General Information			
Sample Name (IGSN)	EX1702-D5-4		
Describer	Kevin Konrad		
Sample Location	Leoso Seamount		
Lithology prefix	Plagioclase		
General Lithology	Basalt		
Texture 1	Heavily altered		
Texture 2	Fine grained		
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	20	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	80	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	20	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	80	Check [Or = Pr + Rf]	OK
Whole Rock Summary			
Thin Section Summary	A heavily altered plagioclase basalt similar to D5-2. The rock contains a few spongy textured plagioclase phenocrysts. The groundmass consists of plagioclase and spinel grains in a matrix of heavily altered mesostasis. Vesicles are typically infilled with a fine palagonite-like alteration product. Most vesicles contain a thick rim of Fe-Oxidiation around the vesicle.		

Whole Rock

Transmitted Light

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		5					10	85
Present (%) [Pr]		3					5	17
Replaced / Filled (%) [Rf]		2					5	68
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.2					0.25	
Maximum Size (mm)		0.5					0.45	
Modal Size (mm)		0.3					0.4	
Shape		subhedral					Rounded-Irregular	
Habit		Elongated						
Zonation Type		Albite twin						
Zonation Extent								
Exsolution Type								
Special Features								
Comments		Spongy textured. Some spinel inclusions					Some unfilled rounded vesicles with oxidation zones around. Others have alteration infill	

Cross Polarized

GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		15			10			75
Present (%) [Pr]		13			10			0
Replaced / Filled (%) [Rf]		2			0			75
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.01			0.01			
Maximum Size (mm)		0.05			0.1			
Modal Size (mm)		0.02			0.06			
Shape		subhedral			subhedral			
Habit		Elongated						
Comments					Unable to tell how altered/recrystallized they are.			Completely altered