

K 209-1a (Sep, 5, 2001)

Described by E. Takahashi

Sample Size : X= 13 cm, Y= 12 cm, Z= 9 cm; Weight: 1kg

Mn coating : 0 mm; Color (inside the rock): black

Alteration: no* weak strong; Vesicularity 30 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

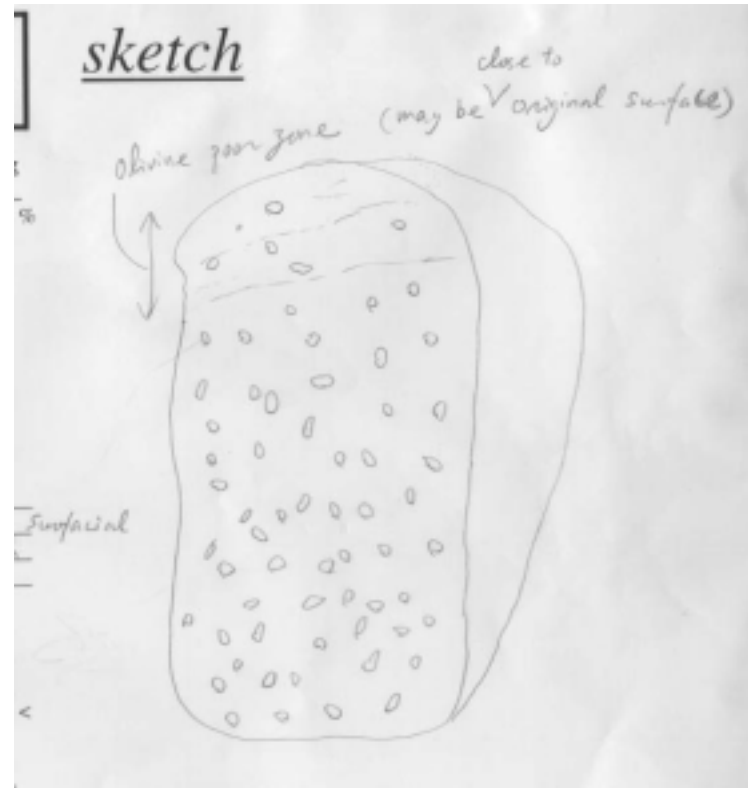
Ol basalt* Phenocrysts= ol: 20 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks___olivine-rich basalt with near surficial past, . Highly vesiculated



Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure:_____



K 209-1b (Sep, 5, 2001)

Described by T. Kani

Sample Size : X= 20 cm, Y= 14 cm, Z= 10 cm; **Weight**: 2kg

Mn coating : 0 mm; **Color (inside the rock)**: black

Alteration: no weak* strong; **Vesicularity** 40 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt* Phenocrysts= ol: 15 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

