

SITE 1001

165-1001A-52R-07, 11-12 cm  
 ROCK NAME: Highly altered basalt.  
 GRAIN SIZE: Cryptocrystalline.  
 TEXTURE: Aphyric.

OBSERVER: SNC

WHERE SAMPLED: Piece 1B

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
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PHENOCRYSTS  
 Plagioclase  
 Clinopyroxene  
 Fe-Ti oxides

GROUNDMASS  
 Plagioclase  
 Clinopyroxene  
 Fe-Ti oxide  
 Mesostasis

SECONDARY MINERALOGY	PERCENT PRESENT	REPLACING/ FILLING	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Clays/saponite?	80	Mesostasis.	0.4			Patches between plagioclase. Coarsely crystalline.
Calcite	20	Sediment.				

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
	5	Uniform.	0.3	None.	Spherical.	

COMMENTS: Highly altered basalt glass in quenched contact with carbonate.

165-1001A-52R-07, 66-67 cm  
 ROCK NAME: Highly altered basalt.  
 GRAIN SIZE: Cryptocrystalline.  
 TEXTURE: Aphyric.

OBSERVER: SNC

WHERE SAMPLED: Piece 9

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
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PHENOCRYSTS  
 Plagioclase  
 Clinopyroxene  
 Fe-Ti oxides

GROUNDMASS  
 Plagioclase  
 Clinopyroxene  
 Fe-Ti oxide  
 Mesostasis

SECONDARY MINERALOGY	PERCENT PRESENT	REPLACING/ FILLING	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Clays/saponite?	90	Mesostasis.				Finely crystalline.
Calcite	10	Sediment.				

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
	5	Uniform.	0.3	None.	Spherical.	

COMMENTS: Highly altered basalt glass in quenched contact with carbonate. Carbonate contains abundant remnant altered shards with curvilinear boundaries.

165-1001A-53R-03, 63-68 cm  
 ROCK NAME: Aphyric basalt.  
 GRAIN SIZE: Medium-grained.  
 TEXTURE: Sub-ophitic to intersertal.

OBSERVER: SNC

WHERE SAMPLED: Piece 4E

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase Clinopyroxene Fe-Ti oxides	Rare	Rare	1.0		Subhedral.	
<b>GROUNDMASS</b>						
Plagioclase	45	45	0.8		Euhedral /subhedral.	Laths.
Clinopyroxene	35	35	0.9		Subhedral/anhedral.	Sub-ophitic texture.
Fe-Ti oxide	8	5	0.2		Subhedral/anhedral.	
Mesostasis	4	4	0.5		Intersertal.	Brownish/altered.
<b>SECONDARY MINERALOGY</b>						
Clays	PERCENT 8	REPLACING/ FILLING Mesostasis.				COMMENTS

VESICLES/ CAVITIES	PERCENT <1	LOCATION Uniform.	SIZE (mm) 1.0	FILLING Clay+ calcite(?).	SHAPE Spherical.	COMMENTS

COMMENTS: Homogeneous, subophitic to intersertal texture.

165-1001A-53R-03, 73-74 cm  
 ROCK NAME: Aphyric basalt.  
 GRAIN SIZE: Medium-grained.  
 TEXTURE: Sub-ophitic to intersertal.

OBSERVER: SNC

WHERE SAMPLED: Piece 1E

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase Clinopyroxene Fe-Ti oxides	Rare	Rare	1.0		Subhedral.	
<b>GROUNDMASS</b>						
Plagioclase	40	40	0.4		Euhedral /subhedral.	Laths.
Clinopyroxene	35	35	0.5		Subhedral/anhedral.	Sub-ophitic texture.
Fe-Ti oxide	9	5	0.2		Subhedral/anhedral.	
Mesostasis	4	4	0.52		Intersertal.	Brownish/altered.
<b>SECONDARY MINERALOGY</b>						
Clays	PERCENT 12	REPLACING/ FILLING Mesostasis.				COMMENTS

VESICLES/ CAVITIES	PERCENT <1	LOCATION Uniform.	SIZE (mm) 1.0	FILLING Clay+ calcite(?).	SHAPE Spherical.	COMMENTS

COMMENTS: Homogeneous, subophitic to intersertal texture.

SITE 1001

165-1001A-53R-04, 109-112 cm  
 ROCK NAME: Sparsely plagioclase-phyric basalt.  
 GRAIN SIZE: Fine-grained.  
 TEXTURE: Sub-ophitic to intersertal.

