



THIN SECTION:	324-U1350A-7R-1-W 51_53-TS264		Piece No:		Unit:2	OBSERVER:THIN SECTION:TS264	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	middle part of massive inflation unit						
GRAINSIZE:	microcrystalline [324]						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
plagioclase	0.1	10		0.2x0.2	0.2x0.2	tabular	
VESICLES	15			8	0.6	moderately spherical	
GROUNDMASS	100						
glass	60	100					
plagioclase	25	10		0.3x0.02	0.1x0.02	acicular	
pyroxene	10	30		0.1x0.1	0.1x0.1	subhedral	
opaque Minerals	5	50		0.1x0.05	0.05x0.05	subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	100					glass	
brown clays	30					pyroxene	
brown clays	10					plagioclase	
saponite	5					vesicle	
calcite	95					vesicle	
STRUCTURE	Polycrystalline calcite veins are connecting amygdules filled with calcite. No structure in groundmass.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Microcrystalline; Middle part of massive flow; Vesicularity 15%; Crystallinity: 40%; Alteration Degree: 68%; Vein Filling: Calcite and Saponite; Vesicle Filling: Calcite and Saponite; Structure: Polycrystalline calcite veins are connecting amygdules filled with calcite. No structure in groundmass.						



THIN SECTION:	324-U1350A-7R-1-W 122_123-TS265			Piece No:		Unit:2	OBSERVER:THIN SECTION:TS265
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	middle part of massive inflation unit						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
plagioclase	0.1	10		0.4x0.3	0.4x0.3	tabular	
VESICLES	1			2	0.6	elongate	
GROUNDMASS	100						
plagioclase	40	10		0.3x0.05	0.2x0.02	acicular	
opaque Minerals	7	50		0.05x0.05	0.02x0.02	subhedral	
pyroxene	5	50		0.1x0.1	0.1x0.05	subhedral	
glass	48	100					
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
calcite	20					glass	
brown clays	10					plagioclase	
brown clays	50					pyroxene	
brown clays	80					glass	
STRUCTURE	No structure.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Middle part of massive flow; Vesicularity 1%; Crystallinity: 52%; Alteration Degree: 58%; Vein Filling: No; Structure: No structure in groundmass.						



THIN SECTION:	324-U1350A-8R-1-W 42_45-TS266		Piece No:		Unit:4	OBSERVER:THIN SECTION:TS266	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	middle part of massive inflation unit						
GRAINSIZE:	microcrystalline [324]						
TEXTURE:	intersertal, aphyric						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
VESICLES	0.5			0.2	0.2	low sphericity	
GROUNDMASS	100						
pyroxene	7	40		0.1x0.05	0.02x0.02		
plagioclase	40	10		0.2x0.05	0.1x0.02		
glass	48						
opaque Minerals	5	30		0.05x0.02	0.02x0.02		
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	95					glass	
calcite	5					glass	
brown clays	40					pyroxene	
brown clays	10					plagioclase	
STRUCTURE	Thin veins of calcite and opaque mineral are Y-shaped. No structure in groundmass.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Microcrystalline; Middle part of massive flow; Vesicularity 0%; Crystallinity: 52%; Alteration Degree: 54%; Vein Filling: Calcite and Pyrite; Structure: Thin veins of calcite and opaque mineral are Y-shaped. No structure in groundmass.						



THIN SECTION:	324-U1350A-8R-1-W 54_58-TS267		Piece No:		Unit:4	OBSERVER:THIN SECTION:TS267	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	middle part of massive flow unit						
GRAINSIZE:	microcrystalline [324]						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
plagioclase	0.1			0.4x0.2	0.4x0.2	tabular	
VESICLES	0						
GROUNDMASS	100						
plagioclase	40	10		0.2x0.02	0.1x0.02	acicular	
pyroxene	10	50		0.1x0.1	0.1x0.05	subhedral	
glass	43	95					
opaque Minerals	7	50		0.02x0.02	0.02x0.02	subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	50					pyroxene	
brown clays	10					plagioclase	
brown clays	100					glass	
STRUCTURE	Syntaxial calcite veins is cut by antiaxial calcite vein. No structure in groundmass.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Microcrystalline; Middle part of massive flow; Vesicularity 0%; Crystallinity: 57%; Alteration Degree: 55%; Vein Filling: Calcite and Pyrite; Structure: Syntaxial calcite veins are cut by antiaxial calcite vein. No structure in groundmass.						



THIN SECTION:	324-U1350A-8R-1-W 133_135-TS269		Piece No:		Unit:5	OBSERVER:THIN SECTION:TS269
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	piece of glassy part					
GRAINSIZE:	very fine grained					
TEXTURE:	aphyric,hyalophyric					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					COMMENTS
MICROPHENOCRYST						
plagioclase	0.1	5		0.8x0.4	0.5x0.2	tabular
VESICLES	7			0.8	0.2	elongate
GROUNDMASS	100					
pyroxene	2	5		0.5x0.3	0.3x0.3	subhedral
plagioclase	5	5		0.3x0.05	0.2x0.05	acicular
glass	93	0				
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	5					plagioclase
						pyrite grains are disseminated in the groundmass
brown clays	5					pyroxene
palagonite						vesicle
STRUCTURE	Subophitic structure.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Hyalophyric Basalt; Very fine grained; Piece of glassy part; Vesicularity 7%; Crystallinity: 7%; Alteration Degree: 0%; Vesicle Filling: Palagonite; Structure: Subophitic structure.					



THIN SECTION:	324-U1350A-8R-2-W 53_55-TS270		Piece No:		Unit:6	OBSERVER:THIN SECTION:TS270
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	middle part of inflation unit					
GRAINSIZE:	very fine grained					
TEXTURE:	aphyric, intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					
plagioclase	0.1			2.2x0.4	1.2x0.4	tabular
MICROPHENOCRYST						
plagioclase	0.1			0.8x0.8	0.8x0.8	tabular
VESICLES	5			5	2	moderately spherical
GROUNDMASS	100					
plagioclase	45			0.6x0.1	0.4x0.1	acicular
opaque Minerals	1			0.02x0.02	0.02x0.02	subhedral
glass	47					
pyroxene	7			0.3x0.3	0.1x0.1	subhedral
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	25					pyroxene
brown clays	100					glass
brown clays	80					plagioclase
brown clays	15					plagioclase
dark brown clays						vesicle
STRUCTURE	Subophitic structure.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Middle part of massive flow; Vesicularity 5%; Crystallinity: 53%; Alteration Degree: 85%; Vesicle Filling: dark brown clays; Structure: Subophitic structure.					



THIN SECTION:	324-U1350A-8R-3-W 81_84-TS271		Piece No:		Unit:7	OBSERVER:THIN SECTION:TS271
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	middle part of inflation unit					
GRAINSIZE:	very fine grained					
TEXTURE:	intersertal,aphyric					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					
plagioclase	0.1			2.4x0.6	2.4x0.6	tabular
MICROPHENOCRYST						
plagioclase	0.1			0.8x0.3	0.5x0.3	tabular
VESICLES	5			1.4	0.5	moderately spherical
GROUNDMASS	100					
plagioclase	50			0.4x0.05	0.3x0.05	acicular
glass	38					
opaque Minerals	5			0.1x0.1	0.1x0.05	subhedral
pyroxene	7			0.3x0.3	0.2x0.2	subhedral
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
calcite	15					glass
brown clays	15					plagioclase
brown clays	85					glass
brown clays	40					pyroxene
calcite	50					vesicle
brown clays	48					vesicle
						as rim with Fe-oxides around the calcite vesicle
pyrite	2					
STRUCTURE	Polycrystalline calcite vein is connecting amygdules filled by calcite. No structure in groundmass.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Middle part of massive flow; Vesicularity 5%; Crystallinity: 62%; Alteration Degree: 50%; Vein Filling: Calcite, Pyrite and Zeolite; Vesicle Filling: Calcite, Pyrite and brown Clay; Structure: Polycrystalline calcite vein is connecting amygdules filled by calcite. No structure in groundmass.					



THIN SECTION:	324-U1350A-9R-2-W 55_60-TS272		Piece No:		Unit:10	OBSERVER:THIN SECTION:TS272	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	flow interior with horizontal melt segregation						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
VESICLES	10			4	1.2	elongate	
GROUNDMASS	100						
glass	60	100					
pyroxene	15	30		0.5x0.4	0.4x0.4	subhedral	
opaque Minerals	5	10		0.2x0.1	0.1x0.1	subhedral	
plagioclase	20	15		0.8x0.1	0.5x0.1	acicular	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	30					pyroxene	
brown clays	15					plagioclase	
brown clays	100					glass	pyrite is present in the groundmass
brown clays						vesicle	associated with Fe-oxides as alteration of segregation vesicle
calcite						vesicle	
pyrite						vesicle	
STRUCTURE	Polycrystalline curved and irregular calcite veins						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric hyalophytic Basalt; Very fine grained; Chilled margin of flow unit; Vesicularity 10%; Crystallinity: 5%; Alteration Degree: 95%; Vein Filling: none; Vesicle Filling: Saponite, Pyrite; Structure: Dendritic texture in the melt-segregated part.						