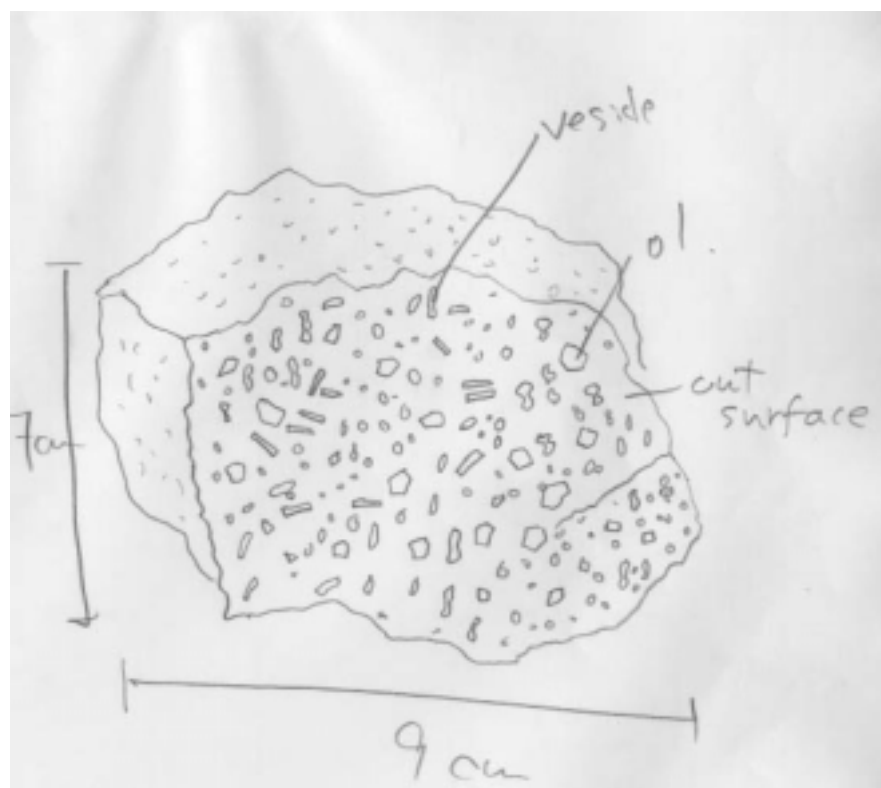
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or unlithified

Sedimentary structure: _____



K 209-2a (Sep, 5, 2001)

Described by T. Kunikiyo

Sample Size : X= 9 cm, Y= 9 cm, Z= 7 cm; **Weight:** 500g

Mn coating : 0 mm; **Color (inside the rock):** dark blue

Alteration: no weak* strong; **Vesicularity** 30 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt* Phenocrysts= ol: 10 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks_____highly vesiculated

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

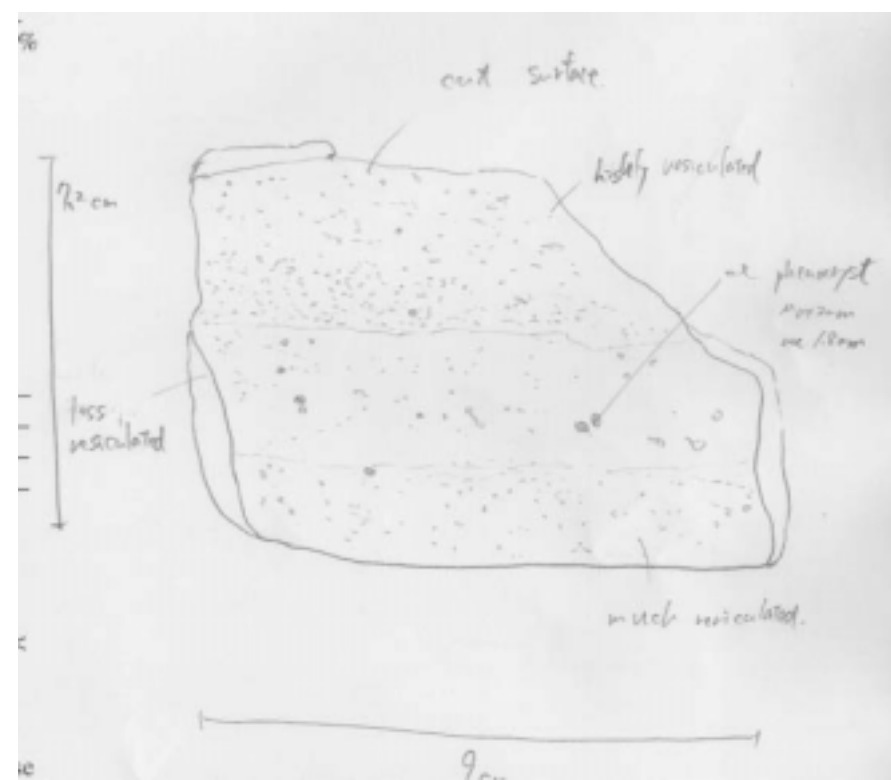
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure:_____



K 209-2b

(Sep, 5, 2001)