OBSERVER: SNC

WHERE SAMPLED: Piece 2B

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase	1	1	1.0		Subhedral.	Altered.
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	45	45	0.8		Euhedral /subhedral.	Laths.
Clinopyroxene	35	35	0.9		Subhedral/anhedral.	Sub-ophitic texture.
Fe-Ti oxide	10	10	0.2		Subhedral/anhedral.	
Mesostasis	2	42	0.2		Intersertal.	Brownish/altered.
<b>SECONDARY MINERALOGY</b>						
Clays	8	REPLACING/ FILLING Mesostasis.				COMMENTS
<b>VESICLES/CAVITIES</b>						
	PERCENT <1	LOCATION Uniform.	SIZE (mm) 1.0	FILLING Calcite.	SHAPE Spherical.	COMMENTS

COMMENTS: Subophitic to intersertal texture with radiating laths of plagioclase with intersertal grains of clinopyroxene and opaques. Rare large phenocrysts of plagioclase.

165-1001A-53R-05, 41-43 cm  
 ROCK NAME: Sparsely porphyritic basalt.  
 GRAIN SIZE: Fine-grained.  
 TEXTURE: Microlitic and spherulitic.

OBSERVER: SNC

WHERE SAMPLED: Piece 2B

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase	1	1	0.5		Euhedral.	Some glomerocrysts.
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	35	35	0.3		Euhedral.	Quench morphology.
Clinopyroxene						
Fe-Ti oxide	5	5	0.1		Subhedral.	
Mesostasis	4	4	0.52		Intersertal.	Brownish/altered.
<b>SECONDARY MINERALOGY</b>						
clays	55	REPLACING/ FILLING Mesostasis.				COMMENTS
<b>VESICLES/CAVITIES</b>						
	PERCENT 5	LOCATION Uniform.	SIZE (mm) 0.4	FILLING Clay, chlorite	SHAPE Spherical.	COMMENTS

COMMENTS: Quenched altered basalt with abundant quenched plagioclase crystals and spherulitic texture

165-1001A-54R-1, 130-131 cm  
 ROCK NAME: Aphyric basalt.  
 GRAIN SIZE: Fine-grained.  
 TEXTURE: variolitic.

OBSERVER: SNC

WHERE SAMPLED: Piece 10A

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase Clinopyroxene Fe-Ti oxides						
GROUNDMASS						
Plagioclase Clinopyroxene Fe-Ti oxide Mesostasis		30	2.0		Euhedral.	Quench textures.
SECONDARY MINERALOGY						
clays/chlorite	100	REPLACING/ FILLING Glass, plagioclase, Clinopyroxene.				COMMENTS Completely altered.

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
	3	Uniform.	0.5	Carbonate/ chlorite.	Spherical.	

COMMENTS: Quenched basalt margin with variolitic texture in contact with coarse-grained carbonate. At the interface there is an abundant cubic mineral that is virtually isotropic (chabazite?). Basalt pieces have sharp curvilinear boundaries.

165-1001A-54R-02, 52-53 cm  
 ROCK NAME: Sparsely porphyritic basalt.  
 GRAIN SIZE: Fine-grained.  
 TEXTURE: Microlitic, flow-aligned plagioclase laths .

OBSERVER: SNC

WHERE SAMPLED: Piece 5

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase Clinopyroxene Fe-Ti oxides	1	1	0.5		Euhedral.	Some glomerocrysts.
GROUNDMASS.						
Plagioclase Clinopyroxene Fe-Ti oxide Mesostasis	35 5 4	35 5 4	0.3 0.1 0.52		Euhedral. Subhedral. Intersertal.	Quench morphology.  Brownish/altered.
SECONDARY MINERALOGY						
clays	55	REPLACING/ FILLING Mesostasis.				COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
	5	Uniform.	0.4	Clay, chlorite.	Spherical.	

COMMENTS: Quenched altered basalt with abundant quenched plagioclase crystals with belt buckle textures and flow aligned, and minor plagioclase phenocrysts.

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165-1001A-54R-05, 41-43 cm  
 ROCK NAME: Sparsely porphyritic basalt.  
 GRAIN SIZE: Fine-grained.  
 TEXTURE: Microlitic, flow-aligned plagioclase laths.

OBSERVER: SNC

WHERE SAMPLED: Piece 5

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase	1	1	0.5		Euhedral.	Some glomerocrysts.
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	35	35	0.3		Euhedral.	Quench morphology.
Clinopyroxene						
Fe-Ti oxide	5	5	0.1		Subhedral.	
Mesostasis	4	4	0.52		Intersertal.	Brownish/altered.
<b>SECONDARY MINERALOGY</b>						
clays	PERCENT 55	REPLACING/ FILLING Mesostasis.				COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
	5	Uniform.	0.4	Clay, chlorite.	Spherical.	

