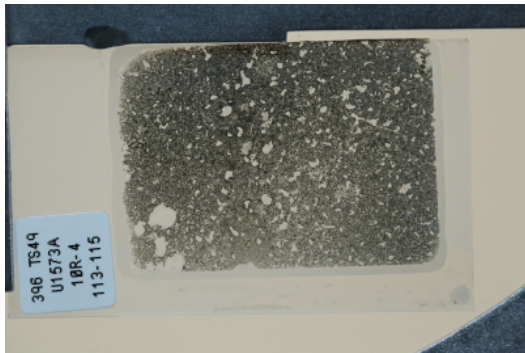
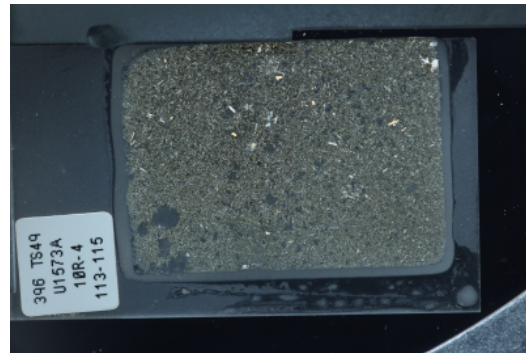


THIN SECTION LABEL ID: **396-U1573A-10R-4-W 113/115-TSB-TS49** Thin section no.:  
 Observer: Sarah Lambart Piece no.:  
 Thin section thickness: 30 Unit/subunit:  
 Thin section summary: Sparsely augite plagioclase phyric basalt. The groundmass is composed of microliths of plagioclase (40%), 10% olivine (mostly recrystallized into saponite) and glass (completely recrystallized into saponite and other clay minerals). The basalt is moderately vesicular with mostly empty vesicles. A small amount (2%) of pyrite is also observed.

Plane-polarized: 60099661



Cross-polarized: 60099701



### Igneous Petrology

**Lithology:** sparsely olivine-plagioclase phyric basalt lava flow **Groundmass grain size (avg.):** microcrystalline  
**Texture:** hypocrystalline **Grain size distribution:** bimodal

Phenocrysts	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	5				20	euhedral	tabular	
Clinopyroxene	2				16	anhedral	tabular	

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	60				10	euhedral	elongate	
Olivine	10		90		5	euhedral	equant	
Glass	30	0		N/A	N/A	N/A	N/A	

### Alteration

**Alteration intensity:** high **Total alteration (%):** **Recrystallization extent:** strong

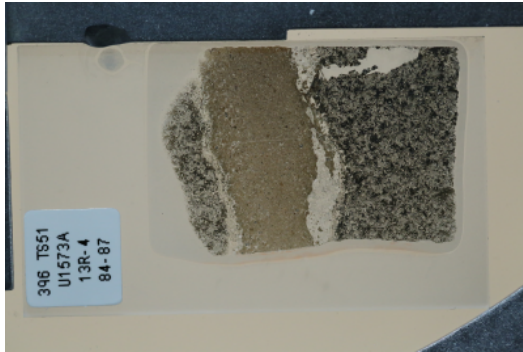
Alteration mineral	Percent	Comments
Clay, saponite	50	brown. Mostly replaced glass and olivine from the groundmass
Sulfide, pyrite	2	

**Vesicle abundance (%):** 20 **Vesicle shape:** subangular **Vesicle distribution:**  
**Vesicle min. size (mm):** **Vesicle max. size (mm):** 10 **Vesicle mode size (mm):** 2

Vesicle fill composition	Percent
Total vesicle fill	10
Calcium carbonate	30
Clay, saponite	70

THIN SECTION LABEL ID: **396-U1573A-13R-4-W 84/87-TSB-TS51** Thin section no.:  
 Observer: Sarah Lambart Piece no.:  
 Thin section thickness: 30 Unit/subunit:  
 Thin section summary: Microcrystallized basaltic andesite lava flow with a variolitic texture (host), cut by a composite vein with a layer of calcite (10%) and a layer of claystone (30%) .

Plane-polarized: 60099801



Cross-polarized: 60099821



### Igneous Petrology

**Lithology:** basaltic andesite lava flow **Groundmass grain size (avg.):** microcrystalline  
**Texture:** variolitic **Grain size distribution:** bimodal

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase					0.5	subhedral	elongate	radial clusters
Clinopyroxene					1	anhedral	equant	

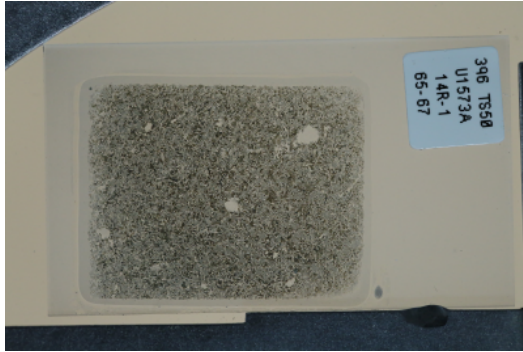
### Alteration

**Alteration intensity:** moderate **Total alteration (%):** **Recrystallization extent:** strong

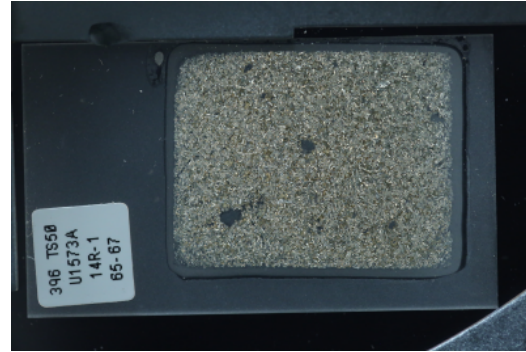
Alteration mineral	Percent	Comments
Clay, saponite	50	brown

THIN SECTION LABEL ID: **396-U1573A-14R-1-W 65/67-TSB-TS50** Thin section no.:  
 Observer: Sarah Lambart Piece no.:  
 Thin section thickness: 30 Unit/subunit:  
 Thin section summary: Basaltic andesite lava flow. The groundmass is composed of fine grain euhedral plagioclase (35%), anhedral residual augite (5%) and saponite (35%), with 25% angular vesicles, mostly filled with saponite.

Plane-polarized: 60099741



Cross-polarized: 60099721



### Igneous Petrology

**Lithology:** basaltic andesite lava flow **Groundmass grain size (avg.):** fine-grained  
**Texture:** hypocrystalline **Grain size distribution:** seriate

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	35				15	subhedral	elongate	
Clinopyroxene		5			1	anhedral	equant	
Fe-Ti oxide	5				0.4	subhedral	equant	

### Alteration

**Alteration intensity:** moderate **Total alteration (%):** **Recrystallization extent:** strong

Alteration mineral	Percent	Comments
Clay, saponite	70	brown

**Vesicle abundance (%):** 20 **Vesicle shape:** very angular **Vesicle distribution:**  
**Vesicle min. size (mm):** **Vesicle max. size (mm):** 10 **Vesicle mode size (mm):** 2

Vesicle fill composition	Percent
Total vesicle fill	90
Clay, saponite	100