Described by T. Hanyu

Sample Size : X= 10 cm, Y= 8 cm, Z= 7 cm; **Weight:** 300g

Mn coating : 0 mm; **Color (inside the rock):** black

Alteration: no* weak strong; **Vesicularity** 50 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock* Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks _____ highly vesiculated

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

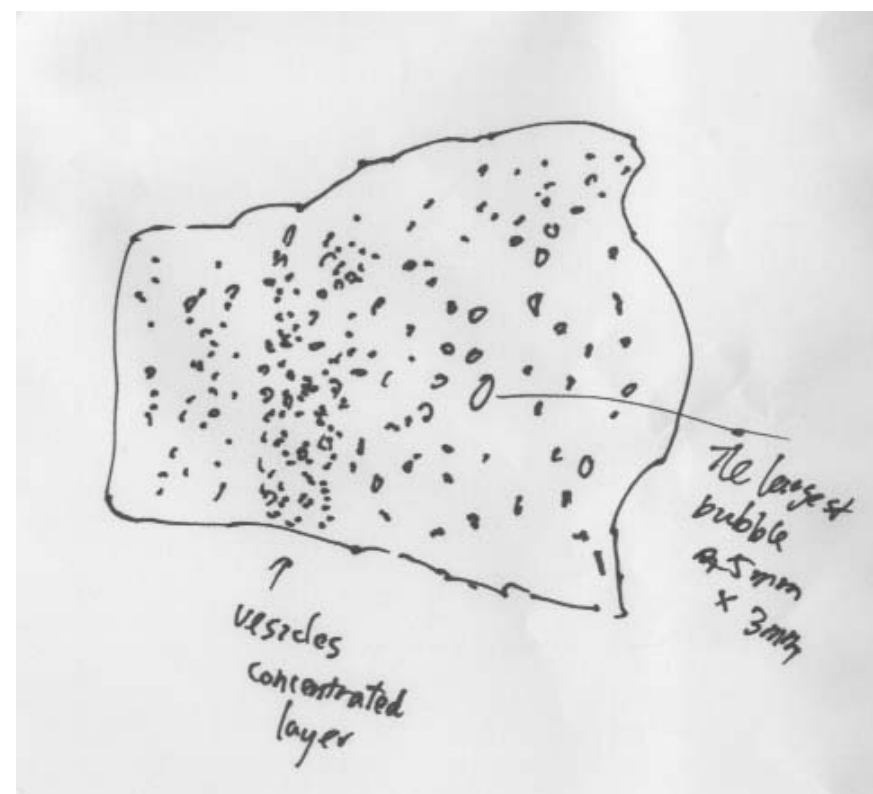
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 209-3a (Sep, 5, 2001)

Described by Y. Orihashi

Sample Size : X= 12 cm, Y= 9 cm, Z= 8 cm; **Weight:** 600g

Mn coating : 0 mm; **Color (inside the rock):** dark grey, brown

Alteration: no weak* * strong; **Vesicularity** >40 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock*Phenocrysts= 0.5 %, %

Others Phenocrysts= %, %

Remarks___rarely olivine pheno (size 1-2 mm)