COMMENTS: Quenched altered basalt with abundant quenched plagioclase crystals with belt buckle textures and flow aligned, and minor plagioclase phenocrysts.

165-1001A-54R-03, 117-118 cm  
 ROCK NAME: Sparsely porphyritic basalt.  
 GRAIN SIZE: Fine-grained  
 TEXTURE: Quenched with some spherulitic texture.

OBSERVER: SNC

WHERE SAMPLED: Piece 8B

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase	1	1	1.2		Euhedral.	Some glomerocrysts.
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	35	35	0.3		Euhedral.	Quench morphology.
Clinopyroxene						
Fe-Ti oxide	5	5	0.1		Subhedral.	
Mesostasis	4	4	0.52		Intersertal.	Brownish/altered.
<b>SECONDARY MINERALOGY</b>						
clays	PERCENT 55	REPLACING/ FILLING Mesostasis.				COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
	5	Uniform.	0.4	Clay, chlorite.	Spherical.	

COMMENTS: Quenched altered basalt with abundant quenched plagioclase crystals with belt buckle textures, and minor plagioclase phenocrysts.

165-1001A-54R-03, 32-33 cm  
 ROCK NAME: Moderately plagioclase-phyric basalt.  
 GRAIN SIZE: Fine-grained  
 TEXTURE: Sub-ophitic to intersertal.

OBSERVER: SNC

WHERE SAMPLED: Piece 3A

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase	2	2	1.0		Subhedral.	Altered.
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	45	45	0.5		Euhedral /Subhedral.	Laths.
Clinopyroxene	35	35	0.4		Subhedral/anhedral.	Sub-ophitic texture.
Fe-Ti oxide	10	10	0.2		Subhedral/anhedral.	
Mesostasis	2	42	0.2		Intersertal.	Brownish/altered.
<b>SECONDARY MINERALOGY</b>						
Clays	8	REPLACING/ FILLING Mesostasis.				COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
	5	Uniform.	1.0	Calcite/ chlorite.	Spherical.	

COMMENTS: Subophitic to intersertal texture with radiating laths of plagioclase with intersertal grains of clinopyroxene and opaques. Extensive alteration with chlorite and calcite veins.

165-1001A-54R-04, 103-104 cm  
 ROCK NAME: Aphyric basalt.  
 GRAIN SIZE: Fine-grained.  
 TEXTURE: Variolitic.

OBSERVER: SNC

WHERE SAMPLED: Piece 4B

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase						
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	35	35	0.3		Euhedral.	Quench morphology.
Clinopyroxene						
Fe-Ti oxide	5	5	0.1		Subhedral.	
Mesostasis	4	4	0.52		Intersertal.	Brownish/altered.
<b>SECONDARY MINERALOGY</b>						
clays/chlorite	55	REPLACING/ FILLING Mesostasis.				COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
	5	Uniform.	0.4	Clay, chlorite.	Spherical.	

COMMENTS: Quenched altered basalt with abundant quenched plagioclase crystals with belt buckle textures, and minor plagioclase phenocrysts

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165-1001A-54R-05, 10-14 cm

ROCK NAME: Moderately plagioclase-phyric basalt.

GRAIN SIZE: Fine-grained.

TEXTURE: Intersertal and glomeroporphyritic.

OBSERVER: SNC

WHERE SAMPLED: Piece 2

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase	15	15	1.0		Euhedral to subhedral.	Altered.
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	15	15	0.3		Euhedral /Subhedral.	Laths.
Clinopyroxene	10	10	0.3		Subhedral/anhedra.	
Fe-Ti oxide	10	10	0.2		Subhedral/anhedra.	
Mesostasis		50			Intersertal.	Brownish/altered.
<b>SECONDARY MINERALOGY</b>						
Clays	50	REPLACING/ FILLING Mesostasis.				COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
	5	Uniform.	1.5	Calcite/ chlorite.	Spherical.	

COMMENTS: Contact of basalt clasts with carbonate sediment. The basalt clasts are extensively altered with remnant spherulitic structure. Sediment at contact is coarsely recrystallized. Possible pseudomorphs of olivine in rims. Clasts contain glomerocrysts of plagioclase and clinopyroxene up to 1.5 mm length. Alteration at rims is deep orange brown in color (saponite?).

165-1001A-54R-5, 13-16 cm

ROCK NAME: Sparsely to plagioclase-phyric basalt.

GRAIN SIZE: Fine-grained.

TEXTURE: Glassy to variolitic.

