

THIN SECTION LABEL ID: **396-U1566A-4R-1-W 48/50-TSB-TS3** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 200 Unit/subunit:
 Thin section summary: Thick section of very altered and partly carbonated phyrlic picrite with euhedral grains of olivine entirely replaced by saponite, euhedral spinel, often in inclusions in olivine and rare subhedral residual clinopyroxene. The picrite is sparsely vesicular, vesicles are partly filled with calcite.



Igneous Petrology

Lithology: picrite Groundmass grain size (avg.): microcrystalline
 Texture: Grain size distribution: bimodal

Phenocrysts	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Olivine	30	0	100			euhedral	euhedral	completely replaced by saponite
Clinopyroxene	3					subhedral	tabular	
Spinel	5					subhedral	equant	

Alteration

Alteration intensity: complete Total alteration (%): Recrystallization extent: complete

Vesicle abundance (%): 20 Vesicle shape: rounded Vesicle distribution:
 Vesicle min. size (mm): Vesicle max. size (mm): 7 Vesicle mode size (mm): 0.5

Vesicle fill composition	Percent
Total vesicle fill	50
Calcium carbonate	100

THIN SECTION LABEL ID: **396-U1566A-4R-2-W 21/23-TSB-TS5** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 30 Unit/subunit:
 Thin section summary: highly carbonated picritic flow. Phenocrysts of olivine and groundmass is mostly replaced by clay mineral and carbonates. Large (0.1-0.3mm) pool of glass, partly replaced by palagonite, are still present.

Plane-polarized: 58687111



Cross-polarized: 58687131



Igneous Petrology

Lithology: picrite lava flow **Groundmass grain size (avg.):** medium-grained
Texture: porphyritic **Grain size distribution:** bimodal

Phenocrysts	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Olivine		0	100					

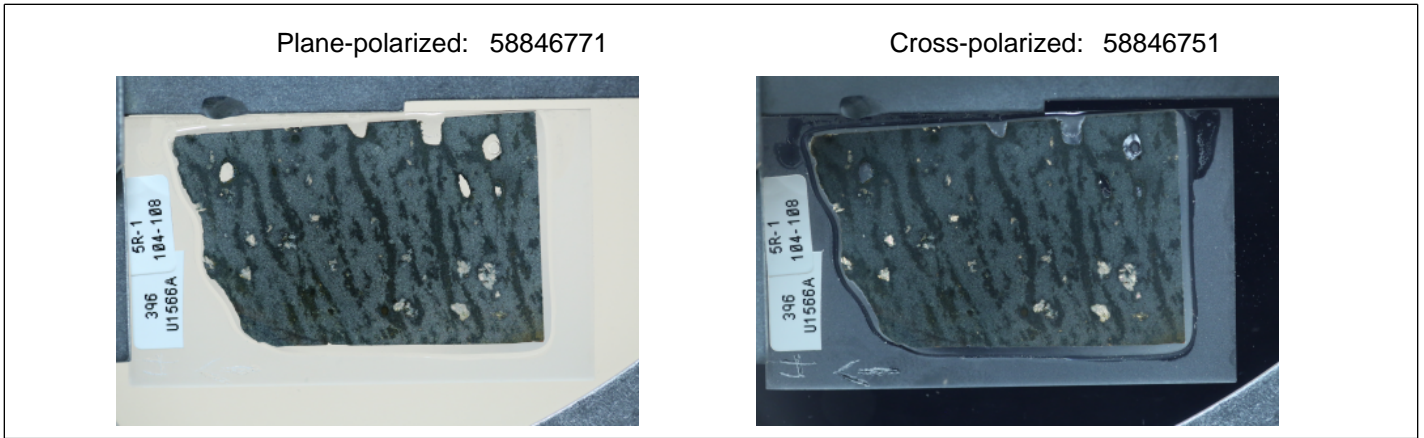
Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	50					euhedral	elongate	
Olivine	10	0	100			euhedral	equant	
Glass	20	75	25	N/A	N/A	N/A	N/A	large pool of glass with palagonitized rims

Alteration

Alteration intensity: high **Total alteration (%):** 90 **Recrystallization extent:** strong

Alteration mineral	Percent	Comments
Calcium carbonate	50	
Clay, brown	30	
Palagonite	10	

THIN SECTION LABEL ID: **396-U1566A-5R-1-W 104/108-TSB-TS4** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 200 Unit/subunit:
 Thin section summary: Thick section of a sparsely plagioclase phyric basalt flow, showing flow texture, though the alignment of very elongated vesicles filled with clay minerals.



Igneous Petrology

Lithology: sparsely plagioclase phyric basalt lava flow **Groundmass grain size (avg.):** cryptocrystalline

Texture: porphyritic **Grain size distribution:** bimodal

Phenocrysts	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	3				6	anhedral	tabular	

Alteration

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

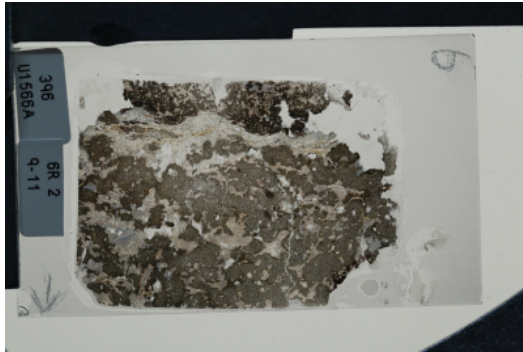
Vesicle abundance (%): 20 **Vesicle shape:** rounded **Vesicle distribution:** subparallel alignment of extremely elongated vesicles.