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

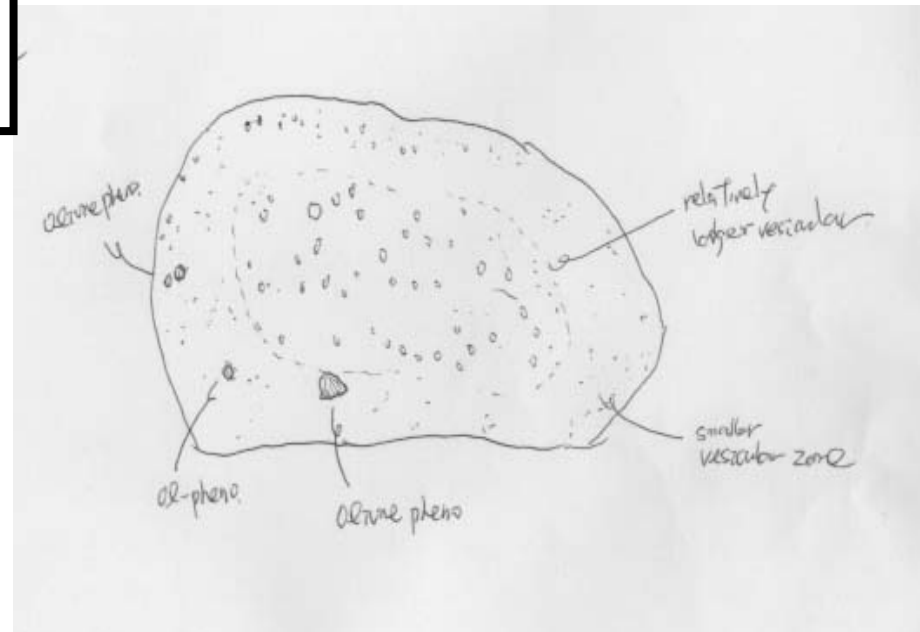
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure:_____



K 209-3b (Sep, 5, 2001)

Described by J. Kimura

Sample Size : X= 5 cm, Y= 4 cm, Z= 3 cm; **Weight**: 50g

Mn coating : 0 mm; **Color (inside the rock)**: black

Alteration: no weak strong; **Vesicularity** 10 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

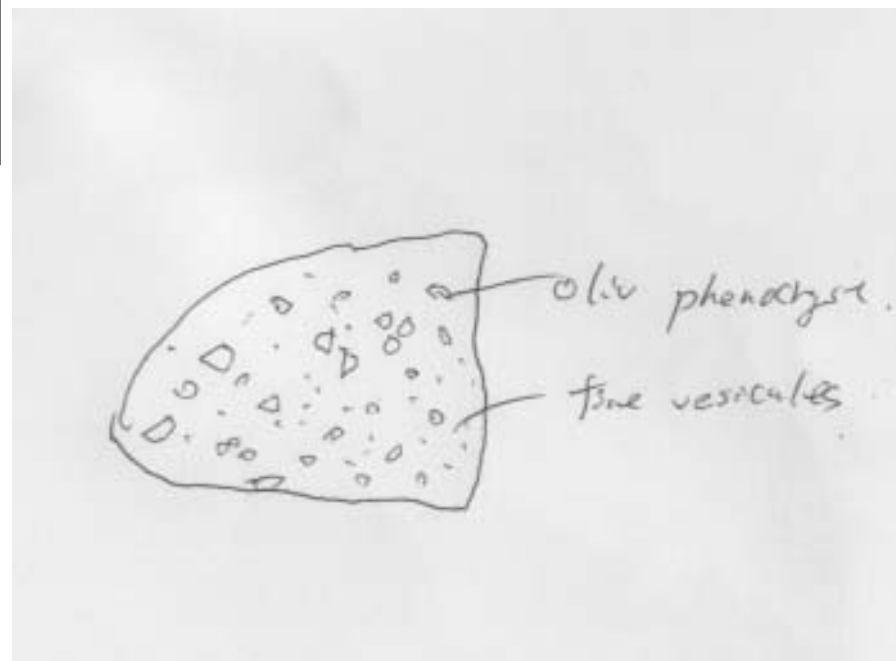
Picrite*	Phenocrysts=	ol:15 %,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand paragonaite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: _____



K 209-4a (Sep, 5, 2001)

Described by P. Lipman

Sample Size : X= 13 cm, Y= 12 cm, Z= 10 cm; Weight: 1.8kg
 Mn coating : 0 mm; Color (inside the rock): _____
 Alteration: no weak strong; Vesicularity _____ %
 Lithology: monomict or polymict
 Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 3-4 mm

Picrite*	Phenocrysts=	15-20 %,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____ small but abund ol phenos; probably subaerial pahoehoe bud