THIN SECTION:	324-U1350A-9R-4-W 84_87-TS273		Piece No:		Unit: 11	OBSERVER: THIN SECTION: TS273
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	melt segregation of flow interior					
GRAIN SIZE:	very fine grained					
TEXTURE:	aphyric, intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					
plagioclase	0.1			1.2x0.4	1.2x0.4	tabular
MICROPHENOCRYST						
plagioclase	0.1			0.5x0.5	0.5x0.5	tabular
VESICLES	7			0.8	0.2	low sphericity
GROUNDMASS	100					
opaque Minerals	5	40		0.1x0.1	0.1x0.05	subhedral
pyroxene	15	20		0.3x0.2	0.05x0.05	subhedral
glass	65	100				
plagioclase	15	10		0.4x0.05	0.3x0.05	acicular
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	100					olivine
brown clays	20					pyroxene
brown clays	3					plagioclase
brown clays	100					glass
brown clays	10					plagioclase
STRUCTURE	Larger amygdules and laths concentrate in melt segregation.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Melt segregation of flow interior; Vesicularity 7%; Crystallinity: 35%; Alteration Degree: 71%; Vein Filling: none; Vesicle Filling: none; Structure: Larger amygdules and laths concentrate in melt segregation.					



THIN SECTION:	324-U1350A-10R-2-W 33_35-TS274		Piece No:		Unit:12	OBSERVER:THIN SECTION:TS274	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	middle part of flow unit						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
plagioclase	0.1	3		1x0.4	1x0.4	tabular	
MICROPHENOCRYST							
plagioclase	0.1	3		0.8x0.6	0.5x0.4	tabular	
VESICLES	10			2.4	1.4	low sphericity	
GROUNDMASS	100						
glass	66	100					
plagioclase	25	20		0.5x0.1	0.4x0.1	acicular	
opaque minerals	2	30		0.02x0.02	0.02x0.02	subhedral	
pyroxene	7	30		0.2x0.2	0.1x0.1	subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	20					plagioclase	
brown clays	100					glass	
brown clays	30					titano-magnetite	
brown clays	30					pyroxene	
STRUCTURE	Large vesicles surrounded by fine-grained groundmass.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Middle part of massive flow; Vesicularity 10%; Crystallinity: 34%; Alteration Degree: 74%; Vein Filling: none; Vesicle Filling: Brown clay, pyrite; Structure: Large vesicles surrounded by fine-grained groundmass.						



THIN SECTION:	324-U1350A-11R-1-W 57 59-TS275		Piece No:		Unit:12	OBSERVER:THIN SECTION:TS275
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	flow interior with pipe vesicle					
GRAINSIZE:	very fine grained					
TEXTURE:	aphyric, intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					
plagioclase	0.1	5		1.0x0.8	1.0x0.8	tabular
MICROPHENOCRYST						
VESICLES	20			8	4	elongate
GROUNDMASS	100					
opaque Minerals	5	20		0.05x0.02	0.02x0.02	subhedral
plagioclase	25	15		0.6x0.1	0.4x0.1	acicular
pyroxene	7	30		0.4x0.3	0.1x0.1	subhedral
glass	63	100				
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	30					pyroxene
brown clays	100					glass
						pyrite is present disseminated in the groundmass
brown clays	5					plagioclase
brown clays	15					plagioclase
pyrite						vesicle
dark brown clays						vesicle
						in the rim of the vesicles
calcite						vesicle
						associated as Fe-oxides as rim around the vesicles
STRUCTURE	Large vesicles surrounded by fine-grained groundmass.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Flow interior with pipe vesicle; Vesicularity 20%; Crystallinity: 37%; Alteration Degree: 70%; Vein Filling: none; Vesicle Filling: Calcite, B25brown clay, pyrite; Structure: Large bubbles surrounded by fine-grained groundmass.					



THIN SECTION:	324-U1350A-11R-2-W 80_83-TS277		Piece No:		Unit:14	OBSERVER:THIN SECTION:TS277	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	interior of flow unit						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
plagioclase	0.1	5		0.9x0.4	0.9x0.4	tabular	
VESICLES	7			4	0.8	moderately spherical	
GROUNDMASS	100						
pyroxene	20	30		0.2x0.2	0.2x0.1	subhedral	
plagioclase	40	10		0.4x0.05	0.3x0.05	acicular	
glass	30	100					
opaque Minerals	10	15		0.1x0.1	0.1x0.05	subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
calcite	10					plagioclase	
calcite	20					glass	
brown clays	80					glass	
calcite	30					pyroxene	
calcite	15					titano-magnetite	
pyrite	20					vesicle	
dark brown clays						vesicle	as rim around the vesicle
calcite	80						
STRUCTURE	No structure.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric intersertal Basalt; Very fine grained; Interior of flow unit; Vesicularity 7%; Crystallinity: 70%; Alteration Degree: 41%; Vein Filling: none; Vesicle Filling: Calcite, Pyrite, Brown Clay; Structure: none						



THIN SECTION:	324-U1350A-12R-1-W 65_67-TS278		Piece No:		Unit:15	OBSERVER:THIN SECTION:TS278	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	interior of flow unit						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
plagioclase	0.1	5		1.6x0.5	1.2x0.4	tabular	
MICROPHENOCRYST							
plagioclase	1			0.8x0.15	0.6x0.4	tabular	
VESICLES	2			2.2	1	low sphericity	
GROUNDMASS	99						
pyroxene	7	25		0.2x0.2	0.1x0.1	subhedral	
glass	68	100					
plagioclase	20	15		0.5x0.05	0.3x0.02	acicular	
opaque Minerals	5	30		0.1x0.1	0.1x0.05	subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	25					pyroxene	
brown clays	100					glass	
brown clays	15					plagioclase	
brown clays	5					plagioclase	
dark brown clays						vesicle	associated with Fe-oxides as rim around the vesicles
calcite	100					vesicle	
STRUCTURE	Laths make flow structures.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of flow unit; Vesicularity 2%; Crystallinity: 33%; Alteration Degree: 72%; Vein Filling: Pyrite; Vesicle Filling: Calcite and Brown Clay; Structure: Partly laths make flow structures.						



THIN SECTION:	324-U1350A-13R-2-W 65_70-TS280		Piece No:		Unit:17	OBSERVER:THIN SECTION:TS280	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	flow interior with pipe vesicle						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
plagioclase	0.1	2		1.2x0.8	1x0.4	tabular	
MICROPHENOCRYST							
plagioclase	1	2		0.6x0.4	0.5x0.1	tabular	
VESICLES	20			3.2	1.6	elongate	
GROUNDMASS	99						
glass	59	100					
pyroxene	10	20		0.2x0.1	0.1x0.1	subhedral	
opaque Minerals	1	30		0.05x0.05	0.05x0.02	subhedral	
plagioclase	30	10		0.4x0.1	0.4x0.05	acicular	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
calcite	20					glass	
brown clays	20					pyroxene	
brown clays	80					glass	
brown clays	10					plagioclase	
calcite	100					olivine	
calcite	100					vesicle	
pyrite							
brown clays						vesicle	as rim around the vesicle
STRUCTURE	Large vesicles surrounded by fine-grained groundmass.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of flow unit; Vesicularity 20%; Crystallinity: 42%; Alteration Degree: 64%; Vein Filling: none; Vesicle Filling: Calcite, Brown Clay, Pyrite and Nontronite in pipe vesicles; Structure: Large vesicles surrounded by fine-grained groundmass.						



THIN SECTION:	324-U1350A-14R-1-W 56_60-TS281		Piece No:		Unit:20	OBSERVER:THIN SECTION:TS281
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	flow interior with melt segregation					
GRAINSIZE:	very fine grained					
TEXTURE:	aphyric, intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					
plagioclase	0.1	10		2.2x0.4	1.2x0.3	tabular
MICROPHENOCRYST						
olivine	0.1	100		0.6x0.4	0.5x0.4	subhedral
plagioclase	1	10		0.9x0.4	0.8x0.2	tabular
VESICLES	7			4	0.8	low sphericity
GROUNDMASS	99					
pyroxene	7	30		0.2x0.2	0.1x0.1	subhedral
glass	63	100				
plagioclase	25	10		0.6x0.1	0.4x0.05	acicular
opaque Minerals	5	40		0.1x0.1	0.05x0.05	subhedral
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	30					pyroxene
calcite	100					olivine
calcite	30					glass
brown clays	70					glass
brown clays	10					plagioclase
brown clays	10					
STRUCTURE	Thin curved and irregular veins are heterogeneously distributed.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Flow interior with melt segregation; Vesicularity 7%; Crystallinity: 38%; Alteration Degree: 69%; Vein Filling: Calcite and Pyrite; Vesicle Filling: Calcite, Pyrite; Structure: Bubbles are concentrated in melt-segregation banding. Thin curved and irregular veins are heterogeneously distributed.					



THIN SECTION:	324-U1350A-15R-1-W 34_36-TS284		Piece No:		Unit:25	OBSERVER:THIN SECTION:TS284	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	chilled margin with fresh glass						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric,hyalophytic						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
plagioclase	0.1	5		1.2x0.8	1x0.6	tabular	
MICROPHENOCRYST							
plagioclase	1	5		0.8x0.2	0.6x0.2	tabular	
VESICLES	5			4	0.8	moderately spherical	
GROUNDMASS	99						
glass	94	100					
plagioclase	5	5		0.3x0.05	1x0.6	acicular	
pyroxene	1	5		0.2x0.2	0.6x0.2	subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	5					plagioclase	
brown clays	100					glass	90% spherulites
brown clays	5					pyroxene	
brown clays	100					olivine	likley altered to saponite
saponite	100					vesicle	
STRUCTURE	Thin veins are heterogeneously distributed. No structure in groundmass.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Hyalophytic Basalt; Very fine grained; Chilled margin with fresh glass; Vesicularity 5%; Crystallinity: 7%; Alteration Degree: 93%; Vein Filling: none; Vesicle Filling: Saponite; Structure: Thin veins are heterogeneously distributed. No structure in groundmass.						