Vesicle min. size (mm): **Vesicle max. size (mm):** **Vesicle mode size (mm):** 30

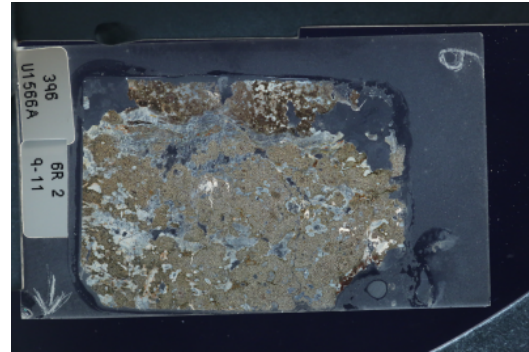
Vesicle fill composition	Percent
Total vesicle fill	100
Clay, saponite	100

THIN SECTION LABEL ID: **396-U1566A-6R-2-W 9/11-TSB-TS6** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 30 Unit/subunit:
 Thin section summary: vesicular aphyric aphanitic basalt strongly altered by clay mineral. Vesicles are mostly filled by zeolite, clay mineral and minor calcite

Plane-polarized: 58722031



Cross-polarized: 58722051



Igneous Petrology

Lithology: aphyric basalt lava flow

Groundmass grain size (avg.): microcrystalline

Texture: aphanitic

Grain size distribution: equigranular

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	40				0.3	subhedral	elongate	
Fe-Ti oxide	10					anhedral	equant	
Glass	0			N/A	N/A	N/A	N/A	

Alteration

Alteration intensity: high

Total alteration (%):

Recrystallization extent: strong

Alteration mineral	Percent	Comments
Clay, brown	30	

Vesicle abundance (%): 40

Vesicle shape: subrounded

Vesicle distribution:

Vesicle min. size (mm):

Vesicle max. size (mm): 20

Vesicle mode size (mm): 0.3

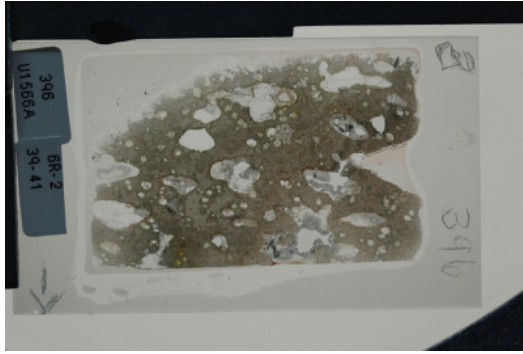
Vesicle fill composition	Percent
Total vesicle fill	90
Calcium carbonate	5
Zeolite	80
Clay, saponite	15

Veins and Halos

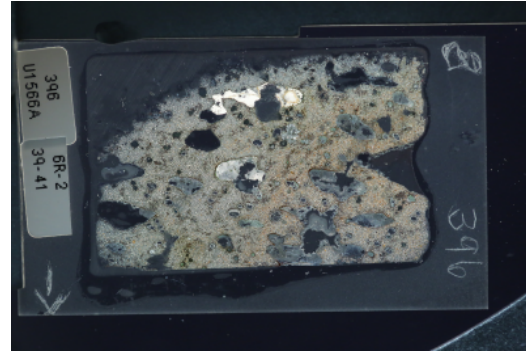
Vein type:	composite vein	Vein boundary:	sharp boundary or contact
Avg. thickness (cm):	0.5	Vein texture:	polycrystalline

THIN SECTION LABEL ID: **396-U1566A-6R-2-W 39/41-TSB-TS8** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 30 Unit/subunit:
 Thin section summary: vesicular microcrystalline basalt moderately altered by clay mineral. Vesicles are partly filled by clay mineral (saponite), zeolite and calcite. Microlites of plagioclase in the altered groundmass are prismatic and are locally forming clusters

Plane-polarized: 58687231



Cross-polarized: 58687251



Igneous Petrology

Lithology: aphyric basalt lava flow

Groundmass grain size (avg.): microcrystalline

Texture: aphyric

Grain size distribution: equigranular

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase					0.5	subhedral	elongate	
Olivine		0.1				anhedral		residual
Glass	0			N/A	N/A	N/A	N/A	

Alteration

Alteration intensity: moderate

Total alteration (%):

Recrystallization extent: strong

Vesicle abundance (%): 30

Vesicle shape: subrounded

Vesicle distribution:

Vesicle min. size (mm):

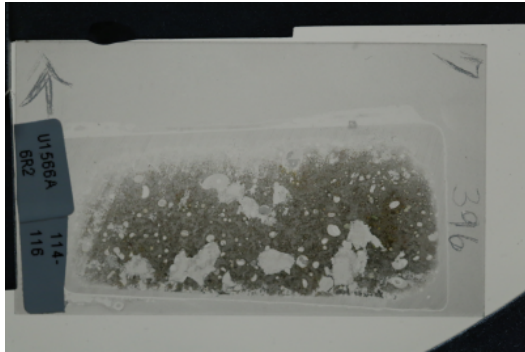
Vesicle max. size (mm):

Vesicle mode size (mm): 3

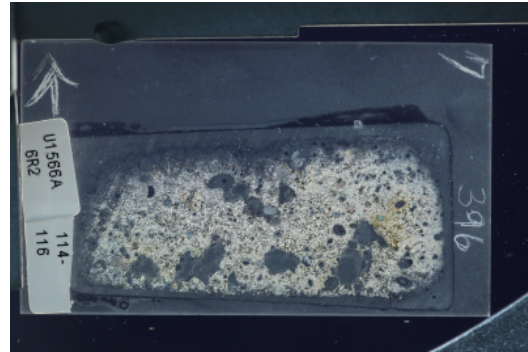
Vesicle fill composition	Percent
Total vesicle fill	20
Calcium carbonate	20
Zeolite	40
Clay, saponite	40

THIN SECTION LABEL ID: **396-U1566A-6R-2-W 114/116-TSB-TS7** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 30 Unit/subunit:
 Thin section summary: vesicular aphyric aphanitic basalt moderately altered by clay mineral. Vesicles are partly filled by clay mineral (saponite) and zeolite.