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand paragonaite volcanic glass	
	Lithified or	unlithified

Sedimentary structure: _____



K 209-4b (Sep, 5, 2001)

Described by Y. Orihashi

Sample Size : X= 18 cm, Y= 14 cm, Z= 10 cm; **Weight:** 1.5kg

Mn coating : 0 mm; **Color (inside the rock):** dark grey

Alteration: no* weak strong; **Vesicularity** >30 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

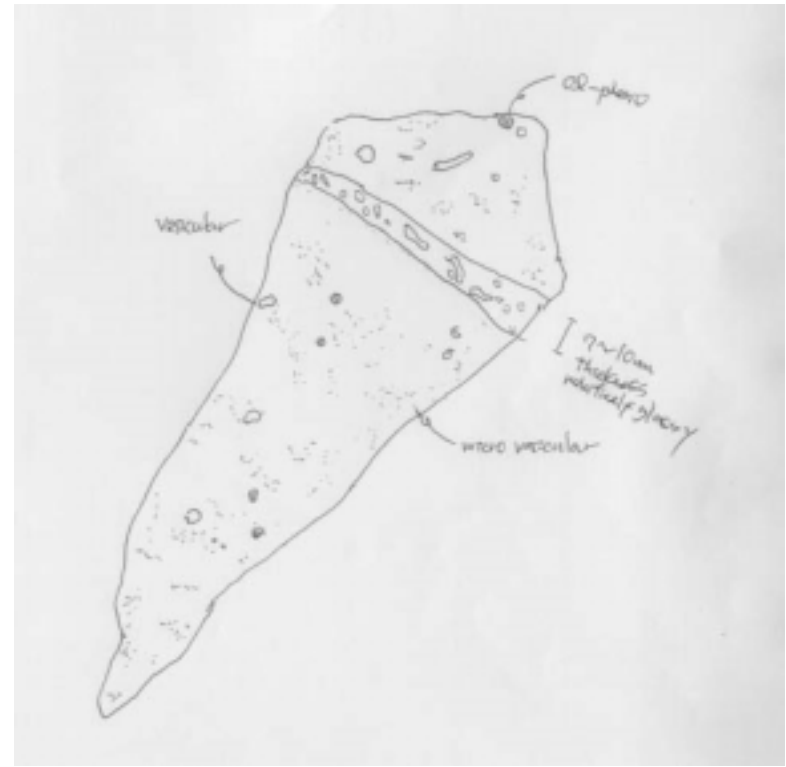
Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock*Phenocrysts= ol: <0.5 %, %

Others Phenocrysts= %, %

Remarks____relatively glassy and high vesicularity zone with 7-10 mm thickness



Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure:_____



K 209-5a (Sep, 5, 2001)

Described by J. Kimura

Sample Size : X= 12 cm, Y= 10 cm, Z= 7 cm; Weight: 1kg

Mn coating : 0 mm; Color (inside the rock): black

Alteration: no weak strong; Vesicularity 2 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock*Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

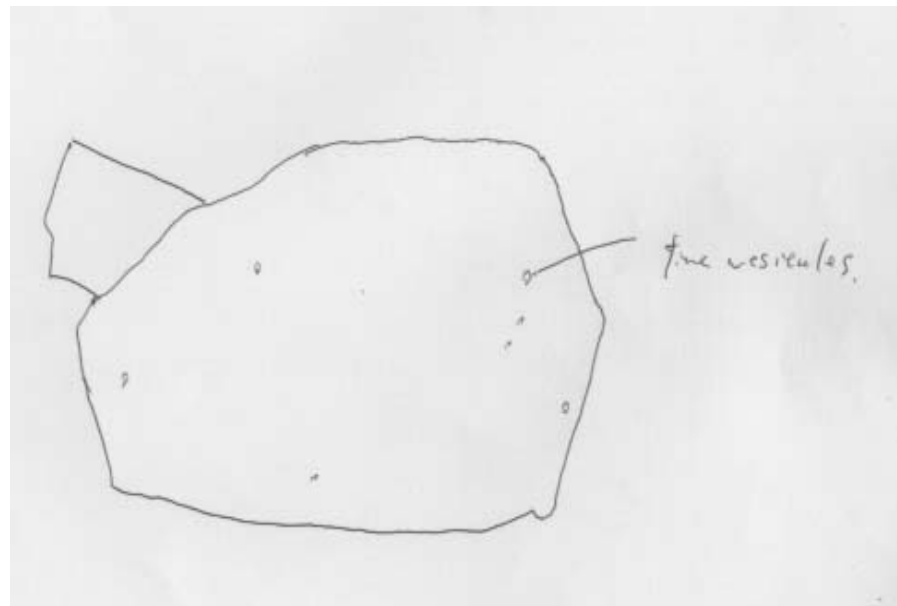
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 209-5b

