



THIN SECTION:	324-1213B-28R-1-_4-W-TS28			Piece No:		Unit:2	OBSERVER:THIN SECTION:TS28
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	30 cm beneath the unit top.						
GRAINSIZE:	0.4x0.1						
TEXTURE:	aphyric, intersertal						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
VESICLES	0						
GROUNDMASS	100						
Opaque Minerals	5	0	0.01x0.01	0.05x0.05	0.03x0.03	subhedral	
clinopyroxene	10	8	0.02x0.02	0.8x0.4	0.2x0.1	subhedral	
glass	55	100					
plagioclase	30	6	0.01x0.01	0.5x0.2	0.2x0.1	euohedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
STRUCTURE	seriate texture, massive structure with some irregular veins filled by polycrystalline texture.						
COMMENTS							
SUMMARY DESCRIPTION	Intersertal aphyric basalt; Crystallinity: 45%; Alteration Degree: 70%; Structure: Seriate, Massive basalt, Irregular Veining						



THIN SECTION:	324-1213B-28R-3- 3-W-TS29			Piece No:		Unit:2	OBSERVER:THIN SECTION:TS29
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	425 cm below the top of the volcanic unit. Distance to bottom unknown.						
GRAINSIZE:	fine grained [324]						
TEXTURE:	Intersertal, intergranular						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
GROUNDMASS	100						
magnetite	10	0	0.01	0.15	0.1	euohedral, skeletal	
pyroxene							
magnetite	10	10	0.01	0.15	0.1	euohedral, skeletal	
plagioclase	30	5	0.02	0.3	0.1	acicular, sub-ophitic	pyroxene - plag glomerocrsts
pyroxene	30	10	0.1	0.5	0.2	subhedral	Larger crystals display sector zoning and associated inclusions
plagioclase							
glass	30	100	0.1	1.0	0.3	patchy	intersertal patches
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
STRUCTURE	subophitic						
COMMENTS							
SUMMARY DESCRIPTION	Intersertal to Intergranular Subophitic Aphyric basalt; Crystallinity: 70%; Alteration Degree: 35%; Structure: No Veining						



THIN SECTION:	324-1213B-30R-2-_ 1-W-TS31			Piece No:		Unit:6	OBSERVER:THIN SECTION:TS31
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	Near the middle of massive basaltic unit						
GRAINSIZE:	very fine grained						
TEXTURE:	aphyric,Intersertal, intergranular						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
GROUNDMASS	100						
magnetite	5	20	0.02	0.1	0.08	interstitial, skeletal	
pyroxene	35	5	0.04	0.6	0.3	euohedral, subohedral	common glomerocrysts
glass	25	100	0.04	0.7	0.3	patchy	
plagioclase	35	10	0.01	0.3	0.1	acicular, sub-ophitic	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
STRUCTURE	Two joints. Subophitic texture.						
COMMENTS							
SUMMARY DESCRIPTION	Intersertal Intergranular Subophitic aphyric basalt; Crystallinity: 75%; Alteration Degree: 31%; Veins: Irregular, Anastomosing; Structure: Two Joints						



THIN SECTION:	324-1213B-30R-4- 3-W-TS32			Piece No:		Unit:6	OBSERVER:THIN SECTION:TS32
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	Fine grained part of cooling unit at the bottom of massive basaltic unit.						
GRAINSIZE:	cryptocrystalline						
TEXTURE:	aphyric, intersertal, intergranular						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
VESICLES	0						
GROUNDMASS	100						
plagioclase	25	22	0.02	0.24	0.04	euohedral	
pyroxene	20	10	0.04	0.5	0.2	subhedral	
glass	50	100	0.06	0.4	0.2		
magnetite	5	0	0.01	0.06	0.04	subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
STRUCTURE	massive structure						
COMMENTS							
SUMMARY DESCRIPTION	Intersertal Intergranular Aphyric basalt; Crystallinity: 50%; Alteration Degree: 58%; Veins: None; Structure: Massive						



THIN SECTION:	324-1213B-31R-1-_2-W-TS36			Piece No:		Unit:7	OBSERVER:THIN SECTION:TS36
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	7-10cm beneath top of the massive basaltic unit, just beneath quenched glassy margin.						
GRAINSIZE:	cryptocrystalline						
TEXTURE:	hyaloophitic,aphyric						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
GROUNDMASS	100						
pyroxene	2	20	0.02x0.02	0.3x0.6	0.1x0.3	subhedral	
plagioclase	7	30	0.02x0.02	0.2x1	0.05x0.15	euhedral	
Opaque Minerals	1	0	0.02x0.02	0.1x0.4	0.2x0.1	subhedral	
glass	90	100					
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
STRUCTURE	seriate texture, massive structure						
COMMENTS							
SUMMARY DESCRIPTION	Hyalophitic Cryptocrystalline Aphyric Basalt; Crystallinity: 10%; Alteration Degree: 93%; Veins: None; Structure: Massive						