THIN SECTION:	324-U1350A-15R-1-W 123_ 125-TS283		Piece No:		Unit:25	OBSERVER:THIN SECTION:TS283	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	interior of flow unit						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
plagioclase	1	5		0.8x0.6	0.6x0.2	tabular	
VESICLES	2			1.6	0.8	moderately spherical	
GROUNDMASS	99						
glass	56	100					
plagioclase	35	15		0.5x0.1	0.4x0.05	acicular	
pyroxene	7	30		0.3x0.3	0.1x0.1	subhedral	
opaque Minerals	2	20		0.1x0.1	0.1x0.05	subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	100					glass	
brown clays	15					plagioclase	
brown clays	30					pyroxene	
brown clays	5					plagioclase	
brown clays						vesicle	thin rim of brown clays around the vesicles - the inner central part being empty
STRUCTURE	No structure.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of flow unit; Vesicularity 2%; Crystallinity: 45%; Alteration Degree: 63%; Vein Filling: none; Vesicle Filling: Brown Clay; Structure: none						



THIN SECTION:	324-U1350A-15R-2-W 88_91-TS286		Piece No:		Unit:25	OBSERVER:THIN SECTION:TS286
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	interior of flow unit					
GRAINSIZE:	very fine grained					
TEXTURE:	aphyric, intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					
plagioclase	0.1	10		1.4x0.3	1x0.3	tabular
MICROPHENOCRYST						
plagioclase	1	10		0.7x0.2	0.6x0.2	tabular
VESICLES	1			0.8	0.3	moderately spherical
GROUNDMASS	99					
pyroxene	3	60		0.1x0.1	0.1x0.05	subhedral
glass	77	100				
plagioclase	15	15		0.2x0.02	0.15x0.02	acicular
opaque Minerals	5	20		0.02x0.02	0.01x0.01	subhedral
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	60					pyroxene
brown clays	10					plagioclase
brown clays	95					olivine
brown clays	95					glass
calcite	5					glass
brown clays	15					plagioclase
calcite	5					
saponite						vesicle
STRUCTURE	Thin veins filled with opaque and clay minerals. No structure in groundmass.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of flow unit; Vesicularity 1%; Crystallinity: 24%; Alteration Degree: 81%; Vein Filling: Pyrite; Vesicle Filling: Saponite; Structure: Thin veins filled with opaque and clay minerals. No structure in groundmass.					



THIN SECTION:	324-U1350A-16R-2-W 26_29-TS287		Piece No:		Unit:27	OBSERVER:THIN SECTION:TS287
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	interior of flow unit					
GRAINSIZE:	very fine grained					
TEXTURE:	aphyric, intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					
plagioclase	0.1	2		1.6x1.0	1.6x1.0	tabular
MICROPHENOCRYST						
plagioclase	1	2		0.9x0.3	0.8x0.2	tabular
VESICLES	1			0.6	0.4	moderately spherical
GROUNDMASS	99					
opaque Minerals	1	40		0.1x0.1	0.05x0.05	subhedral
plagioclase	60	5		0.4x0.05	0.3x0.05	acicular
pyroxene	30	10		0.3x0.2	0.2x0.2	subhedral
glass	9	100				
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	100					glass
brown clays	2					plagioclase
brown clays	10					pyroxene
saponite	100					olivine
brown clays	5					plagioclase
saponite	97					vesicle
pyrite	3					
STRUCTURE	No structure in groundmass.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of flow unit; Vesicularity 1%; Crystallinity: 91%; Alteration Degree: 15%; Vein Filling: Calcite and Pyrite; Vesicle Filling: Saponite and Pyrite; Structure: Antitaxial vein cut by polycrystalline vein. No structure in groundmass.					



THIN SECTION:	324-U1350A-16R-3-W 35_39-TS288		Piece No:		Unit:27	OBSERVER:THIN SECTION:TS288	
ROCK NAME:	sparsely phyric basalt						
WHERE SAMPLED:	interior of flow unit						
GRAINSIZE:	very fine grained						
TEXTURE:	intersertal,sparsely phyric						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	1						
plagioclase	1	2		1.4x1	1.2x0.4	tabular	
MICROPHENOCRYST							
plagioclase	0.1	2		0.8x0.4	0.6x0.4	tabular	
VESICLES	0						
GROUNDMASS	99						
plagioclase	50	5		0.5x0.05	0.4x0.02	acicular	
pyroxene	30	5		0.4x0.2	0.2x0.2	subhedral	
glass	18	100					
opaque Minerals	2	15		0.1x0.1	0.05x0.05	subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
saponite	100					olivine	
brown clays	5					plagioclase	
brown clays	100					glass	
brown clays	2					plagioclase	
brown clays	5					pyroxene	
STRUCTURE	Subophitic structures.						
COMMENTS							
SUMMARY DESCRIPTION	Sparsely Phyric Intersertal Basalt; Very fine grained; Interior of flow unit; Vesicularity 0%; Crystallinity: 82%; Alteration Degree: 22%; Vein Filling: Calcite, Brown Clay and Pyrite; Vesicle Filling: none; Structure: Thick polycrystalline veins. Subophitic structures.						



THIN SECTION:	324-U1350A-16R-3-W 70_74-TS289		Piece No:		Unit:27	OBSERVER:THIN SECTION:TS289	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	flow interior with secondary vein						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
plagioclase	0.1	5		1.8x0.6	1.0x0.8	tabular	
MICROPHENOCRYST							
plagioclase	1	5		0.8x0.2	0.7x0.2	tabular	
olivine	0.1	100		0.9x0.8	0.3x0.3	subhedral	
pyroxene	0.1	40		0.3x0.3	0.3x0.3	subhedral	
VESICLES	1			0.4	0.3	highly spherical	
GROUNDMASS	99						
plagioclase	40	15		0.4x0.05	0.3x0.02	acicular	
glass	49	100					
pyroxene	10	40		0.3x0.3	0.3x0.2	subhedral	
opaque Minerals	1	10		0.05x0.05	0.02x0.02	subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	40					pyroxene	
saponite	95					olivine	
brown clays	15					plagioclase	
brown clays	100					glass	
brown clays	5						
calcite	5					olivine	
brown clays						vesicle	
calcite						vesicle	
STRUCTURE	Massive structure with subhorizontal syntaxial veins and antiaxial subvertical veins filled by calcite. Veins have two types of textures of polycrystalline and cross-fibers.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Flow interior of strongly veined basalt; Vesicularity 1%; Crystallinity: 52%; Alteration Degree: 59%; Vein Filling: Calcite or calcite with brown clays; Vesicle Filling: Calcite and brown clays; Structure: Massive structure with subhorizontal syntaxial veins and antiaxial subvertical veins filled by calcite.						



THIN SECTION:	324-U1350A-17R-1-W 20_24-TS290		Piece No:		Unit:28	OBSERVER:THIN SECTION:TS290	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	interior of flow unit						
GRAIN SIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
plagioclase	0.1	30		4x0.2	4x0.2	tabular	
MICROPHENOCRYST							
pyroxene	0.1	5		0.8x0.6	0.4x0.2	tabular	
VESICLES	7			1.4	0.6	low sphericity	
GROUNDMASS	100						
opaque Minerals	2	20		0.05x0.05	0.02x0.02	subhedral	
pyroxene	5	50		0.1x0.1	0.1x0.1	subhedral	
glass	78	100					
plagioclase	15	30		0.4x0.1	0.2x0.05	acicular	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	5					pyroxene	
brown clays	100					glass	
brown clays	30					plagioclase	
brown clays	50					pyroxene	
empty						vesicle	
STRUCTURE	Massive structure in the groundmass. Sparse plagioclase phenocryst is very long.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of basalt flow; Vesicularity 7%; Crystallinity: 22%; Alteration Degree: 85%; Vein Filling: None; Vesicle Filling: None; Structure: Massive structure in the groundmass. Sparse plagioclase phenocryst is very long.						



THIN SECTION:	324-U1350A-17R-2-W 19_20-TS291		Piece No:		Unit:30	OBSERVER:THIN SECTION:TS291
ROCK NAME:	sparsely phyric basalt					
WHERE SAMPLED:	interior of flow unit					
GRAINSIZE:	very fine grained					
TEXTURE:	sparsely phyric, intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	1					
plagioclase	1	10		1.6x1.2	1x0.6	tabular
MICROPHENOCRYST						
plagioclase	1	10		0.6x0.4	0.6x0.4	tabular
VESICLES	7			4	2	moderately spherical
GROUNDMASS	98					
plagioclase	25	15		0.4x0.02	0.3x0.02	acicular
glass	60	100				
pyroxene	10	40		0.1x0.1	0.1x0.05	subhedral
opaque Minerals	5	50		0.02x0.02	0.02x0.02	subhedral
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	10					plagioclase
brown clays	15					plagioclase
brown clays	40					pyroxene
brown clays	100					glass
dark brown clay						vesicle
pyrite						vesicle
STRUCTURE	Empty vesicles and massive structure in groundmass, one vein filled with polycrystalline calcite in the middle and yellow clay on the both sides.					
COMMENTS						
SUMMARY DESCRIPTION	Sparsely Plagioclase Phyric Intersertal Basalt; Very fine grained; Interior of basalt flow; Vesicularity 7%; Crystallinity: 41%; Alteration Degree: 69%; Vein Filling: None; Calcite, dark brown clays and pyrite; Vesicle Filling: Dark brown clays and pyrite; Structure: Massive structure in groundmass, one vein filled with polycrystalline calcite in the middle and yellow clay on the both sides.					



