General Information				Whole Rock	Transmitted Light
Sample Name (IGSN)	EX1708-D9-2				
Describer	Kevin Konrad				
Sample Location	Verdi Seamount				
Lithology prefix					
General Lithology	Basalt				
Texture 1	Highly Altered				
Texture 2	Aphyric				
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK		
Whole Rock Present (%)	30	Check [Or = Pr + Rf]	OK		
Whole Rock Replaced (%)	70	Check [Or = Pr + Rf]	OK		
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK		
Total Groundmass Present (%)	30	Check [Or = Pr + Rf]	OK		
Total Groundmass Replaced (%)	70	Check [Or = Pr + Rf]	OK		
Whole Rock Summary	A highly vesicular basalt encased within a 5 cm thick FeMn crust. Sample is aphyric(?) and contains only a few regions with filled vesicles (phosphorite). Groundmass is grey with plagioclase microcrysts.				
Thin Section Summary	An aphyric holocrystalline basalt with plagioclase, talc (clinopyroxene?), spinel and clay/iddingsite (olivine). The sample is heavily altered with only some partially recrystallized plagioclase grains and spinel remaining. The sample may have a glass rind with some palagonite alteration but it's difficult to tell if it's glass or FeMn crust. Likely just FeMn layer, followed by a mottled FeMn-phosphorite layer then a thick FeMn layer.				