Plane-polarized: 58687171



Cross-polarized: 58687191



Igneous Petrology

Lithology: aphyric basalt lava flow
Texture: aphyric

Groundmass grain size (avg.): microcrystalline
Grain size distribution: equigranular

Alteration

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

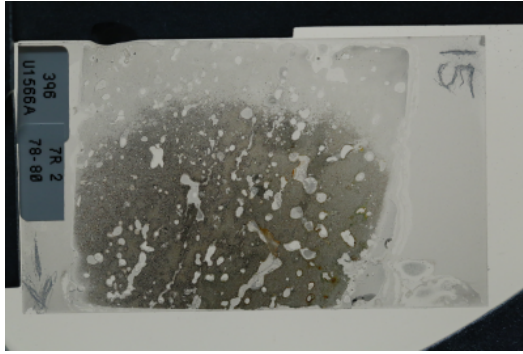
Vesicle abundance (%): **Vesicle shape:** subrounded **Vesicle distribution:**

Vesicle min. size (mm): **Vesicle max. size (mm):** **Vesicle mode size (mm):**

Vesicle fill composition	Percent
Total vesicle fill	20
Calcium carbonate	10
Zeolite	30
Clay, saponite	60

THIN SECTION LABEL ID: **396-U1566A-7R-2-W 78/80-TSB-TS15** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 30 Unit/subunit:
 Thin section summary: sparsely plagioclase phyric basalt lava flow. The groundmass is microcrystallized with microlites of prismatic plagioclases. Highly vesicular with elongated and subparallel vesicles describing a flow texture. Vesicles are filled with saponite, zeolite and calcite

Plane-polarized: 58722371



Cross-polarized: 58722391



Igneous Petrology

Lithology: sparsely plagioclase phyric basalt lava flow **Groundmass grain size (avg.):** cryptocrystalline
Texture: porphyritic **Grain size distribution:** bimodal

Phenocrysts	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	2					subhedral	tabular	

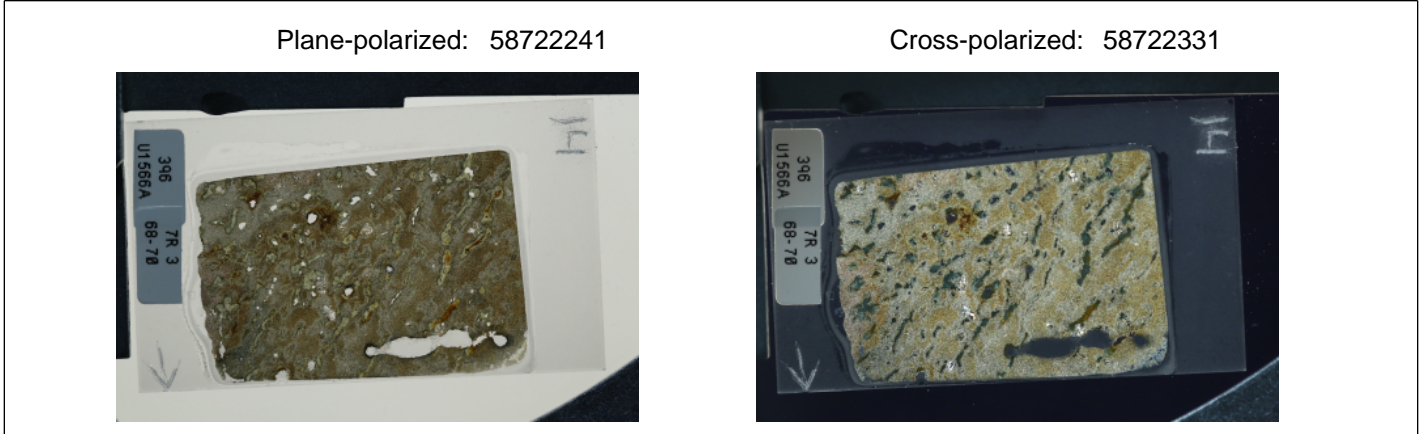
Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase					0.5	subhedral	elongate	

Alteration

Vesicle abundance (%): 30 **Vesicle shape:** subrounded **Vesicle distribution:**
Vesicle min. size (mm): **Vesicle max. size (mm):** 15 **Vesicle mode size (mm):** 8

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

THIN SECTION LABEL ID: **396-U1566A-7R-3-W 68/70-TSB-TS14** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 30 Unit/subunit:
 Thin section summary: sparsely plagioclase phyric basalt lava flow. The groundmass is microcrystallized with microlites of prismatic plagioclases, sometime forming clusters and small clinopyroxenes. Highly vesicular with elongated and subparallel vesicles describing a flow texture.



Igneous Petrology

Lithology: sparsely plagioclase phyric basalt lava flow **Groundmass grain size (avg.):** cryptocrystalline

Texture: porphyritic **Grain size distribution:** bimodal

Phenocrysts	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	2					subhedral	tabular	

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase		50			0.5	subhedral	elongate	
Clinopyroxene		5				anhedral	tabular	
Fe-Ti oxide	20					anhedral		show variable distribution/flow texture through the TS

