



THIN SECTION:		U1311A 1R-1 26-29 cm		Piece No. 4		Unit:		TS#: 139		OBSERVER: MD, DC	
ROCK NAME:		Basalt									
GRAIN SIZE:		Fine-grained									
TEXTURE:		Intersertal, vesicular									
PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)			Composition	MORPHOLOGY	COMMENTS			
			min.	max.	av.						
Plagioclase	40		0.05	0.5	0.2		Acicular-prismatic	Seriate			
Plagioclase	5		<0.05				Anhedral, interstitial	In fine, quenched groundmass			
Clinopyroxene	50		na				Plumose	Groundmass, quench texture			
Olivine	5		0.1	0.3	0.25		Euhedral-subhedral	Mostly diamond or trapezoidal microphenocrysts			
Oxide	1-2		<0.01	0.2	0.01		Skeletal	Ilmenite?			
SECONDARY MINERALOGY	PERCENT		SIZE (micron)				REPLACING / FILLING	COMMENTS			
			min.	max.	av.						
Calcite	<1				30						
Orange-green smectite	1				50		In and around vesicles and some olivine	Mostly in alteration band in upper part of thin section			
TOTAL ALTERATION: 1%											
<p>STRUCTURE : Typical quenched pillow interior. 1 % vesicles, spherical, 0.2-0.3 mm, some partially or completely filled by residual basaltic liquid, most empty. Similar to Sample U1311A-1R-1, 76-78 cm from same flow, but with most olivine in partially disaggregated, subophitic, olivine-plagioclase crystal clots. Few euhedral quenched olivine microphenocrysts. Dark circular and irregular patches in groundmass suggest early alteration, most likely corresponding to liesegang bands in hand specimen.</p>											
<p>PHOTOMICROGRAPHS: 1311A_1R_1_26_29_1 1311A_1R_1_26_29_2</p>											



THIN SECTION:		U1311A 1R-1 76-78 cm		Piece No. 13	Unit: 1	TS#: 140	OBSERVER: MD, DC	
ROCK NAME:		Basalt						
GRAIN SIZE:		Fine-grained						
TEXTURE:		Intersertal, vesicular						
PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)			Composition	MORPHOLOGY	COMMENTS
			min.	max.	av.			
Plagioclase	40		0.05	0.5	0.2		Acicular-prismatic	Seriate
Plagioclase	5		<0.05				Anhedral, interstitial	In fine, quenched groundmass
Clinopyroxene	50		na				Plumose	Groundmass, quench texture
Olivine	5		0.1	0.3	0.25		Euhedral-subhedral	Mostly diamond or trapezoidal microphenocrysts
Oxide	1-2		<0.01	0.2	0.01		Skeletal	Ilmenite?
SECONDARY MINERALOGY	PERCENT		SIZE (micron)				REPLACING / FILLING	COMMENTS
			min.	max.	av.			
Yellow-green smectite	<1				20		In and around vesicles	Green smectite and amorphous orange material, mostly in and around vesicles.
TOTAL ALTERATION: <1%								
STRUCTURE : Typical quenched pillow interior. 2-3% vesicles, spherical, 0.2-0.3 mm, some partially or completely filled by residual basaltic liquid, some with secondary green smectite, most empty. Similar to Sample U1311A-1R-1, 26-29 cm from same flow, but with more euhedral quenched olivine and fewer olivine-plagioclase crystal clots.								
PHOTOMICROGRAPHS:								
1311A_1R_1_76_78_1								
1311A_1R_1_76_78_2								