THIN SECTION:	324-U1350A-17R-2-W 100_102-TS292		Piece No:		Unit:31	OBSERVER:THIN SECTION:TS292
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	interior of flow unit					
GRAIN SIZE:	very fine grained					
TEXTURE:	hyalophytic, aphyric					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					
plagioclase	0.1	5		1.2x0.4	1.2x0.4	tabular
MICROPHENOCRYST						
plagioclase	0.1	5		0.6x0.3	0.4x0.2	tabular
VESICLES	5			2	1.4	highly spherical
GROUNDMASS						
plagioclase	10	50		0.4x0.05	0.3x0.02	acicular
opaque Minerals	1	0		0.01x0.01	0.01x0.01	subhedral
glass	86	100				
pyroxene	3	5		0.3x0.3	0.3x0.2	subhedral
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	5					plagioclase
brown clays	50					plagioclase
brown clays	5					pyroxene
saponite	100					olivine
brown clays	100					glass
brown clays	5					pyroxene
STRUCTURE	Amygdaloidal and massive structures, some phenocrysts have weakly oriented.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Hyalophytic Basalt; Very fine grained; Interior of basalt flow; Vesicularity 5%; Crystallinity: 14%; Alteration Degree: 91%; Vein Filling: Calcite, pyrite and brown clays; Vesicle Filling: None; Structure: Amygdaloidal and massive structures, some phenocrysts have weakly oriented.					



THIN SECTION:	324-U1350A-17R-2-W 137_139-TS293			Piece No:		Unit:33	OBSERVER:THIN SECTION:TS293
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	interior of flow unit						
GRAINSIZE:	very fine grained						
TEXTURE:	hyalophytic,aphyric						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
plagioclase	0.1	2		1x0.3	1x0.3	tabular	
MICROPHENOCRYST							
plagioclase	0.1	2		0.8x0.2	0.6x0.2	tabular	
VESICLES	1			1.6	0.6	highly spherical	
GROUNDMASS	100						
opaque Minerals	1	0		0.01x0.01	0.01x0.01	subhedral	
plagioclase	10	20		0.5x0.05	0.3x0.02	acicular	
pyroxene	5	5		0.3x0.2	0.2x0.1	subhedral	
glass	84	100					
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	5					pyroxene	
brown clays	50					olivine	
brown clays	5					pyroxene	
calcite	50					olivine	
brown clays	100					glass	
brown clays	20					plagioclase	
brown clays	2						
calcite						vesicle	
brown clays						vesicle	
STRUCTURE	Amygdaloidal and massive structures, some phenocrysts have weakly oriented.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Hyalophytic Basalt; Very fine grained; Interior of basalt flow; Vesicularity 1%; Crystallinity: 16%; Alteration Degree: 86%; Vein Filling: None; Vesicle Filling: Calcite and brown clays; Structure: Amygdaloidal and massive structures, some phenocrysts have weakly oriented.						



THIN SECTION:	324-U1350A-17R-3-W 87_88-TS294			Piece No:		Unit:34	OBSERVER:THIN SECTION:TS294
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	flow interior						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0.1						
plagioclase	0.1	10		1.0x0.3	1.0x0.3	tabular	
MICROPHENOCRYST							
plagioclase	0.1	10		0.6x0.3	0.6x0.3	tabular	
VESICLES	0.5			0.2	0.1	moderately spherical	
GROUNDMASS	100						
glass	40	100					
plagioclase	30	10		0.9x0.08	0.6x0.05	acicular	
opaque Minerals	5	0		0.18x0.03	0.15x0.02	skeletal	
pyroxene	25	15		0.5x0.3	0.28x0.12	subhedral	
SECONDARY							
MINERALOGY			SIZE(mm)				
			min.	max.	mode.	REPLACING/FILLING	COMMENTS
calcite	50					olivine	
saponite	50					olivine	
brown clays	15					pyroxene	
brown clays	100					Glass	
brown clays	10					plagioclase	
calcite						vesicle	
brown clays							
STRUCTURE	Massive structure.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of basalt flow; Vesicularity 0%; Crystallinity: 60%; Alteration Degree: 47%; Vein Filling: None; Vesicle Filling: Calcite and brown clays; Structure: Massive structure.						



THIN SECTION:	324-U1350A-18R-1-W 114_ 116-TS295		Piece No:		Unit:36	OBSERVER:THIN SECTION:TS295	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	flow interior						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
VESICLES	3			0.5	0.3	low sphericity	
GROUNDMASS	100						
plagioclase	40	10		0.8x0.08	0.5x0.05	acicular	
glass	20	100					
pyroxene	35	30		0.4x0.3	0.3x0.2	subhedral to anhedral	
opaque Minerals	5	20		0.05x0.04	0.03x0.01	euheral, skeletal	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
saponite	50					olivine	
calcite	50					olivine	
calcite	20					glass	
brown clays	10					plagioclase	
brown clays	30					pyroxene	
brown clays	80					glass	
calcite						vesicle	
pyrite						vesicle	
STRUCTURE	Pipe vesicle, massive structure.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of basalt flow; Vesicularity 3%; Crystallinity: 80%; Alteration Degree: 36%; Vein Filling: None; Vesicle Filling: Calcite and pyrite; Structure: Pipe vesicle, massive structure.						



THIN SECTION:	324-U1350A-18R-3-W 79_80-TS296		Piece No:		Unit:37	OBSERVER:THIN SECTION:TS296
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	flow interior					
GRAINSIZE:	very fine grained					
TEXTURE:	intersertal,aphyric					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0.1					
plagioclase	0.1	5		1.0x0.4	1.0x0.4	tabular
MICROPHENOCRYST						
plagioclase	0.1	5		0.5x0.3	0.4x0.3	tabular
VESICLES	1			0.9	0.5	highly elongate
GROUNDMASS	100					
pyroxene	20	5		0.5x0.4	0.4x0.3	subhedral
plagioclase	20	5		0.8x0.08	0.6x0.05	acicular
glass	52	100				
Opaque Minerals	8	0		0.3x0.05	0.15x0.02	skeletal
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	5					plagioclase
brown clays	5					pyroxene
calcite	50					olivine
brown clays	100					glass
brown clays	5					plagioclase
saponite	50					olivine
calcite						
STRUCTURE	Massive structure with amygdaloidal structure.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of basalt flow; Vesicularity <1%; Crystallinity: 48%; Alteration Degree: 54%; Vein Filling: None; Vesicle Filling: Calcite; Structure: Massive structure with amygdaloidal structure.					



THIN SECTION:	324-U1350A-19R-1-W 95_96-TS297		Piece No:		Unit:38	OBSERVER:THIN SECTION:TS297
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	interior of flow unit					
GRAINSIZE:	very fine grained					
TEXTURE:	aphyric, intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					COMMENTS
MICROPHENOCRYST						
VESICLES	0.5			0.8	0.4	moderately spherical
GROUNDMASS	100					
opaque Minerals	1	10		0.1x0.1	0.05x0.05	subhedral
pyroxene	5	30		0.3x0.3	0.2x0.1	subhedral
glass	69	100				
plagioclase	25	15		0.5x0.1	0.4x0.1	acicular
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
saponite	30					olivine
calcite						olivine
brown clays	15					plagioclase
calcite	10					glass
brown clays	90					glass
brown clays	30					pyroxene
brown clays						vesicle
calcite						vesicle
STRUCTURE	Massive structure					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of basalt flow; Vesicularity <1%; Crystallinity: 31%; Alteration Degree: 74%; Vein Filling: None: Vesicle Filling: Calcite and brown clays; Structure: Massive structure.					



THIN SECTION:	324-U1350A-19R-3-W 2_3-TS298		Piece No:		Unit:44	OBSERVER:THIN SECTION:TS298	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	interior of flow unit						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
plagioclase	0.1	30		0.6x0.5	0.6x0.5	tabular	
VESICLES	0.5			0.2	0.1	moderately spherical	
GROUNDMASS	100						
plagioclase	25	30		0.4x0.05	0.3x0.02	acicular	
opaque Minerals	1	30		0.1x0.1	0.05x0.05	subhedral	
glass	69	100					
pyroxene	5	30		0.2x0.2	0.1x0.1	subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
calcite	80					olivine	
brown clays	100					glass	
brown clays	30					plagioclase	
saponite	20					olivine	
brown clays	30					pyroxene	
brown clays	30					plagioclase	
STRUCTURE	Flow structure displayed by weakly-aligned plagioclases.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of basalt flow; Vesicularity <1%; Crystallinity: 31%; Alteration Degree: 78%; Vein Filling: None; Vesicle Filling: None; Structure: Flow structure displayed by weakly-aligned plagioclases.						



THIN SECTION:	324-U1350A-20R-1-W 38_39-TS299			Piece No:		Unit:46	OBSERVER:THIN SECTION:TS299
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	interior of flow unit						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
plagioclase	0.1	15		1.4x0.4	1.4x0.4	tabular	
MICROPHENOCRYST							
plagioclase	0.1	15		0.8x0.6	0.8x0.6	tabular	
VESICLES	1			0.7	0.4	highly spherical	
GROUNDMASS	100						
pyroxene	3	30		0.2x0.2	0.1x0.1	subhedral	
opaque Minerals	2	60		0.05x0.05	0.02x0.02	subhedral	
glass	75	100					
plagioclase	20	30		0.4x0.05	0.3x0.02	acicular	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	100					glass	
brown clays	30					plagioclase	
saponite	20					olivine	
brown clays	15					plagioclase	
calcite	80					olivine	
brown clays	30					pyroxene	
calcite							
brown clays						vesicle	around the vesicle of calcite
STRUCTURE	Massive structure and amygdaloidal structure.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of basalt flow; Vesicularity 1%; Crystallinity: 25%; Alteration Degree: 83%; Vein Filling: None; Vesicle Filling: Calcite and brown clays; Structure: Massive structure and amygdaloidal structure.						