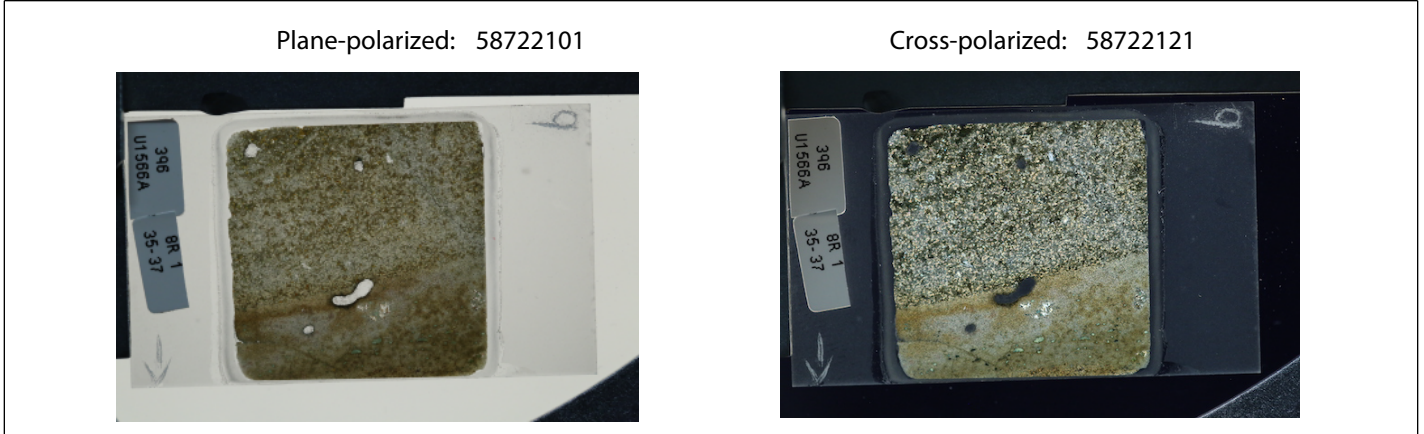
Alteration

Vesicle abundance (%): 35 **Vesicle shape:** subrounded **Vesicle distribution:**

Vesicle min. size (mm): **Vesicle max. size (mm):** 20 **Vesicle mode size (mm):** 8

Vesicle fill composition	Percent
Total vesicle fill	70
Clay, saponite	100

THIN SECTION LABEL ID: **396-U1566A-8R-1-W 35/37-TSB-TS9** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 30 Unit/subunit:
 Thin section summary: section with two domains showing different grain sizes. Domain 1 is microcrystalline with microlites of plagioclase and smaller altered plagioclase and clinopyroxene in the ground mass. Domain 2 is cryptocrystalline. Both domains are sparsely vesicular. Vesicles are partly filled with saponite.



Igneous Petrology

Lithology: aphyric basalt lava flow **Groundmass grain size (avg.):** microcrystalline
Texture: aphanitic **Grain size distribution:** bimodal

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	40				1	subhedral	elongate	
Clinopyroxene	30	10	20					
Glass	0			N/A	N/A	N/A	N/A	

Igneous Petrology

Lithology: aphyric basalt lava flow **Groundmass grain size (avg.):** cryptocrystalline
Texture: aphanitic **Grain size distribution:** bimodal

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	50							
Glass	0			N/A	N/A	N/A	N/A	

Alteration

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

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

Vesicle fill composition	Percent
Total vesicle fill	10

Alteration

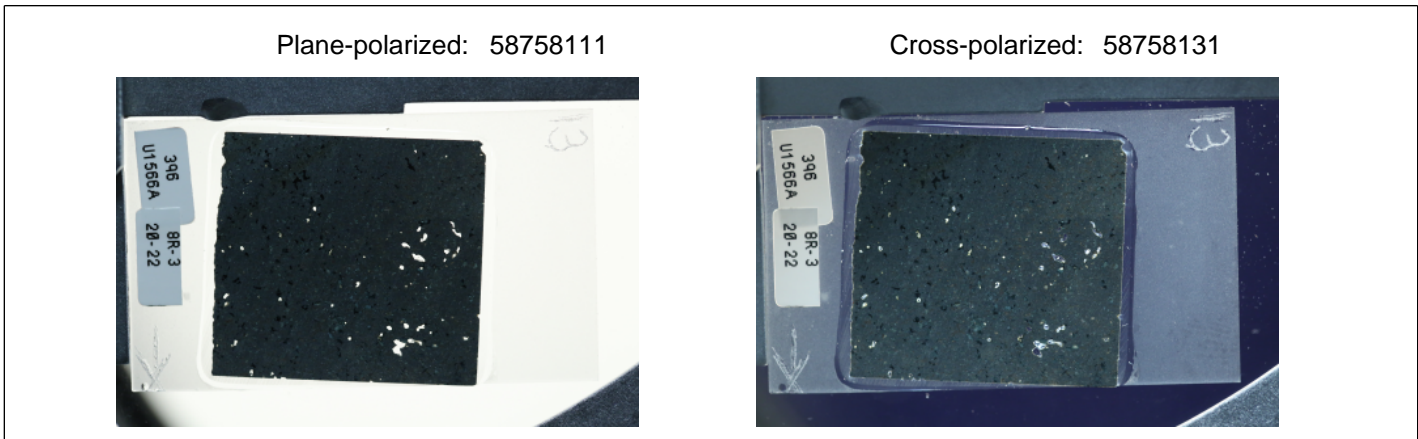
Alteration intensity: moderate **Total alteration (%):** **Recrystallization extent:** strong

Vesicle abundance (%): 10 **Vesicle shape:** subrounded **Vesicle distribution:**

Vesicle min. size (mm): **Vesicle max. size (mm):** **Vesicle mode size (mm):** 0.5

Vesicle fill composition	Percent
Total vesicle fill	50
Clay, saponite	100

THIN SECTION LABEL ID: **396-U1566A-8R-3-W 20/22-TSB-TS13** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 200 Unit/subunit:
 Thin section summary: Thick section of sparsely plagioclase phyric highly altered basalt



Igneous Petrology

Lithology: sparsely plagioclase phyric basalt lava flow **Groundmass grain size (avg.):** microcrystalline

Texture: aphanitic **Grain size distribution:** seriate

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	30	5			0.5	subhedral	elongate	
Fe-Ti oxide	10							
Glass	30	0	100	N/A	N/A	N/A	N/A	

