



General Information				Whole Rock	Transmitted Light
Sample Name (IGSN)	EX1605L1-D5-1				
Describer	Kevin Konrad				
Sample Location	Fina Nagu Caldera				
Lithology prefix	Plagioclase-pyroxene-spinel				
General Lithology	Andesite				
Texture 1	Vesicular				
Texture 2	trachytic				
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK		
Whole Rock Present (%)	100	Check [Or = Pr + Rf]	OK		
Whole Rock Replaced (%)	0	Check [Or = Pr + Rf]	OK		
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK		
Total Groundmass Present (%)	100	Check [Or = Pr + Rf]	OK		
Total Groundmass Replaced (%)	0	Check [Or = Pr + Rf]	OK		
Whole Rock Summary	A plagioclase phyrrix basalt or andesite with elongated and large vesicles. Appears relatively fresh.				
Thin Section Summary	A fresh basalt with glomerocrystic plagioclase, spinel, orthopyroxene and clinopyroxene clusters. Ophitic habits are common between the four phases. The plagioclase grains display albite twinning and sector zoning. The groundmass consists of a glassy mesostasis and trachytic plagioclase. The vesicles are elongated and aligned in the direction of the groundmass plagioclase.				

PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]	Cross Polarized
Original (%) [Or]		10	5	5	3		20	57	
Present (%) [Pr]		10	5	5	3		20	57	
Replaced / Filled (%) [Rf]		0	0	0	0		0	0	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK	
Minimum Size (mm)		0.25	0.25	0.25	0.25		1		
Maximum Size (mm)		1	0.5	0.8	0.4		3		
Modal Size (mm)		0.5	0.4	0.5	0.3		2		
Shape		euhedral	subhedral	subhedral	euhedral		elongated		
Habit									
Zonation Type		twinning, sector							
Zonation Extent		pervasive							
Exsolution Type									
Special Features		Display sector zoning	parallel extinction,	inclined extinction	Range from squares to triangles				
Comments							Elongated with rounded edges.		



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		20			5		75	
Present (%) [Pr]		20			5		75	
Replaced / Filled (%) [Rf]		0			0		0	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.01			0.001			
Maximum Size (mm)		0.03			0.01			
Modal Size (mm)		0.02			0.005			
Shape		euhedral			euhedral			
Habit								
Comments		Thin, elongated grains			little square specks		Seemingly fresh glass. Could be a very fine grained mesostasis	