THIN SECTION:	324-U1350A-20R-2-W 39_42-TS300		Piece No:		Unit:47	OBSERVER:THIN SECTION:TS300
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	glassy pillow rim					
GRAINSIZE:	very fine grained					
TEXTURE:	aphyric,hyalophytic					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					COMMENTS
plagioclase	0.1	2		1x0.3	1x0.3	tabular
MICROPHENOCRYST						
olivine	0.1	100		0.5x0.3	0.5x0.3	subhedral
plagioclase	0.1	2		0.5x0.2	0.4x0.3	tabular
VESICLES	3			2	1	low sphericity
GROUNDMASS						
pyroxene	1	50		0.2x0.2	0.1x0.1	subhedral
plagioclase	2	50		0.2x0.02	0.15x0.02	acicular
glass	97	100				
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	50					plagioclase
brown clays	2					plagioclase
brown clays	50					pyroxene
brown clays	100					glass
brown clays						vesicle
STRUCTURE						
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Hyalophytic Basalt; Very fine grained; Edge of Pillow Lava; Vesicularity 3%; Crystallinity: 3%; Alteration Degree: 98%; Vein Filling: None; Vesicle Filling: Brown clays; Structure: No structure.					



THIN SECTION:	324-U1350A-20R-3-W 8_11-TS302		Piece No:		Unit:50	OBSERVER:THIN SECTION:TS302	
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	flow interior						
GRAIN SIZE:	very fine grained						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
plagioclase	0.1	10		0.5x1	0.1x0.5	subhedral	
olivine	0.1	100		0.4		subhedral	
VESICLES	2			2	1	highly spherical	
GROUNDMASS	100						
pyroxene	5	45		0.3	0.1	subhedral	plagioclase intergrown
Opaque Minerals	3	30		0.1	0.03	skeletal	
plagioclase	32	15		0.05x0.5	0.02x0.3	acicular	
glass	60	100					
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	100					glass	
brown clays	15					plagioclase	
calcite	95					olivine	
saponite	5					olivine	
brown clays	45					pyroxene	
brown clays	10					plagioclase	
zeolite	2						
saponite	8					vesicle	
STRUCTURE	No structure.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of Pillow Lava; Vesicularity 2%; Crystallinity: 40%; Alteration Degree: 68%; Vein Filling: None; Vesicle Filling: Calcite, saponite and zeolite; Structure: No structure.						



THIN SECTION:	324-U1350A-21R-2-W 108_ 110-TS303		Piece No:		Unit:53	OBSERVER:THIN SECTION:TS303
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	flow interior					
GRAINSIZE:	microcrystalline [324]					
TEXTURE:	intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					
plagioclase	0.1	15		2x4	0.3x1	glomerocryst
MICROPHENOCRYST						
pyroxene	0.1	30		0.5	0.3	subhedral
plagioclase	0.1	15		0.5x0.5	0.3x0.8	subhedral
VESICLES	2			0.5	0.2	low sphericity
GROUNDMASS	100					
Opaque Minerals	2	40		0.03	0.01	skeletal
plagioclase	20	15		0.05x0.5	0.02x0.2	acicular
glass	70	100				
pyroxene	8	30		0.3	0.1	subhedral
						plagioclasee intergrown
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
calcite	95					olivine
saponite	5					olivine
brown clays	15					plagioclase
brown clays	100					glass
brown clays	30					pyroxene
STRUCTURE	No structure.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Very fine grained; Interior of Pillow Lava; Vesicularity 2%; Crystallinity: 30%; Alteration Degree: 76%; Vein Filling: None: Vesicle Filling: Calcite and dark brown clays; Structure: No structure.					



THIN SECTION:	324-U1350A-22R-1-W 41_42-TS304		Piece No:		Unit:56	OBSERVER:THIN SECTION:TS304
ROCK NAME:	sparsely plagioclase-phyric basalt					
WHERE SAMPLED:	flow interior					
GRAINSIZE:	microcrystalline [324]					
TEXTURE:	intersertal,sparsely phyric					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	1					COMMENTS
plagioclase	1	10		1.5x3	1x2	subhedral
MICROPHENOCRYST						
plagioclase	1	10		0.4x0.8	0.2x0.6	subhedral
VESICLES	1			4	0.5	moderately spherical
GROUNDMASS	98					
glass	80	100				
Opaque Minerals	0.1	80			0.01	skeletal
plagioclase	15	15		0.1x0.8	0.02x0.2	acicular
pyroxene	5	20		0.2	0.1	subhedral
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	20					pyroxene
brown clays	10					plagioclase
brown clays	100					glass
brown clays	15					plagioclase
saponite	10					Olivine
calcite	90					Olivine
saponite	30					
calcite	70					vesicle
STRUCTURE	Large vesicles surrounded by fine-grained groundmass.					
COMMENTS						
SUMMARY DESCRIPTION	Sparsely Plagioclase Phyric Intersertal Basalt; Very fine grained; Interior of Pillow Lava; Vesicularity 1%; Crystallinity: 22%; Alteration Degree: 82%; Vein Filling: None; Vesicle Filling: Calcite and saponite; Structure: Large vesicles surrounded by fine-grained groundmass.					



THIN SECTION:	324-U1350A-22R-2-W 62_66-TS305		Piece No:		Unit:59	OBSERVER:THIN SECTION:TS305
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	flow interior					
GRAINSIZE:	microcrystalline [324]					
TEXTURE:	aphyric, intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					
plagioclase	0.1	15		1x2.5	0.6x2	tabular
MICROPHENOCRYST						
plagioclase	1	15		0.6x1	0.3x1	tabular
VESICLES	3			2	0.5	highly spherical
GROUNDMASS	99					
glass	75	100				
pyroxene	5	100		0.2	0.1	subhedral
Opaque Minerals	0.1	0			0.01	skeletal
plagioclase	20	20		0.02x0.5	0.01x0.3	acicular
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	100					pyroxene
brown clays	100					glass
brown clays	15					plagioclase
brown clays	20					plagioclase
calcite	10					vesicle
saponite	90					vesicle
STRUCTURE	Plagioclase laths make flow structure and surround amygdules.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Microcrystalline; Interior of Pillow Lava; Vesicularity 3%; Crystallinity: 26%; Alteration Degree: 83%; Vein Filling: Calcite and Pyrite; Vesicle Filling: Calcite and saponite; Structure: Plagioclase laths make flow structure and surround amygdules.					



THIN SECTION:	324-U1350A-22R-3-W 117_119-TS306			Piece No:		Unit:62	OBSERVER:THIN SECTION:TS306
ROCK NAME:	sparsely plagioclase phyric basalt						
WHERE SAMPLED:	flow interior						
GRAINSIZE:	microcrystalline [324]						
TEXTURE:	sparsely phyric,intergranular						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	1						
plagioclase	1	40		2x4	1x2	glomerocryst	
MICROPHENOCRYST							
plagioclase	1	40		0.6x1.2	0.5x1	subhedral	
GROUNDMASS	98						
plagioclase	40	10		0.05x0.5	0.02x0.2	acicular	
glass	40	100					
pyroxene	20	40		0.2	0.1	subhedral	
Opaque Minerals	0.1	0			0.01	subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	100					glass	
brown clays	40					pyroxene	
brown clays	40					plagioclase	
saponite	100					olivine	
brown clays	10					plagioclase	
dark brown clays						vesicle	associated with Fe-oxides
STRUCTURE	No structure.						
COMMENTS							
SUMMARY DESCRIPTION	Sparsely Plagioclase Phyric Intersertal Basalt; Microcrystalline; Interior of Pillow Lava; Vesicularity 0%; Crystallinity: 61%; Alteration Degree: 52%; Vein Filling: None; Vesicle Filling: Dark brown clays; Structure: No structure.						



THIN SECTION:	324-U1350A-22R-5-W 81_87-TS307		Piece No:		Unit:69	OBSERVER:THIN SECTION:TS307
ROCK NAME:	sparsely plagioclase phyric basalt					
WHERE SAMPLED:	flow interior					
GRAINSIZE:	microcrystalline [324]					
TEXTURE:	intersertal,sparsely phyric					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	1					
plagioclase	1	10		2x3	1x1.5	glomerocryst
MICROPHENOCRYST						
plagioclase	1	10		0.5x1	0.3x1	subhedral
VESICLES	1			1	0.5	highly spherical
GROUNDMASS	98					
plagioclase	50	10		0.1x0.8	0.05x0.2	acicular
Opaque Minerals	1	0		0.03	0.02	skeletal
glass	25	100				
pyroxene	24	40		0.3	0.1	subhedral
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	10					plagioclase
brown clays	10					plagioclase
brown clays	100					glass
brown clays	40					pyroxene
saponite	100					olivine
brown clays						vesicle
calcite						
STRUCTURE	Massive structure with syntaxial growth of calcite veins and composite veins, yellow clay veins.					
COMMENTS						
SUMMARY DESCRIPTION	Sparsely Plagioclase Phyric Intersertal Basalt; Microcrystalline; Interior of Pillow Lava; Vesicularity 1%; Crystallinity: 76%; Alteration Degree: 39%; Vein Filling: Four generations with brown clays (A) and calcite (B-C-D); Vesicle Filling: Calcite and brown clays; Structure: Massive structure with syntaxial growth of calcite veins and composite veins, yellow clay veins.					