Alteration

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

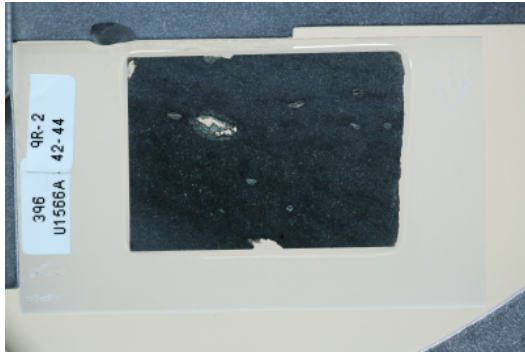
Vesicle abundance (%): 20 **Vesicle shape:** subrounded **Vesicle distribution:**

Vesicle min. size (mm): **Vesicle max. size (mm):** 1 **Vesicle mode size (mm):** 0.5

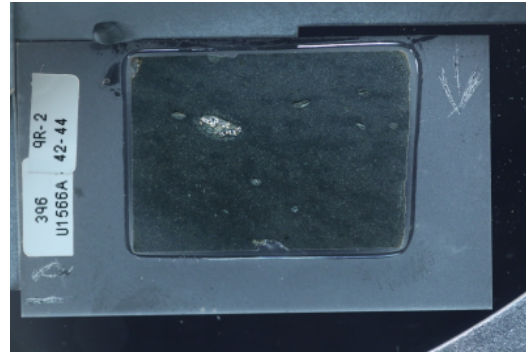
Vesicle fill composition	Percent
Total vesicle fill	80

THIN SECTION LABEL ID: **396-U1566A-9R-2-W 42/44-TSB-TS10** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 200 Unit/subunit:
 Thin section summary: Thick section of an aphyric basalt flow, showing subparallel alignment of vesicles filled with clay minerals.

Plane-polarized: 58847791



Cross-polarized: 58847821



Igneous Petrology

Lithology: aphyric basalt lava flow **Groundmass grain size (avg.):** cryptocrystalline
Texture: aphanitic **Grain size distribution:** seriate

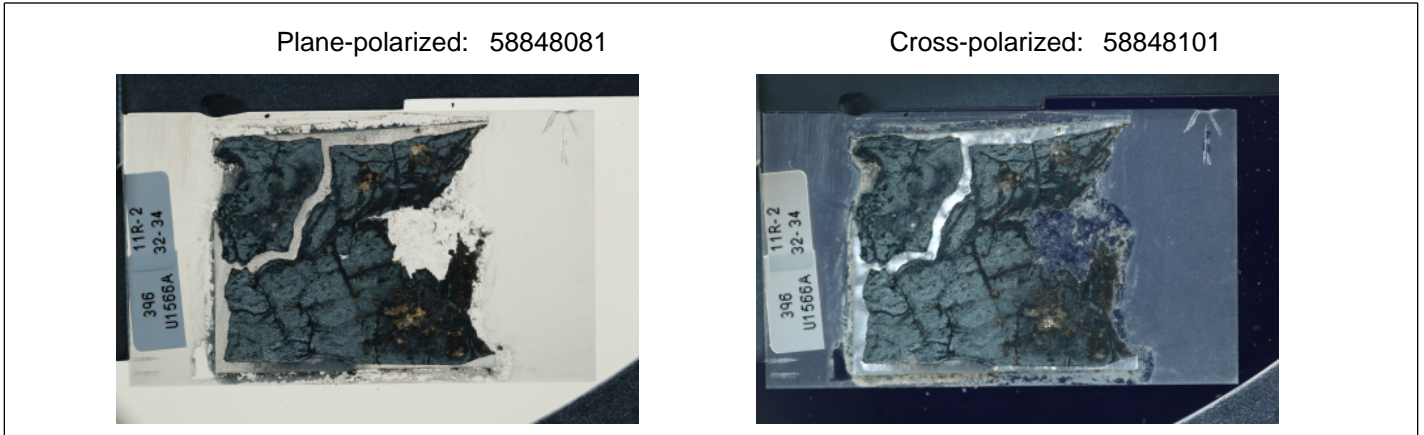
Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	50	20	80			subhedral	elongate	

Alteration

Vesicle abundance (%): 20 **Vesicle shape:** rounded **Vesicle distribution:** subparallel alignment of extremely elongated vesicles.
Vesicle min. size (mm): **Vesicle max. size (mm):** **Vesicle mode size (mm):** 10

Vesicle fill composition	Percent
Total vesicle fill	95
Clay, saponite	100

THIN SECTION LABEL ID:	396-U1566A-11R-2-W 32/34-TSB-TS11	Thin section no.:	
Observer:	SL	Piece no.:	
Thin section thickness:		Unit/subunit:	
Thin section summary:	failed thin section of the andesitic volcanoclastic (material too friable to be polished). The section shows highly altered phenocrysts of felspars in a groundmass completely replaced by clay minerals		