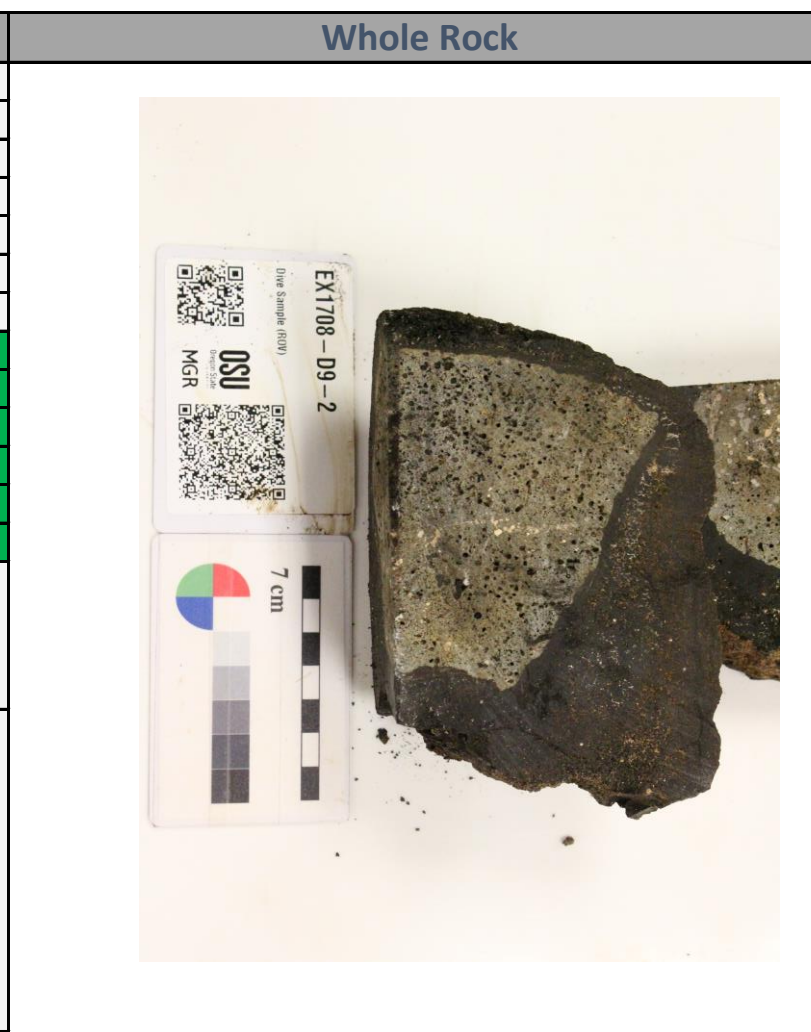
PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]	Cross Polarized
Original (%) [Or]							20		
Present (%) [Pr]							17		
Replaced / Filled (%) [Rf]							3		
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK	
Minimum Size (mm)							0.75		
Maximum Size (mm)							1.5		
Modal Size (mm)							1		
Shape							Rounded		
Habit									
Zonation Type									
Zonation Extent									
Exsolution Type									
Special Features									
Comments							Some clay infill		
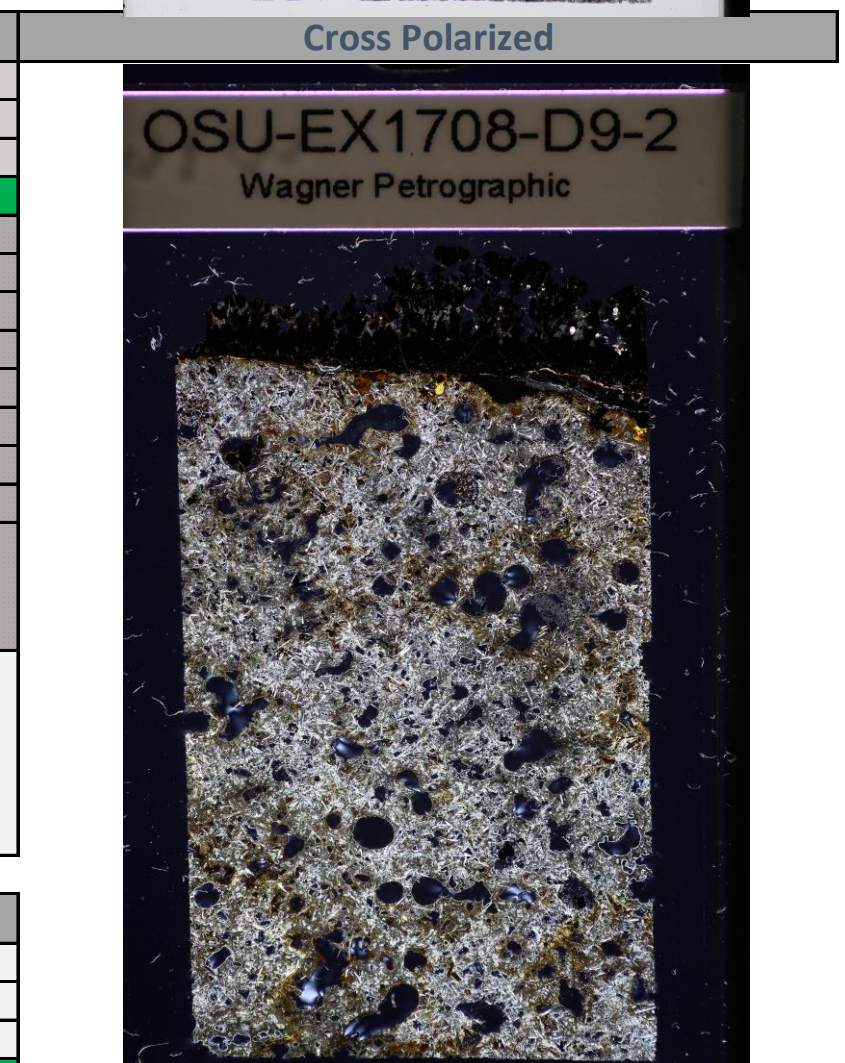
GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		30			10			60
Present (%) [Pr]		25			10			0
Replaced / Filled (%) [Rf]		5			0			60
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.1			0.1			
Maximum Size (mm)		0.5			0.3			
Modal Size (mm)		0.25			0.25			
Shape		subhedral			anhedral			
Habit		elongated laths						
Comments		Variolitic texture common			Difficult to assess how altered			Appears to be 100% altered