THIN SECTION:	324-U1350A-23R-1-W 46_50-TS308		Piece No:		Unit:71	OBSERVER:THIN SECTION:TS308
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	Flow interior					
GRAINSIZE:	microcrystalline [324]					
TEXTURE:	intersertal,aphyric					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					
plagioclase	0.1	15		1x2	1x1.5	subhedral
MICROPHENOCRYST						
plagioclase	1	15		0.4x0.8	0.2x0.5	euohedral
VESICLES	2					high
	2			0.5	0.3	highly spherical
GROUNDMASS	99					
pyroxene	20	100		0.2	0.8	subhedral
pyroxene	20	100		0.2	0.08	subhedral
plagioclase	28	10		0.05x0.4	0.02x0.2	acicular
Opaque Minerals	2	10		0.02	0.01	skeletal
glass	50	100				
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	100					pyroxene
brown clays	15					plagioclase
brown clays	100					glass
brown clays	10					plagioclase
saponite	100					
calcite	10					vesicle
brown clays	90					vesicle
STRUCTURE	Massive structure and amygdaloidal structure with displacement-controlled, syntaxial calcite veins.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Microcrystalline; Interior of Pillow Lava; Vesicularity 2%; Crystallinity: 51%; Alteration Degree: 72%; Vein Filling: Calcite and pyrite or only pyrite; Vesicle Filling: Brown clays and calcite; Structure: Massive structure and amygdaloidal structure with displacement-controlled, syntaxial calcite veins.					



THIN SECTION:	324-U1350A-23R-4-W 95_98-TS310		Piece No:		Unit:81	OBSERVER:THIN SECTION:TS310	
ROCK NAME:	sparsely plagioclase phyric basalt						
WHERE SAMPLED:	flow interior						
GRAINSIZE:	microcrystalline [324]						
TEXTURE:	intersertal,sparsely phyric						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	1						
plagioclase	1	10		0.6x1.8	0.6x1	subhedral	
MICROPHENOCRYST							
plagioclase	1	10			0.3x0.5	euhedral	
VESICLES	2			1	0.5	highly spherical	
GROUNDMASS	98						
glass	40	100					
plagioclase	40	15		0.05x0.4	0.02x0.2		
Opaque Minerals	0.1	10		0.02	0.1		
pyroxene	20	80		0.3	0.1		
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	80					pyroxene	
brown clays	10					plagioclase	
brown clays	15					plagioclase	
brown clays	100					glass	
saponite						vesicle	
calcite						vesicle	
STRUCTURE	No structure.						
COMMENTS							
SUMMARY DESCRIPTION	Sparsely Plagioclase Phyric Intersertal Basalt; Microcrystalline; Interior of Pillow Lava; Vesicularity 2%; Crystallinity: 61%; Alteration Degree: 61%; Vein Filling: Saponite; Vesicle Filling: Calcite; Structure: No structure.						



THIN SECTION:	324-U1350A-24R-1-W 128_131-TS312			Piece No:		Unit:85	OBSERVER:THIN SECTION:TS312
ROCK NAME:	sparsely plagioclase phyric basalt						
WHERE SAMPLED:	lower chilled zone of flow						
GRAINSIZE:	glassy [324]						
TEXTURE:	spherulitic,sparsely phyric						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	1						
plagioclase	1	10		1.2x2	0.6x1.2	subhedral	melt inclusions (devitrified glass)
MICROPHENOCRYST							
plagioclase	1	10		0.3x1	0.2x0.6	subhedral	
VESICLES	2			1.5	0.8	highly spherical	
GROUNDMASS	98						
plagioclase	5	10		0.02x0.05	0.01x0.02	acicular	
pyroxene	1	100		0.05	0.03	dendritic	
glass	94	100					
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clays	100					glass	
brown clays	10					plagioclase	
calcite	95					olivine	
brown clays	10					plagioclase	
brown clays	5					olivine	
calcite						vesicle	
pyrite						vesicle	
brown clays							
STRUCTURE	Flow structure along the quenched rind and also surrounding glomeroporphyritic phenocrysts.						
COMMENTS							
SUMMARY DESCRIPTION	Sparsely Plagioclase Phyric Spherulitic Basalt; Glassy; Chilled Lower Margin of Pillow Lava; Vesicularity 2%; Crystallinity: 8%; Alteration Degree: 94%; Vein Filling: None; Vesicle Filling: Calcite, pyrite and brown clays; Structure: Flow structure along the quenched rind and also surrounding glomeroporphyritic phenocrysts.						



THIN SECTION:	324-U1350A-24R-3-W 35_38-TS311		Piece No:		Unit:91	OBSERVER:THIN SECTION:TS311
ROCK NAME:	aphyric basalt					
WHERE SAMPLED:	interior of pillow					
GRAINSIZE:	cryptocrystalline					
TEXTURE:	aphyric					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	0					
MICROPHENOCRYST						
plagioclase	0.1	20		0.2x0.4	0.05x0.4	subhedral
GROUNDMASS	100					
glass	50	100				
pyroxene	20	100		0.2	0.1	subhedral
plagioclase	30	20		0.03x0.3	0.01x0.1	acicular
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clays	100					pyroxene
saponite	100					olivine
brown clays	20					plagioclase
brown clays	20					plagioclase
brown clays	100					glass
calcite						vesicle
brown clays						vesicle
pyrite						vesicle
STRUCTURE	Two thin veins. No structure in groundmass.					
COMMENTS						
SUMMARY DESCRIPTION	Aphyric Spherulitic Basalt; Cryptocrystalline; Interior of Pillow Lava; Vesicularity <1%; Crystallinity: 50%; Alteration Degree: 76%; Vein Filling: Calcite; Vesicle Filling: Calcite and brown clays or pyrite; Structure: Two thin veins. No structure in groundmass.					



THIN SECTION:	324-U1350A-25R-1-W 26_29-TS313		Piece No:		Unit:92	OBSERVER:THIN SECTION:TS313
ROCK NAME:	sparsely plagioclase phyric basalt					
WHERE SAMPLED:	flow interior					
GRAINSIZE:	cryptocrystalline [324]					
TEXTURE:	sparsely phyric, intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	4					
plagioclase	3	5		2x4	0.6x1.5	glomerocryst
MICROPHENOCRYST						
pyroxene	0.1	80		1	0.5	subhedral
plagioclase	1	5		0.4x0.8	0.2x0.6	subhedral
VESICLES	5			1	0.4	highly spherical
GROUNDMASS	96					
pyroxene	10	80		0.3	0.15	subhedral
glass	70	100				plagioclase intergrown
plagioclase	20	10		0.05x0.3	0.02x0.1	acicular
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clay	5					plagioclase
brown clay	80					pyroxene
brown clay	25					spherulites
brown clay	10					plagioclase
Fe oxyhydroxide	50					magnetite
brown clay	100					mesostasis
saponite	80					
STRUCTURE	No structure.					
COMMENTS						
SUMMARY DESCRIPTION	Sparsely Plagioclase Phyric Intersertal Basalt; Cryptocrystalline; Interior of Pillow Lava; Vesicularity 5%; Crystallinity: 33%; Alteration Degree: 77%; Vein Filling: None; Vesicle Filling: Saponite; Structure: No structure.					



THIN SECTION:	324-U1350A-25R-2-W 113_116-TS315		Piece No:		Unit:101	OBSERVER:THIN SECTION:TS315	
ROCK NAME:	sparsely phyric basalt						
WHERE SAMPLED:	Middle part of flow tih cavities filled with clay						
GRAINSIZE:	cryptocrystalline						
TEXTURE:	sparsely phyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	3						
plagioclase	3			3x5	1x2	glomerocrst	
MICROPHENOCRYST							
plagioclase	1				0.5x1	subhedral	
VESICLES	5			4	2	low sphericity	
GROUNDMASS	96						
pyroxene	5			0.3	0.1	subophitic	
plagioclase	15			0.04x0.2	0.02x0.1	acicular	
glass	80						
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clay	45					pyroxene	
nontronite	5						nontronite is found between spherulites on the upper left of the slide and likely represent alteration of glass
brown clay	40					spherulites	
brown clay	95					glass	
brown clay	10					plagioclase	groundmass
brown clay	10					plagioclase	phenocryst
calcite	100					vesicle	
saponite	100						
STRUCTURE	Some irregular and curved veins. No structure in groundmass.						
COMMENTS							
SUMMARY DESCRIPTION	Aphyric Intersertal Basalt; Cryptocrystalline; Middle part of flow tih cavities filled with clay; Vesicularity 5%; Crystallinity: 23%; Alteration Degree: 81%; Vein Filling: no vein; Vesicle Filling: Calcite and saponite; Structure: Some irregular and curved veins. No structure in groundmass.						