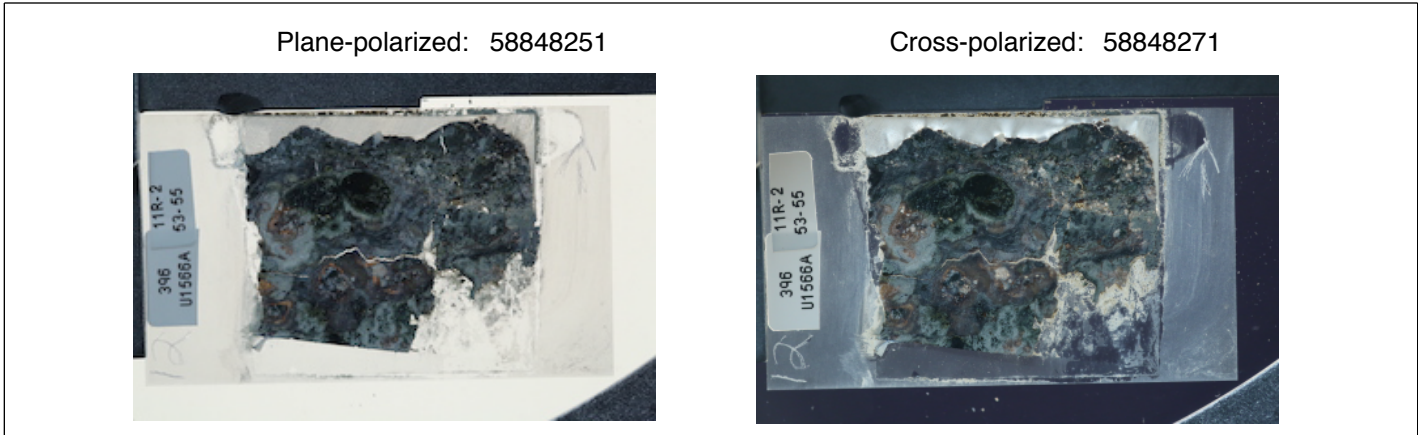
Igneous Petrology

Lithology:	moderately plagioclase phyric andesite	Groundmass grain size (avg.):	cryptocrystalline
Texture:	porphyritic	Grain size distribution:	bimodal

Alteration

Alteration intensity:	complete	Total alteration (%):		Recrystallization extent:	strong
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THIN SECTION LABEL ID: **396-U1566A-11R-2-W 53/55-TSB-TS12** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: Unit/subunit:
 Thin section summary: failed thin section of the contact between the andesitic volcanoclastic flow and the sediments (material too friable to be polished). The section shows highly altered phenocrysts of feldspars in a groundmass completely replaced by clay minerals



Igneous Petrology

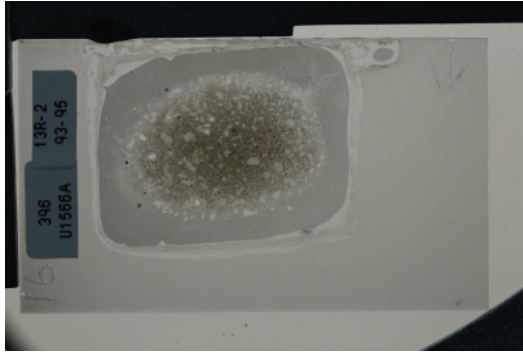
Lithology:	moderately plagioclase phyric andesite	Groundmass grain size (avg.):	glass
Texture:	porphyritic	Grain size distribution:	bimodal

Alteration

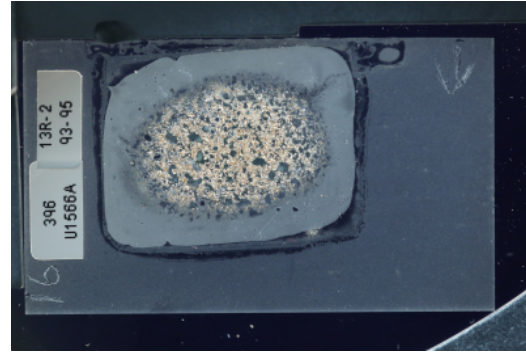
Alteration intensity:	complete	Total alteration (%):	Recrystallization extent: strong
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THIN SECTION LABEL ID: **396-U1566A-13R-2-W 93/95-TSB-TS16** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 30 Unit/subunit:
 Thin section summary: aphyric aphanitic basalt, highly vesicular. The groundmass is cryptocrystalline, dominated by microlites of plagioclase with smaller amount of olivine (replaced by iddingsite), cpx and oxides. Vesicles are mostly filled with clay minerals.

Plane-polarized: 58848431



Cross-polarized: 58848521



Igneous Petrology

Lithology: aphyric basalt lava flow **Groundmass grain size (avg.):** cryptocrystalline
Texture: aphanitic **Grain size distribution:** equigranular

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	50					subhedral	elongate	
Clinopyroxene	10					anhedral	equant	
Olivine	30	0	100			anhedral	equant	replaced by iddingsite
Fe-Ti oxide		10				anhedral	equant	

Alteration

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

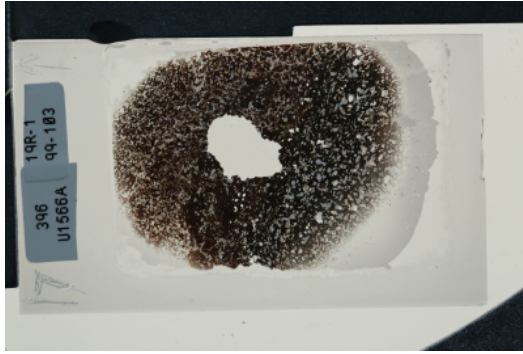
Vesicle abundance (%): 30 **Vesicle shape:** subangular **Vesicle distribution:**

Vesicle min. size (mm): **Vesicle max. size (mm):** **Vesicle mode size (mm):** 0.6

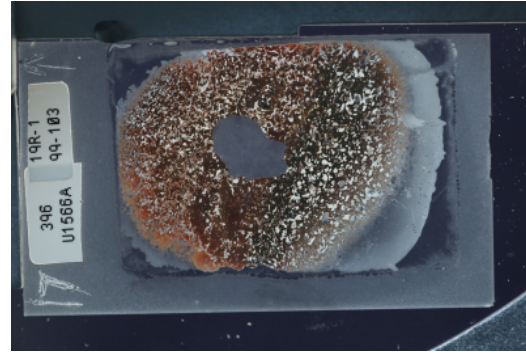
Vesicle fill composition	Percent
Total vesicle fill	90
Clay, saponite	100

THIN SECTION LABEL ID: **396-U1566A-19R-1-W 99/103-TSB-TS17** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 30 Unit/subunit:
 Thin section summary: Contact between hypocrySTALLINE aphyric basalt lava flow (Domain 1) and hypohyaline aphyric lava flow (Domain 2). The glass and groundmass and fully replaced by palagonite and clay minerals.

