

General Information			
Sample Name (IGSN)	EX1702-D11-3		
Describer	Kevin Konrad		
Sample Location	Seamount D		
Lithology prefix	Olivine-Clinopyroxene		
General Lithology	Basalt		
Texture 1	Vesicular		
Texture 2	Altered		
Whole Rock Original (%)	100	Check [ Ph + Vs + Gm = 100% ]	OK
Whole Rock Present (%)	60	Check [ Or = Pr + Rf ]	OK
Whole Rock Replaced (%)	40	Check [ Or = Pr + Rf ]	OK
Total Groundmass Original (%)	100	Check [ Gp + Gl + Ms = 100% ]	OK
Total Groundmass Present (%)	40	Check [ Or = Pr + Rf ]	OK
Total Groundmass Replaced (%)	60	Check [ Or = Pr + Rf ]	OK
Whole Rock Summary	A greyish-brown basalt with more alteration towards the rim. Contains a thin Mn coat and some filled and unfilled vesicles.		
Thin Section Summary	An altered ankaramite with all olivine grains recrystallized to iddingsite. Some of the phenocrysts grains seem to have been 'plucked' out during thin section preparation. Small chance that there was plagioclase as a phenocryst phase. Clinopyroxene phenocrysts contain abundant spinel inclusions. Groundmass consists of plagioclase and spinels with a few iddingsite, clinopyroxene and palagonite/clay alteration. Fractures and vesicles are unfilled but contain thick halos of alteration.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [ Or ]	10			5			10	75
Present (%) [ Pr ]	0			4			9	30
Replaced / Filled (%) [ Rf ]	10			1			1	45
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.25			0.25			0.2	
Maximum Size (mm)	0.75			0.4			0.5	
Modal Size (mm)	0.5			0.3			0.3	
Shape	anhedral			subhedral			Rounded	
Habit								
Zonation Type								
Zonation Extent								
Exsolution Type								
Special Features								
Comments	Completely recrystallized and/or plucked out			Inclusions are common			Unfilled but contain thick alteration halos	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [ Or ]	10	60		3	10			17
Present (%) [ Pr ]	0	50		2	10			0
Replaced / Filled (%) [ Rf ]	10	10		1	0			17
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.1	0.1		0.01	0.01			
Maximum Size (mm)	0.2	0.15		0.1	0.05			
Modal Size (mm)	0.15	0.1		0.1	0.02			
Shape	anhedral	subhedral		subhedral	subhedral			
Habit								
Comments					Commonly found as inclusions in other groundmass phases			Palagonite/clay/Fe-oxide glass