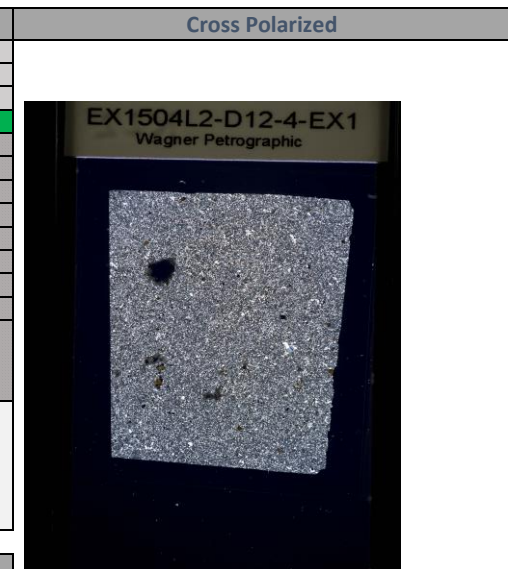


General Information			
Sample Name (IGSN)	EX1504L2-D12-4		
Describer	Kevin Konrad		
Sample Location	Southeast Pearl & Hermes Atoll		
Lithology prefix	Evolved		
General Lithology	basalt		
Texture 1	Porphyritic		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	70	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	30	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	50	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	50	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A fine grained basalt with alteration filled fractures. Contains a chunk of phosphorite attached to the rim followed by a Mn crust.		
Thin Section Summary	An unusual rock with radiating plagioclase and a mineral (likely clinopyroxene) with common intergrowth patterns. The currently uncertain mineral has tabular crystal shape with inclined extinction but 1st order yellow max birefringence. Groundmass consists of altered glass with sizeable opaques. Feldspars display rare twinning and zonation and don't appear to be nepheline. Sample is likely a trachyte or possible phonolite.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [Or]		2		2			3	93
Present (%) [Pr]		2		2			3	47
Replaced / Filled (%) [Rf]				0			0	47
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.15		0.15			0.1	
Maximum Size (mm)		0.25		0.25			0.3	
Modal Size (mm)		0.2		0.2			0.1	
Shape		subhedral		anhedral			irregular	
Habit								
Zonation Type		sector						
Zonation Extent		rare						
Exsolution Type								
Special Features		Twinning		Only first order yellow birefringence.				
Comments		Commonly intergrown with the pyroxene		No obvious cleavage; moderate relief; no pleochroism or color. Undulating extinction like			No infilling but commonly contain an alteration halo.	



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		40		20	15		25	
Present (%) [Pr]		30		15	15		0	
Replaced / Filled (%) [Rf]		10		5	0		25	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.015		0.015	0.015			
Maximum Size (mm)		0.05		0.035	0.05			
Modal Size (mm)		0.02		0.02	0.025			
Shape		lath						
Habit		radiating						
Comments		Radiating grains of plagioclase. Some alteration or replacement		Not sure what this grain is. Like a clinopyroxene but low birefringence			Looks hydrated and grey now.	