THIN SECTION:	324-U1350A-25R-4-W 75_78-TS316		Piece No:		Unit:114	OBSERVER:THIN SECTION:TS316	
ROCK NAME:	sparsely phyric basalt						
WHERE SAMPLED:	middle part of pillow						
GRAINSIZE:	microcrystalline [324]						
TEXTURE:	sparsely phyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	4						
plagioclase	4	15		4x7	1x2	glomerocrysts	
MICROPHENOCRYST							
plagioclase	1	15			0.5x1	subhedral	
VESICLES	10				15	elongate	pipe vesicle
GROUNDMASS	95						
plagioclase	15	20		0.05x0.2	0.02x0.2	acicular	
pyroxene	15	50		0.2	0.1	subhedral	
glass	70						
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
calcite	100					olivine	
brown clay	15					plagioclase	
brown clay	20					plagioclase	
brown clay	50					pyroxene	
Fe oxyhydroxide	60					magnetite	
brown clay	100					mesostasis	
saponite	100					vesicle	
calcite	95						
STRUCTURE	Large amygdules filled with calcite are connected. No structure in groundmass.						
COMMENTS							
SUMMARY DESCRIPTION	Sparsely phyric Intersertal Basalt; Microcrystalline; Middle part of flow; Vesicularity 10%; Crystallinity: 34%; Alteration Degree: 77%; Vein Filling: no vein; Vesicle Filling: Calcite, pyrite and saponite (pipe vesicle); Structure: Large amygdules filled with calcite are connected. No structure in groundmass.						



THIN SECTION:	324-U1350A-25R-6-W 86_89-TS318		Piece No:		Unit:127	OBSERVER:THIN SECTION:TS318	
ROCK NAME:	sparsely phyric basalt						
WHERE SAMPLED:	side margin of pillow						
GRAINSIZE:	microcrystalline [324]						
TEXTURE:	sparsely phyric,hyalophytic						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS							
plagioclase	3	40		2.8x1.4	1.2x0.8	tabular	
MICROPHENOCRYST							
plagioclase	1	40		0.9x0.4	0.7x0.5	tabular	
VESICLES	15			5	0.4	elongate	
GROUNDMASS	96						
pyroxene	2	70		0.1x0.1	0.05x0.05	subhedral	
plagioclase	5	10		0.3x0.02	0.1x0.02	acicular	
glass	93	100					
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clay	100					mesostasis	
brown clay	40					plagioclase	
brown clay	50					spherulites	
brown clay	70					pyroxene	
brown clay	10					plagioclase	
saponite	100					vesicle	
STRUCTURE	Veins cut the phenocrysts, groundmass and amygdules.						
COMMENTS							
SUMMARY DESCRIPTION	Sparsely phyric hyalophytic Basalt; Microcrystalline; Side margin of pillow; Vesicularity 15%; Crystallinity: 11%; Alteration Degree: 92%; Vein Filling: Calcite and blue mineral; Vesicle Filling: Saponite; Structure: Veins cut the phenocrysts, groundmass and amygdules.						



THIN SECTION:	324-U1350A-25R-8-W 26_29-TS320		Piece No:		Unit: 138	OBSERVER: THIN SECTION: TS320
ROCK NAME:	sparsely phyric basalt					
WHERE SAMPLED:	pillow interior					
GRAIN SIZE:	microcrystalline [324]					
TEXTURE:	hyalophytic, sparsely phyric					
PRIMARY	PERCENT	REL. VOL.	SIZE (mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	2					
plagioclase	2	80		2.6x1.4	2x1.8	tabular
MICROPHENOCRYST						
plagioclase	1	80		0.8x0.3	0.6x0.3	tabular
VESICLES	5			4	0.4	elongate
GROUNDMASS	97					
glass	92	100				
pyroxene	3	99		0.05x0.05	0.02x0.02	subhedral
plagioclase	5	40		0.15x0.02	0.1x0.02	acicular
SECONDARY			SIZE (mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clay	100					spherulites
zeolite	80					plagioclase
brown clay	99					pyroxene
brown clay	40					plagioclase
green clay	20					
saponite	100					vesicle
STRUCTURE	Alteration halo. No structure in groundmass.					
COMMENTS						
SUMMARY DESCRIPTION	Sparsely phyric hyalophytic Basalt; Microcrystalline; interior of pillow; Vesicularity 5%; Crystallinity: 11%; Alteration Degree: 96%; Vein Filling: Saponite; Vesicle Filling: Saponite; Structure: Alteration halo. No structure in groundmass.					



THIN SECTION:	324-U1350A-26R-1-W 42_48-TS321		Piece No:		Unit:141	OBSERVER:THIN SECTION:TS321
ROCK NAME:	sparsely phyric basalt					
WHERE SAMPLED:	pillow margin					
GRAINSIZE:	microcrystalline [324]					
TEXTURE:	sparsely phyric,hyalophytic					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	4					
plagioclase	4	40		2.6x1.6	1.6x0.6	tabular
MICROPHENOCRYST						
plagioclase	1	40		0.8x0.5	0.7x0.5	tabular
VESICLES	20			5	1	low sphericity
GROUNDMASS	95					
plagioclase	2	30		0.15x0.02	0.1x0.02	acicular
glass	98					
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
zeolite	30					plagioclase
brown clay	100					glass
green clay	10					
brown clay	30					plagioclase
brown clay	100					spherulite
STRUCTURE	Breccias between quenched margin and limestone.					
COMMENTS						
SUMMARY DESCRIPTION	Sparsely phyric hyalophytic basalt; Microcrystalline;pillow margin; Vesicularity 5%; Crystallinity: 7%; Alteration Degree: 96%; Vein Filling: zeolite and saponite (joint); Vesicle Filling: Saponite; Structure: breccias between quenched margin and limestone.					



THIN SECTION:	324-U1350A-26R-1-W 75_78-TS322		Piece No:		Unit: 142	OBSERVER: THIN SECTION: TS322	
ROCK NAME:	sparsely phyric basalt						
WHERE SAMPLED:	lower part of pillow						
GRAIN SIZE:	microcrystalline [324]						
TEXTURE:	hyalophytic, sparsely phyric						
PRIMARY	PERCENT	REL. VOL.	SIZE (mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	3						
plagioclase	3	100		2.8x1.8	1.2x1	tabular	
MICROPHENOCRYST							
plagioclase	1	100		0.8x0.4	0.6x0.4	tabular	
VESICLES	5			2.2	0.4	moderately spherical	
GROUNDMASS	96						
glass	93						
pyroxene	3	0		0.1x0.1	0.05x0.05	subhedral	
plagioclase	3	40		0.2x0.02	0.1x0.02	acicular	
opaque Minerals	1	0		0.02x0.02	0.02x0.02	subhedral	
SECONDARY			SIZE (mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clay	100					spherulites	
brown clay	100					mesostasis	
brown clay	40					plagioclase	
zeolite	70					plagioclase	
brown clay	30						
saponite	100					vesicle	
STRUCTURE	Curved and network veins with thick alteration halo.						
COMMENTS							
SUMMARY DESCRIPTION	Sparsely phyric hyalophytic basalt; Microcrystalline; lower part of pillow; Vesicularity 5%; Crystallinity: 12%; Alteration Degree: 91%; Vein Filling: zeolite and saponite; Vesicle Filling: Saponite; Structure: Curved and network veins with thick alteration halo.						



THIN SECTION:	324-U1350A-26R-3-W 100 105-TS325			Piece No:		Unit:154	OBSERVER:THIN SECTION:TS325
ROCK NAME:	sparsely phyric basalt						
WHERE SAMPLED:	side margin of pillow						
GRAINSIZE:	microcrystalline [324]						
TEXTURE:	sparsely phyric,hyalophytic						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	4						
plagioclase	4	95		4x2	1.2x0.7	tabular	
MICROPHENOCRYST							
plagioclase	1	95		0.8x0.5	0.7x0.4	tabular	
VESSICLES	15			3	2	low sphericity	
GROUNDMASS	95						
glass	98.9						
pyroxene	0.1			0.1x0.06	0.02x0.02	subhedral	
plagioclase	1	40		0.2x0.02	0.1x0.02	acicular	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
brown clay	40					plagioclase	
zeolite	60					plagioclase	
brown clay	100					spherulites	
brown clay	98					glass	
nontronite	2						
green clay	35						
saponite	100					vesicle	
STRUCTURE	Chilled margin with several parallel joints.						
COMMENTS							
SUMMARY DESCRIPTION	Sparsely phyric hyalophytic basalt; Microcrystalline; Side margin of pillow; Vesicularity 15%; Crystallinity: 6%; Alteration Degree: 99%; Vein Filling:saponite; Vesicle Filling: Saponite; Structure: Chilled margin with several parallel joints.						



THIN SECTION:	324-U1350A-26R-3-W 125_129-TS326		Piece No:		Unit:154	OBSERVER:THIN SECTION:TS326	
ROCK NAME:	sparsely phyric basalt						
WHERE SAMPLED:	middle part of flow unit with vein filled with clay						
GRAINSIZE:	microcrystalline [324]						
TEXTURE:	sparsely phyric,hyalophytic						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	3						
plagioclase	3	50		2x0.8	1.4x1	tabular	
MICROPHENOCRYST							
plagioclase	1	50		0.8x0.3	0.8x0.2	tabular	
olivine	0.1	100			0.3	subhedral	
VESICLES	5			2.2	1.4	low sphericity	
GROUNDMASS	96						
plagioclase	1			0.15x0.02	0.1x0.02	acicular	
pyroxene	0.1			0.1x0.1	0.1x0.05	subhedral	
opaque Minerals	0.1			0.1x0.1	0.1x0.05	subhedral	
glass	98.8						
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
zeolite	20					plagioclase	
brown clay	95					glass	
brown clay	100					spherulites	
nontronite	5						
brown clay	40					plagioclase	
green clay							
brown clay	10						
saponite	100					olivine	
saponite	100					vesicle	
STRUCTURE	Thin veins are heterogeneously distributed.						
COMMENTS							
SUMMARY DESCRIPTION	Sparsely phyric hyalophytic basalt; Microcrystalline; Middle part of flow unit with vein filled with clay; Vesicularity 5%; Crystallinity: 5%; Alteration Degree: 97%; Vein Filling:zeolite, brown clay; Vesicle Filling: Saponite; Thin veins are heterogeneously distributed.						