OBSERVER: SNC

WHERE SAMPLED: Piece 2

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase	1	1	0.7		Euhedral	
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	10	10	0.3		Euhedral.	Quench morphology.
Clinopyroxene	8	8	0.3		Euhedral/subhedral.	
Fe-Ti oxide	5	5	0.1		Subhedral.	
Mesostasis	4	4	0.52		Intersertal.	Brownish/altered.
<b>SECONDARY MINERALOGY</b>						
clays/palagonite	72	REPLACING/ FILLING Mesostasis.				COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
	8	Uniform.	0.5	Clay, chlorite.	Spherical.	

COMMENTS: Variolitic basalt with microlites and microphenocrysts of plagioclase and pyroxene. Some large plagioclase phenocrysts. Basalt has quenched contact against carbonate sediment with foraminifers.

165-1001A-54R-5, 45-48 cm  
 ROCK NAME: Aphyric basalt.  
 GRAIN SIZE: Fine-grained.  
 TEXTURE: Glassy to variolitic.

OBSERVER: SNC

WHERE SAMPLED: Piece 5

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase						
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	25	25	0.4		Euhedral.	Quench morphology.
Clinopyroxene	10	10	0.3		Euhedral/subhedral.	
Fe-Ti oxide	2	2	0.1		Subhedral.	
Mesostasis						
<b>SECONDARY MINERALOGY</b>						
Clays/palagonite	73	REPLACING/ FILLING Mesostasis.				COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING Carbonate/ chlorite.	SHAPE	COMMENTS
	85	Uniform.	0.5		Spherical.	

COMMENTS: Variolitic basalt with microlites and microphenocrysts of plagioclase and pyroxene. Some large plagioclase phenocrysts. Basalt has quenched contact against carbonate sediment with foraminifers.

165-1001A-54R-07, 15-16 cm  
 ROCK NAME: Sparsely plagioclase-phyric basalt.  
 GRAIN SIZE: Medium-grained.  
 TEXTURE: Sub-ophitic to intersertal.

OBSERVER: SNC

WHERE SAMPLED: Piece 1

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase	1	1	1.0		Subhedral to euhedral.	
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	45	45	0.8		Euhedral /Subhedral.	Laths.
Clinopyroxene	35	35	0.9		Subhedral/anhedral.	Sub-ophitic texture.
Fe-Ti oxide	7	7	0.2		Subhedral/anhedral.	
Mesostasis	4	4	0.5		Intersertal.	Brownish/altered.
<b>SECONDARY MINERALOGY</b>						
Clays	8	REPLACING/ FILLING Mesostasis.				COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING Clay+ calcite(?)	SHAPE	COMMENTS
	<1	Uniform.	1.0		Spherical.	

COMMENTS: Homogeneous, subophitic to intersertal texture. Rare glomerocrysts of plagioclase and clinopyroxene.

SITE 1001

165-1001A-55R-01, 112-113 cm

ROCK NAME: Sparsely plagioclase-phyric basalt.

GRAIN SIZE: Fine- to medium-grained.

TEXTURE: Spherulitic quenched margin.

OBSERVER: SNC

WHERE SAMPLED: Piece 4

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS Plagioclase Clinopyroxene Fe-Ti oxides	2	2	1.5		Subhedral to euhedral.	
GROUNDMASS Plagioclase Clinopyroxene Fe-Ti oxide Mesostasis	10 10 3 4	10 10 3 4	0.7 0.5 0.2 0.5		Euhedral /Subhedral. Subhedral/anhedral. Subhedral/anhedral. Intersertal.	Laths.  Brownish/altered.
SECONDARY MINERALOGY Palagonite/clays	PERCENT 71	REPLACING/ FILLING Glass.				COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
	4	Uniform.	1.0	Clay+ calcite(?).	Spherical.	

COMMENTS: Quenched margin grading from palagonitized sideromelane to spherulitic and variolitic plagioclase-phyric interior.

165-1001A-55R-2, 19-21 cm

ROCK NAME: Sparsely-porphyritic basalt.

GRAIN SIZE: Fine-grained.

TEXTURE: Variolitic and spherulitic.

OBSERVER: SNC

WHERE SAMPLED: Piece 1B

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS Plagioclase Clinopyroxene Fe-Ti oxides	2	2	1.0		Euhedral.	
GROUNDMASS Plagioclase Clinopyroxene Fe-Ti oxide Mesostasis	15 10 8	10 10 8	0.4 0.2 0.1		Euhedral. Euhedral/subhedral. Subhedral/euhedral.	
SECONDARY MINERALOGY Clays	PERCENT 60	REPLACING/ FILLING glass				COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
		6	Uniform.	1.0	carbonate/chlorite spherical	

COMMENTS: Glassy to variolitic basalt with calcite infilling vugs. Subpherical varioles in outer zone have tiny radiating microlites. Abundant quench crystals and microlites of plagioclase and pyroxene with bow-tie shape.