Plane-polarized: 58849661



Cross-polarized: 58849681



Igneous Petrology

Lithology: aphyric basalt lava flow Groundmass grain size (avg.): glass
 Texture: hypocrySTALLINE Grain size distribution: seriate

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Glass	30	0	100	N/A	N/A	N/A	N/A	

Igneous Petrology

Lithology: aphyric basalt lava flow Groundmass grain size (avg.): glass
 Texture: holohyaline Grain size distribution: seriate

Phenocrysts	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Clinopyroxene	0.5					anhedral	tabular	

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Glass	70	0	100	N/A	N/A	N/A	N/A	

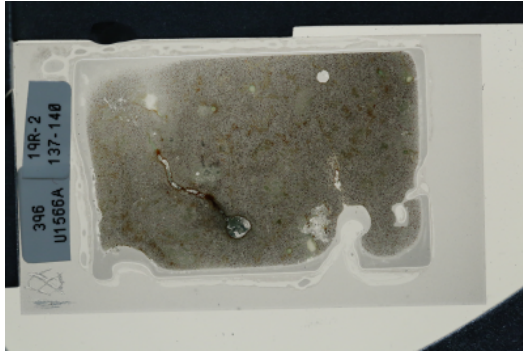
Alteration

Alteration intensity: complete Total alteration (%): Recrystallization extent: complete

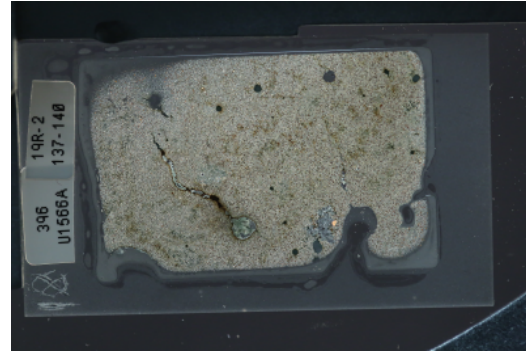
Alteration mineral	Percent	Comments
Clay, brown	50	
Palagonite	50	

THIN SECTION LABEL ID: **396-U1566A-19R-2-W 137/140-TSB-TS18** Thin section no.:
 Observer: Piece no.:
 Thin section thickness: 30 Unit/subunit:
 Thin section summary: aphyric aphanitic basalt, non vesicular, showing very rare (<1%) phenocrysts of plagioclase and augite. The groundmass is cryptocrystalline and highly altered into clay minerals.

Plane-polarized: 58849731



Cross-polarized: 58849751



Igneous Petrology

Lithology: aphyric basalt **Groundmass grain size (avg.):** cryptocrystalline
Texture: porphyritic **Grain size distribution:** bimodal

Phenocrysts	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	1				2.5	subhedral	tabular	
Clinopyroxene	1				0.5	subhedral	equant	

Igneous Petrology

Lithology: aphyric basalt lava flow **Groundmass grain size (avg.):**
Texture: aphanitic **Grain size distribution:**

Phenocrysts	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Clinopyroxene	0.5					euhedral		

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	50	30	70		0.5	subhedral	elongate	
Clinopyroxene	20	10	90		0.2	anhedral	equant	
Olivine	15	0	100			euhedral	equant	fully replaced by iddingsite

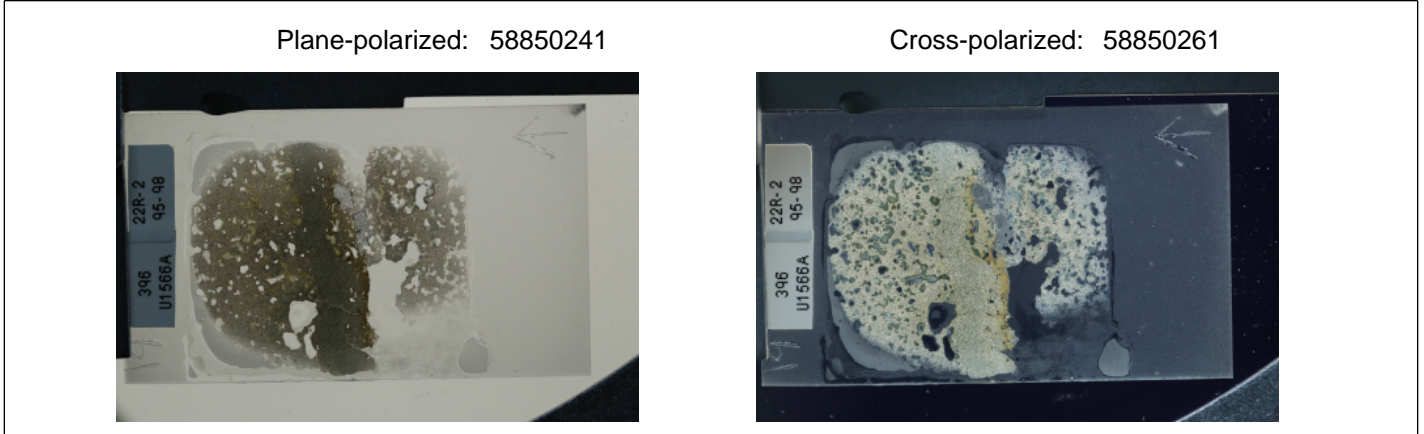
Alteration

Alteration intensity: high

Total alteration (%):

Recrystallization extent: strong

THIN SECTION LABEL ID: **396-U1566A-22R-2-W 95/98-TSB-TS19** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 30 Unit/subunit:
 Thin section summary: Layer of a sparsely vesicular aphyric aphanitic basalt (Domain 2) inside a highly vesicular aphyric aphanitic basalt (Domain 1). The basalt highly altered with 80-90% of the groundmass replaced by brown-green clay minerals. Vesicles are subangular and partly filled with saponite (+ zeolite).