THIN SECTION:	324-U1350A-26R-4-W 30_33-TS328		Piece No:		Unit: 156	OBSERVER: THIN SECTION: TS328
ROCK NAME:	sparsely phyric basalt					
WHERE SAMPLED:	pillow interior					
GRAINSIZE:	microcrystalline [324]					
TEXTURE:	sparsely phyric, intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE (mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	4					
plagioclase	4	40		2.4x1.8	1.8x1	tabular
MICROPHENOCRYST						
plagioclase	1	40		0.8x0.3	0.6x0.3	tabular
VESICLES	5			0.8	0.3	moderately spherical
GROUNDMASS	95					
plagioclase	20	20		0.2x0.02	0.1x0.02	acicular
glass	69	100				
pyroxene	10	70		0.1x0.1	0.02x0.02	subhedral
opaque Minerals	1	60		0.05x0.05	0.02x0.02	subhedral
SECONDARY			SIZE (mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clay	20					plagioclase
brown clay	20					plagioclase
brown clay	70					pyroxene
zeolite						
Fe oxyhydroxide	60					magnetite
brown clay	100					mesostasis
saponite	95					
STRUCTURE	Irregular vein cut phenocrysts, groundmass and amygdules.					
COMMENTS						
SUMMARY DESCRIPTION	Sparsely phyric intersertal basalt; Microcrystalline; Middle part of pillow; Vesicularity 5%; Crystallinity: 34%; Alteration Degree: 79%; Vein Filling: N/A; Vesicle Filling: Saponite and pyrite; Structure: Irregular vein cut phenocrysts, groundmass and amygdules.					



THIN SECTION:	324-U1350A-26R-5-W 35_40-TS329		Piece No:		Unit:161	OBSERVER:THIN SECTION:TS329
ROCK NAME:	sparsely phyric basalt					
WHERE SAMPLED:	side margin of pillow					
GRAINSIZE:	microcrystalline [324]					
TEXTURE:	sparsely phyric,hyalophytic					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	3					
plagioclase	3	70		3.6x2.8	1.8x0.8	tabular
MICROPHENOCRYST						
plagioclase	2	70		0.9x0.7	0.6x0.4	tabular
VESICLES	10			3.2	0.8	moderately spherical
GROUNDMASS	95					
pyroxene	0.1	100		0.1x0.1	0.1x0.05	subhedral
glass	98.9					
plagioclase	1	40		0.2x0.05	0.1x0.02	acicular
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clay	100					mesostasis
brown clay	40					plagioclase
zeolite	70					plagioclase
brown clay	20					
brown clay	100					glass
brown clay	60					spherulites
saponite	100					vesicle
STRUCTURE	Chilled margin contact with radiolaria limestone.					
COMMENTS						
SUMMARY DESCRIPTION	Sparsely phyric hyalophytic basalt; Microcrystalline; side margin of pillow; Vesicularity 10%; Crystallinity: 6%; Alteration Degree: 98%; Vein Filling:calcite, Fe oxyhydroxide, zeolite; Vesicle Filling: Saponite; Structure: Chilled margin contact with radiolaria limestone.					



THIN SECTION:	324-U1350A-26R-5-W 84_88-TS331		Piece No:		Unit:166	OBSERVER:THIN SECTION:TS331
ROCK NAME:	sparsely phyric basalt					
WHERE SAMPLED:	chilled margin of pillow					
GRAINSIZE:	microcrystalline [324]					
TEXTURE:	sparsely phyric,hyalophytic					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	3					
plagioclase	3	90		2.8x1.6	1.4x0.8	tabular
MICROPHENOCRYST						
plagioclase	1	90		0.8x0.6	0.6x0.5	tabular
VESICLES	1			1	0.3	moderately spherical
GROUNDMASS	96					
plagioclase	1	60		0.2x0.1	0.1x0.02	acicular
glass	98.9					
pyroxene	0.1			0.2x0.1	0.1x0.05	subhedral
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clay	100					mesostasis
brown clay	100					spherulites
green clay	30					
brown clay	100					glass
zeolite	60					plagioclase
STRUCTURE	Chilled margin cut by some veins filled with nontrolite, Fe-Oxide and Zeolite.					
COMMENTS						
SUMMARY DESCRIPTION	Sparsely phyric hyalophytic basalt; Microcrystalline; chilled margin of pillow; Vesicularity 1%; Crystallinity: 5%; Alteration Degree: 99%; Vein Filling:calcite, Fe oxyhydroxide, zeolite; Vesicle Filling: Saponite; Structure: Chilled margin cut by some veins filled with nontrolite, Fe-Oxide and Zeolite.					



THIN SECTION:	324-U1350A-26R-6-W 68_71-TS332		Piece No:		Unit: 173	OBSERVER: THIN SECTION: TS332
ROCK NAME:	sparsely phyric basalt					
WHERE SAMPLED:	pillow interior					
GRAIN SIZE:	microcrystalline [324]					
TEXTURE:	sparsely phyric, intersertal					
PRIMARY	PERCENT	REL. VOL.	SIZE (mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	4					
plagioclase	4	60		2.2x1.2	1.2x1	tabular
MICROPHENOCRYST						
plagioclase	1	60		0.8x0.3	0.6x0.4	tabular
VESICLES	3			3.8	0.4	low sphericity
GROUNDMASS	95					
plagioclase	40	40		0.2x0.02	0.1x0.02	acicular
pyroxene	20	60		0.1x0.1	0.1x0.05	subhedral
glass	39					
opaque Minerals	1	80		0.05x0.05	0.02x0.02	subhedral
SECONDARY			SIZE (mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clay	40					plagioclase
brown clay	100					glass
zeolite	40					plagioclase
brown clay	20					
brown clay	60					pyroxene
Fe oxyhydroxide	80					ilmenite
saponite	100					
STRUCTURE	Flow structure observed around phenocrysts.					
COMMENTS						
SUMMARY DESCRIPTION	Sparsely phyric intersertal basalt; Microcrystalline; interior of pillow; Vesicularity 3%; Crystallinity: 63%; Alteration Degree: 67%; Vein Filling: saponite; Vesicle Filling: Saponite; Structure: Flow structure observed around phenocrysts.					



THIN SECTION:	324-U1350A-26R-7-W 52_56-TS333		Piece No:		Unit:177	OBSERVER:THIN SECTION:TS333
ROCK NAME:	sparsely phyric basalt					
WHERE SAMPLED:	side margin of pillow					
GRAINSIZE:	microcrystalline [324]					
TEXTURE:	sparsely phyric,hyalophytic					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	3					
plagioclase	3	80		4x1.2	1.4x0.8	tabular
MICROPHENOCRYST						
plagioclase	2	80		0.7x0.4	0.6x0.3	tabular
VESICLES	5			6	0.8	moderately spherical
GROUNDMASS	95					
glass	98.9					
pyroxene	0.1	100		0.2x0.1	0.1x0.05	subhedral
plagioclase	1	80		0.1x0.02	0.1x0.01	acicular
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clay	100					pyroxene
brown clay	80					plagioclase
brown clay	100					mesostasis
zeolite	60					
brown clay	20					plagioclase
brown clay	100					glass
saponite	99					vesicle
STRUCTURE	Chilled margin contact with radiolaria limestone.					
COMMENTS						
SUMMARY DESCRIPTION	Sparsely phyric hyalophytic basalt; Microcrystalline; side margin of pillow; Vesicularity 5%; Crystallinity: 6%; Alteration Degree: 99%; Vein Filling:zeolite; Vesicle Filling: Saponite, pyrite; Structure: Chilled margin contact with radiolaria limestone.					



THIN SECTION:	324-U1350A-26R-8-W 4_7-TS334		Piece No:		Unit: 181	OBSERVER: THIN SECTION: TS334
ROCK NAME:	moderately phyric basalt					
WHERE SAMPLED:	pillow interior					
GRAIN SIZE:	microcrystalline [324]					
TEXTURE:	intersertal, moderately phyric					
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)			
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY
PHENOCRYSTS	5					
plagioclase	5	80		1.8x1.2	1.4x0.8	tabular
MICROPHENOCRYST						
plagioclase	1	80		0.7x0.3	0.6x0.5	tabular
VESICLES	5			3	0.4	low sphericity
GROUNDMASS	94					
pyroxene	15	80		0.05x0.05	0.02x0.02	subhedral
plagioclase	30	20		0.15x0.02	0.1x0.02	acicular
opaque Minerals	5	60		0.05x0.05	0.02x0.02	subhedral
glass	50					
SECONDARY			SIZE(mm)			
MINERALOGY			min.	max.	mode.	REPLACING/FILLING
brown clay	100					glass
zeolite						
brown clay	20					plagioclase
brown clay	40					plagioclase
brown clay	80					pyroxene
Fe oxyhydroxide	60					magnetite
saponite	90					
STRUCTURE	Massive structure in groundmass, amygdaloidal structure, but plagioclase phenocrysts are cracked by conjugate jointing.					
COMMENTS						
SUMMARY DESCRIPTION	Moderately phyric intersertal basalt; Microcrystalline; pillow interior; Vesicularity 5%; Crystallinity: 53%; Alteration Degree: 72%; Vein Filling: N/A; Vesicle Filling: Saponite, (+calcite, pyrite in pipe vesicle); Structure: Massive structure in groundmass, amygdaloidal structure, but plagioclase phenocrysts are cracked by conjugate jointing.					