

General Information			
Sample Name (IGSN)	EX1706-D9-4		
Describer	Kevin Konrad		
Sample Location	Wetmore Seamount		
Lithology prefix	Olivine-plagioclase		
General Lithology	Basalt		
Texture 1	Trachytic		
Texture 2			
Whole Rock Original (%)	100	Check [ Ph + Vs + Gm = 100% ]	OK
Whole Rock Present (%)	50	Check [ Or = Pr + Rf ]	OK
Whole Rock Replaced (%)	50	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 large rock with a range of FeMn structures and a single basalt nodule within. The basalt nodule is plagioclase phyric and has a altered cryptocrystalline groundmass. The FeMn varies from thick ~6cm layer with some perpendicular void spaces to thinly layered (hydrothermal?) FeMn.		
Thin Section Summary	The thin section covers a olivine-plagioclase phyric basalt nodule. The olivine is 100% recrystallized to iddingsite. Plagioclase grains display spongy textures within the cores with more pristine rims (sector zoned). Groundmass consists of trachytic plagioclase grains, iddingsite and glass. Palagonite rims are found infilling small vesicles.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]	Cross Polarized
Original (%) [ Or ]	5	10					3		
Present (%) [ Pr ]	0	7					0		
Replaced / Filled (%) [ Rf ]	5	3					3		
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK	
Minimum Size (mm)	0.25	0.75					0.05		
Maximum Size (mm)	0.75	5					0.25		
Modal Size (mm)	0.5	2.5					0.1		
Shape	anhedral	subhedral					subrounded		
Habit									
Zonation Type		Twinning;Sector							
Zonation Extent		Common							
Exsolution Type									
Special Features		Occasional spongy textures							
Comments	100% recrystallized to iddingsite	One very large grain (5 mm). Some spinel inclusions					Palagonite rimming/infilling.		



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [ Or ]	10	40					50	
Present (%) [ Pr ]	0	40					25	
Replaced / Filled (%) [ Rf ]	10	0					25	
Check [ Or = Pr + Rf ]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)	0.1	0.05						
Maximum Size (mm)	0.25	0.15						
Modal Size (mm)	0.2	0.1						
Shape	anhedral	subhedral						
Habit		laths						
Comments	100% iddingsite						Difficult to assess how altered the glass is (pitch black). May be magnetite rich.	