few vesicles. Sample contains an alteration rind (possible altered glass). Sample has yellowish grains which may be recrystallized minerals or infilled vesicles. Sample contains a thin FeMn coat.		
Thin Section Summary	A amphibole and plagioclase basalt with glomerocrysts (or xenocryst) - clusters of amphibole-spinel-muscovite. Plagioclase grains are mostly altered with fine grained radial minerals, likely zeolites replacing zones. Amphibole grains are fresh with occasional spinel inclusions. Spinel macrocrysts are found throughout (likely xenoliths). The groundmass is composed of coarse, aligned plagioclase grains intermixed with altered grains (olivine?) and spinel. The freshness of groundmass plagioclase stands in contrast to the altered phenocrysts. Either the phenocrysts are not plagioclase (possibly orthoclase) or all the phenocrysts in this rock are from disasgrated xenoliths.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]	Cross Polarized
Original (%) [Or]		15			1	5			
Present (%) [Pr]		3			1	4			
Replaced / Filled (%) [Rf]		12			0	1			
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK	
Minimum Size (mm)		0.5			0.25	0.25			
Maximum Size (mm)		2.5			1	1			
Modal Size (mm)		1			0.25	0.75			
Shape		anhedral			subhedral	subhedral			
Habit									
Zonation Type		sector, twinning							
Zonation Extent		common							
Exsolution Type									
Special Features									
Comments		Altered to zeolite like mush. Some (maybe all) may be K-feldspars			One large grain, few smaller ones	Mixed amphibole (euhedral, spinel inclusions) and muscovite.			



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		60			10			30
Present (%) [Pr]		60			10			0
Replaced / Filled (%) [Rf]		0			0			30
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.2			0.1			
Maximum Size (mm)		0.35			0.15			
Modal Size (mm)		0.25			0.1			
Shape		eu-subhedral			subhedral			
Habit		laths						
Comments		Trachytic						Mixed alteration products