		General Information				
Sample Name (IGSN)		EX1706-D11-3				
Describer	Kevin Konrad					
Sample Location	Ridge Seamount					
Lithology prefix	Three-phase					
General Lithology		alkali basalt				
Texture 1	Trachytic					
Texture 2	Heavily altered					
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	ОК			
Whole Rock Present (%)	60	Check [Or = Pr + Rf]	ОК			
Whole Rock Replaced (%)	40	Check [Or = Pr + Rf]	ОК			
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	ОК			
Total Groundmass Present (%)	50	Check [Or = Pr + Rf]	ОК			
Total Groundmass Replaced (%)	50	Check [Or = Pr + Rf]	ОК			
Whole Rock Summary		r olivine and clinopyroxene basalt with completely in ecrystallized to iddingsite. Groundmass appears to be plagioclase microcrysts. Sample is encrusted in a 4	cryptocrystalline with some fine			
Thin Section Summary	are a mi some tal larger gra	grained three phased basalt with olivine, clinopyroxe x of iddingsite and some scarcely preserved olivine cr c alteration as well as iddingsite chadacrysts. Plagiocl ins. The groundmass consists of aligned plagioclase gr vesicular with calcite infilling for most vesicles. Some are found within the groundn	ystal. The clinopyroxene grains have lase is mostly microcrystic with a few rains and a heavily altered mesostasis. small rings of palagonite (amygdules)			





PHENOCRYSTS [Ph]	OL	PLAG	ОРХ	СРХ	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]	10	5		8			30	
Present (%) [Pr]	1	4		6			5	
Replaced / Filled (%) [Rf]	9	1		2			25	
Check [Or = Pr + Rf]	ОК	ОК	OK	OK	ОК	OK	ОК	ОК
Minimum Size (mm)	0.25	0.25		0.25			0.1	
Maximum Size (mm)	1	0.5		1.25			3.5	
Modal Size (mm)	0.5	0.35		0.5			2	
Shape	anhedral	subhedral		anhedral			subrounded	
Habit		elongated						
Zonation Type		twinning		sector				
Zonation Extent		minor		minor				
Exsolution Type								
Special Features				blueish extinction				
Comments	Mostly recrystallized to iddingsite. Few surviving cores.			Likely Ti-Augite			Mostly infilled with radial calcite. Some palagonite. Two vesicles are empty	

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GROUNDMASS [Gp]	OL	PLAG	ОРХ	СРХ	SPINEL	OTHER	GLASS [GI]	MSTASIS [Ms]
Original (%) [Or]		50						50
Present (%) [Pr]		35						0
Replaced / Filled (%) [Rf]		15						50
Check [Or = Pr + Rf]	OK	OK	ОК	ОК	OK	OK	ОК	ОК
Minimum Size (mm)		0.05						
Maximum Size (mm)		0.25						
Modal Size (mm)		0.1						
Shape		laths						
Habit								
Comments		Trachytic						A mush of fine grained alteration products. Likely some magnetite as well.