165-1001A-55R-02, 85-86 cm  
 ROCK NAME: Sparsely plagioclase-phyric basalt  
 GRAIN SIZE: fine-grained  
 TEXTURE: Sub-ophitic to intersertal

OBSERVER: SNC

WHERE SAMPLED: Piece 4B

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase	1	1	1.0		Subhedral to euhedral	
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	45	10	0.7		Euhedral /subhedral.	Laths, quench textures.
Clinopyroxene	35	10	0.5		Subhedral/anhedral.	
Fe-Ti oxide	10	10	0.1		Subhedral/anhedral, Euhedral.	
Mesostasis	2	2	0.2		Intersertal.	Brownish/altered.
<b>SECONDARY MINERALOGY</b>						
Clays	7	REPLACING/ FILLING Mesostasis.				COMMENTS
<b>VESICLES/CAVITIES</b>						
	PERCENT <1	LOCATION Uniform.	SIZE (mm) 0.5	FILLING Clay+ calcite(?).	SHAPE Irregular..	COMMENTS

COMMENTS: Radiating clusters of plagioclase laths and clinopyroxene surrounded by intersertal fine-grained plagioclase and clinopyroxene

165-1001A-55R-3, 76-77 cm  
 ROCK NAME: Aphyric basalt.  
 GRAIN SIZE: Fine-grained.  
 TEXTURE: Intersertal to sub-ophitic.

OBSERVER: SNC

WHERE SAMPLED: Piece 11

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase						
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	40	40	0.4		Euhedral.	
Clinopyroxene	25	25	0.2		Euhedral/Subhedral.	
Fe-Ti oxide	10	10	0.1		Subhedral/Euhedral.	
Mesostasis	5	25				
<b>SECONDARY MINERALOGY</b>						
Clays	25	REPLACING/ FILLING Glass.				COMMENTS
<b>VESICLES/CAVITIES</b>						
	PERCENT 3	LOCATION Uniform.	SIZE (mm) 1.0	FILLING Carbonate/ chlorite.	SHAPE Spherical.	COMMENTS

COMMENTS: Fine-grained basalt with intersertal to subophitic texture. Long needles of euhedral plagioclase. Small vesicles filled by chlorite.

SITE 1001

165-1001A-56R-01, 36-37 cm  
 ROCK NAME: Sparsely plagioclase-phyric basalt.  
 GRAIN SIZE: Fine-grained.  
 TEXTURE: Intersertal, quenched structures.

OBSERVER: SNC

WHERE SAMPLED: Piece 3

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase	1	1	0.5		Subhedral/euhedral.	
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	20	20	0.4		Euhedral /subhedral.	Laths, quench textures.
Clinopyroxene	15	15	0.4		Subhedral/anhedral.	
Fe-Ti oxide	10	10	0.1		Subhedral/anhedral.	
					Euhedral.	
Mesostasis						
<b>SECONDARY MINERALOGY</b>						
Clays/chlorite	PERCENT 54	REPLACING/ FILLING Mesostasis.				COMMENTS
<b>VESICLES/CAVITIES</b>						
	PERCENT <1	LOCATION Uniform.	SIZE (mm) 0.2	FILLING Clay+ calcite(?)	SHAPE Irregular.	COMMENTS

COMMENTS: Abundant quenched plagioclase laths with belt buckle morphology. Common remnant spherulitic texture.

165-1001A-56R-03, 109-110 cm  
 ROCK NAME: Aphyric basalt.  
 GRAIN SIZE: Medium-grained.  
 TEXTURE: Subophitic to intersertal.

OBSERVER: SNC

WHERE SAMPLED: Piece 6

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>						
Plagioclase						
Clinopyroxene						
Fe-Ti oxides						
<b>GROUNDMASS</b>						
Plagioclase	40	40	0.5		Euhedral /euhedral	Laths.
Clinopyroxene	35	35	0.4		Subhedral/anhedral	
Fe-Ti oxide	8	8	0.1		Subhedral/euhedral	
Mesostasis						
<b>SECONDARY MINERALOGY</b>						
Clays	PERCENT 13	REPLACING/ FILLING Mesostasis.	0.4			COMMENTS Patches between plagioclase.
<b>VESICLES/CAVITIES</b>						
	PERCENT <1	LOCATION Uniform.	SIZE (mm) 0.4	FILLING None.	SHAPE Irregular.	COMMENTS

COMMENTS: Medium-grained homogenous basalt with subophitic texture and altered patches of mesostasis.