Igneous Petrology
 Lithology: aphyric basalt lava flow Groundmass grain size (avg.): cryptocrystalline
 Texture: aphanitic Grain size distribution: granular

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Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase		5				anhedral	tabular	
Olivine		2				anhedral	equant	

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

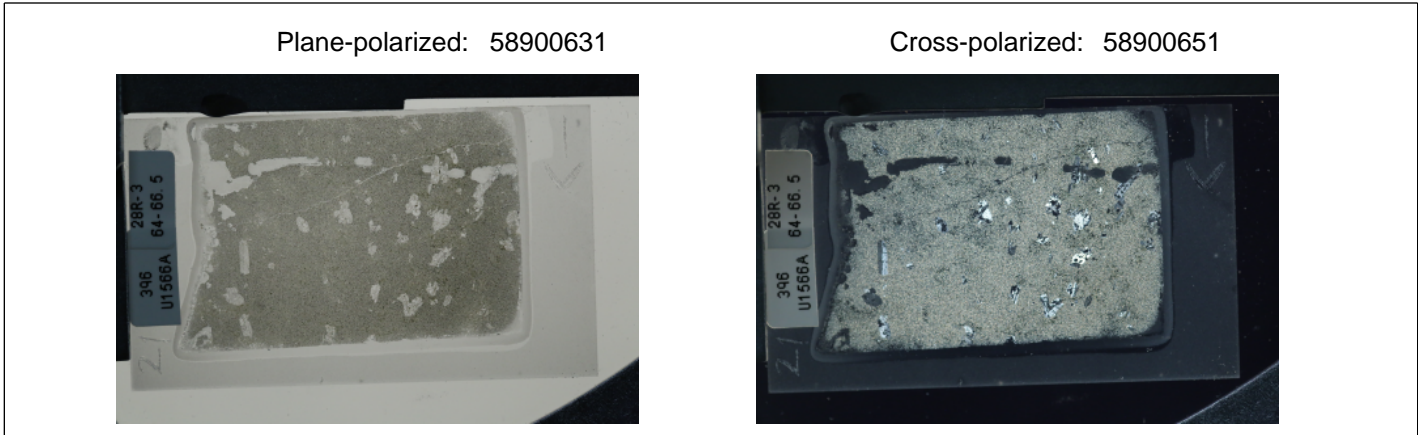
Alteration mineral	Percent	Comments
Clay, brown	90	

Vesicle abundance (%): 50 Vesicle shape: subangular Vesicle distribution:
 Vesicle min. size (mm): Vesicle max. size (mm): Vesicle mode size (mm): 5

Vesicle fill composition	Percent
Total vesicle fill	70
Zeolite	10
Clay, saponite	90

Alteration		
Alteration intensity: high	Total alteration (%):	Recrystallization extent: strong
Alteration mineral	Percent	Comments
Clay, brown	80	
Clay, green	10	10
Vesicle abundance (%): 1	Vesicle shape: subangular	Vesicle distribution:
Vesicle min. size (mm):	Vesicle max. size (mm):	Vesicle mode size (mm): 0.1
Vesicle fill composition	Percent	
Total vesicle fill	30	
Clay, saponite	100	

THIN SECTION LABEL ID: **396-U1566A-28R-3-W 64/67-TSB-TS21** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 30 Unit/subunit:
 Thin section summary: moderately plagioclase aphyric basalt with a plagioclase-rich cryptocrystalline groundmass. The groundmass is highly altered. The lava is massive, with only rare occurrences of <1mm vesicles.



Igneous Petrology

Lithology: moderately plagioclase aphyric basalt lava flow **Groundmass grain size (avg.):** cryptocrystalline

Texture: porphyritic **Grain size distribution:** bimodal

Phenocrysts	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	5					subhedral	tabular	

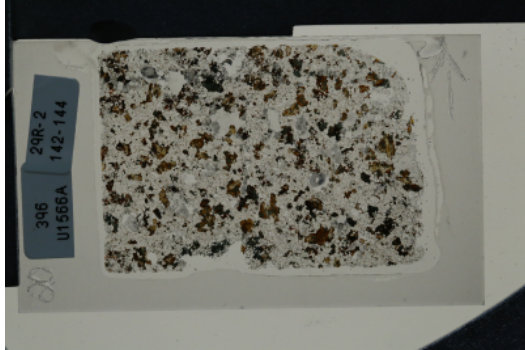
Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	60					subhedral	elongate	
Clinopyroxene	20					anhedral	tabular	

Alteration

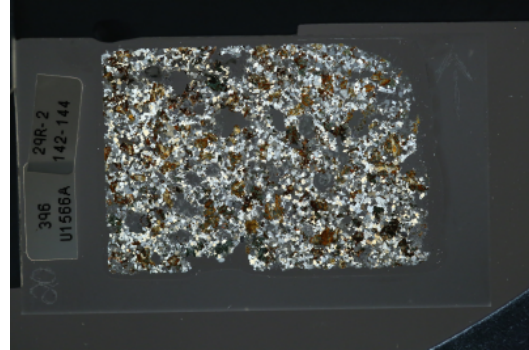
Alteration intensity: high **Total alteration (%):** **Recrystallization extent:** strong

THIN SECTION LABEL ID: **396-U1566A-29R-2-W 142/144-TSB-TS20** Thin section no.:
 Observer: SL Piece no.:
 Thin section thickness: 35 Unit/subunit:
 Thin section summary: moderately altered quartz-rich biotite granite. Alkali fds are greatly altered and replaced by clay minerals. Biotite is partly chloritized.

Plane-polarized: 58850301



Cross-polarized: 58850321



Intrusive Petrology

Lithology: biotite granite **Groundmass grain size (avg.):** medium-grained
Texture: holocrystalline **Grain size distribution:** seriate

Phenocrysts	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comment
Quartz		50				anhedral	equant	

Other minerals comment:

30% biotite partly chloritized, 50% quartz, 20% feldspars, very altered