




General Information				Whole Rock	Transmitted Light
Sample Name (IGSN)	EX1606-D10-5				
Describer	Kevin Konrad				
Sample Location	Guyot 50 NM south of Wake				
Lithology prefix	Clinopyroxene				
General Lithology	Basalt				
Texture 1	Heavily Altered				
Texture 2	Vesicular				
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK		
Whole Rock Present (%)	5	Check [Or = Pr + Rf]	OK		
Whole Rock Replaced (%)	95	Check [Or = Pr + Rf]	OK		
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK		
Total Groundmass Present (%)	0	Check [Or = Pr + Rf]	OK		
Total Groundmass Replaced (%)	100	Check [Or = Pr + Rf]	OK		
Whole Rock Summary	A small basaltic clast within a botryoidal Mn nodule. A layer of phosphorite is found within the nodule. The basalt clast appears to be either aphyric or slightly plagioclase phyrlic.				
Thin Section Summary	A highly altered basalt clast that contains a few shards of clinopyroxene in an other completely recrystallized matrix. The vesicles and void spaces are filled with phosphorite or a fine grained serpentine like structure. A few vesicles are unfilled and contain a palagonite alteration halo. The clinopyroxene grains are mostly recrystallized to serpentine with the exception of a few relatively fresh shards of the individual grains. There is a secondary recrystallization phase that looks like a weird mixture between serpentine and phosphorite that replaces many of the phenocrysts (i don't know what it is). Sample may have had other phenocrysts but it's total gone now.				

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]	Cross Polarized
Original (%) [Or]				15			15	70	
Present (%) [Pr]				5			5	0	
Replaced / Filled (%) [Rf]				10			10	70	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK	
Minimum Size (mm)				0.7			0.1		
Maximum Size (mm)				1.5			1.2		
Modal Size (mm)				1			0.2		
Shape				anhedral			irregular		
Habit									
Zonation Type									
Zonation Extent									
Exsolution Type									
Special Features									
Comments				Almost all serpentine now, a few ~fresh shards about 250um in diameter can be found.			A lot of these 'vesicles' may be former phenocrysts that were gutted		

GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]								100
Present (%) [Pr]								0
Replaced / Filled (%) [Rf]								100
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)								
Maximum Size (mm)								
Modal Size (mm)								
Shape								
Habit								
Comments								Nothing primary remains