THIN SECTION:	324-1213B-31R-3- 1-W-TS43		Piece No:			Unit:7	OBSERVER:THIN SECTION:TS43
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	350 cm beneath the unit top. Glomerocrysts of plagioclase and pyroxene are commonly observed.						
GRAINSIZE:	fine grained						
TEXTURE:	aphyric, intersertal, subophytic						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
VESICLES	0						
GROUNDMASS	100						
plagioclase	30	14	0.02x0.02	1.4x1.0	0.6x0.2	euedral	
clinopyroxene	20	7	0.02x0.01	1.0x0.6	0.8x0.4	subhedral	
opaque Minerals	7	0	0.02x0.02	0.2x0.1	0.1x0.1	subhedral	
glass	43	100					
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
STRUCTURE	porphyritic texture, massive structure, calcite veins with cross-fiber texture and halo						
COMMENTS							
SUMMARY DESCRIPTION	Intersertal Subophitic Aphyric Basalt; Crystallinity: 57%; Alteration Degree: 49%; Veins: Calcite-Zeolite veins (with amphibole and brown clay) with cross-fiber texture and halo; Structure: Massive						



THIN SECTION:	324-1213B-32R-3- 5-W-TS49			Piece No:		Unit:7	OBSERVER:THIN SECTION:TS49
ROCK NAME:	basalt aphyric						
WHERE SAMPLED:	toward base of lithological unit 7 aphyric basalt, large cooling unit of very fine grain (0.2-0.5mm). Massive rare glomerocrysts less than 8mm.						
GRAINSIZE:	very fine grained						
TEXTURE:	interstitial						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
VESICLES	0						
GROUNDMASS	100						
pyroxene	7	6		0.3x0.4	0.2x0.2	equant	
magnetite	3	0		0.2x0.2	0.1x0.1	skeletal, euhedral	
glass	50	95		2	5	patchy	
plagioclase	40	6		0.3x1.0	0.1x0.4	lath, subhedral	
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
STRUCTURE	massive structure						
COMMENTS							
SUMMARY DESCRIPTION	Interstitial Aphyric Basalt; Crystallinity: 50%; Alteration Degree: 50%; Veins: None; Structure: Massive						



THIN SECTION:	324-1213B-32R-4- 4-W-TS45			Piece No:		Unit:	OBSERVER:THIN SECTION:TS45
ROCK NAME:	aphyric basalt						
WHERE SAMPLED:	54 cm from top contact. including one dark vein and one smaller white vein.						
GRAINSIZE:	0.4						
TEXTURE:	aphyric,glomeroporphyritic, subophytic						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
MICROPHENOCRYST							
VESICLES	0						
GROUNDMASS	100						
clinopyroxene	15	16		0.8	0.4	subophytic	
plagioclase	40	16		0.2x1.0	0.1x0.4	laths, laminar twins	
glass	40	100		0.5	0.3	interstitial	
Opaque Minerals	5	0		0.4	0.2		
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
STRUCTURE	seriate texture, massive structure with some irregular veins filled by polycrystalline texture.						
COMMENTS							
SUMMARY DESCRIPTION	Glomeroporphyritic Subophitic Aphyric Basalt; Crystallinity: 60%; Alteration Degree: 50%; Veins: Two generations of irregular/sigmoidal veins, one with calcite/zeolite filling and the second generation with a brow clay filling; Structure: Massive						





THIN SECTION:	324-1213B-33R-6-W 106_108-TS(106-108cm)		Piece No:			Unit:9	OBSERVER:THIN SECTION:
ROCK NAME:	aphyric basalt						TS (106-108cm)
WHERE SAMPLED:	Core was not present during description. Sampled in the deepest section of 1213.						
GRAINSIZE:	fine grained [324]						
TEXTURE:	aphyric to glomeroporphyritic,glomeroporphyritic, subophitic						
PRIMARY	PERCENT	REL. VOL.	SIZE(mm)				
MINERALOGY	ORIGINAL	REPLACED	min.	max.	mode.	MORPHOLOGY	COMMENTS
PHENOCRYSTS	0						
plagioclase	10	15	4x4	4x6	4x5	glomeroporphyritic blast with mainly plagioclase.	plagioclase is zoned and twinned; only 2 glomeroblasts observed in this section.
MICROPHENOCRYST							
VESICLES	0						
GROUNDMASS	100						
pyroxene	5	20		0.8	0.4	subophitic	
plagioclase	20	40		0.2x1.0	0.1x0.4	laths, laminar twinning	
glass	70	100		0.5	0.3	interstitial	
Opaque Minerals	5	20		0.4	0.2		
SECONDARY			SIZE(mm)				
MINERALOGY			min.	max.	mode.	REPLACING/FILLING	COMMENTS
STRUCTURE	two joint. one penetrates the plagioclase phenocryst.						
COMMENTS							
SUMMARY DESCRIPTION	Glomeroporphyritic Subophitic Aphyric Basalt; Crystallinity: 30%; Alteration Degree: 80%; Veins: Thin brown clay veining; Structure: Massive, Two Joints						