(Sep, 5, 2001)

Described by T. Hanyu

Sample Size : X= 9 cm, Y= 7 cm, Z= 7 cm; **Weight:** 600g

Mn coating : 0 mm; **Color (inside the rock):** grey

Alteration: no* weak strong; **Vesicularity** 2 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt* Phenocrysts= ol: 0.5 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

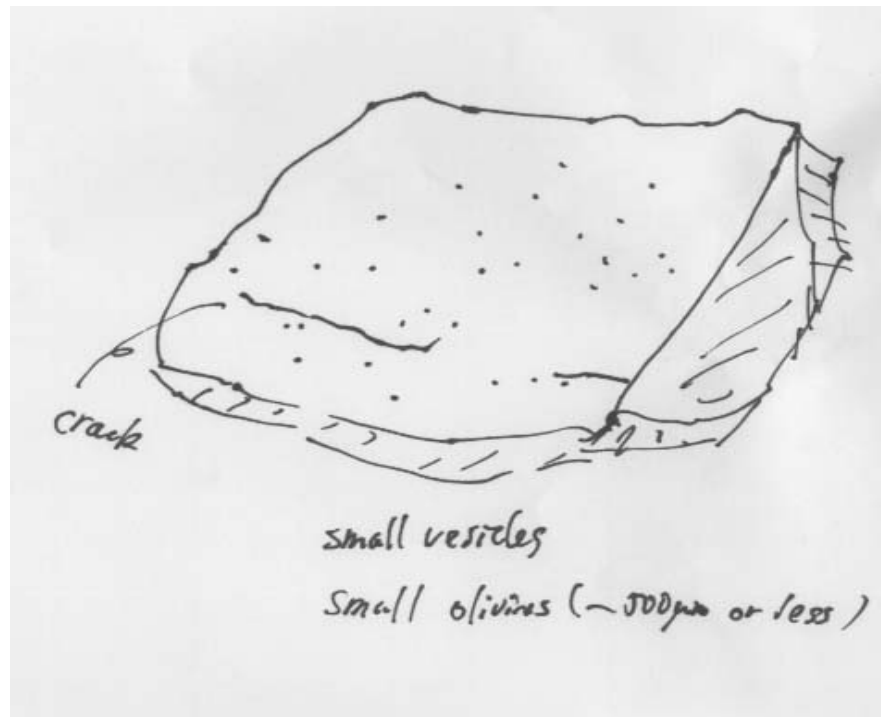
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 209-6a

(Sep, 5, 2001)

Described by T. Sisson

Sample Size : X= 9 cm, Y= 6 cm, Z= 6 cm; **Weight:** 200g

Mn coating : 0 mm; **Color (inside the rock):** _____

Alteration: no weak strong; **Vesicularity** <2 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 3 mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt* Phenocrysts= ol: 5 %, pl: 1 %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks _____ dense, no large vesicles , pl + cpx (?) in poly – crystalline
aggregaty _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 – 2 – 4 – 8 – 16 – 32 – 64 – 128 – 256 <

Sorting : well-----poorly

Roundness : round-----angular

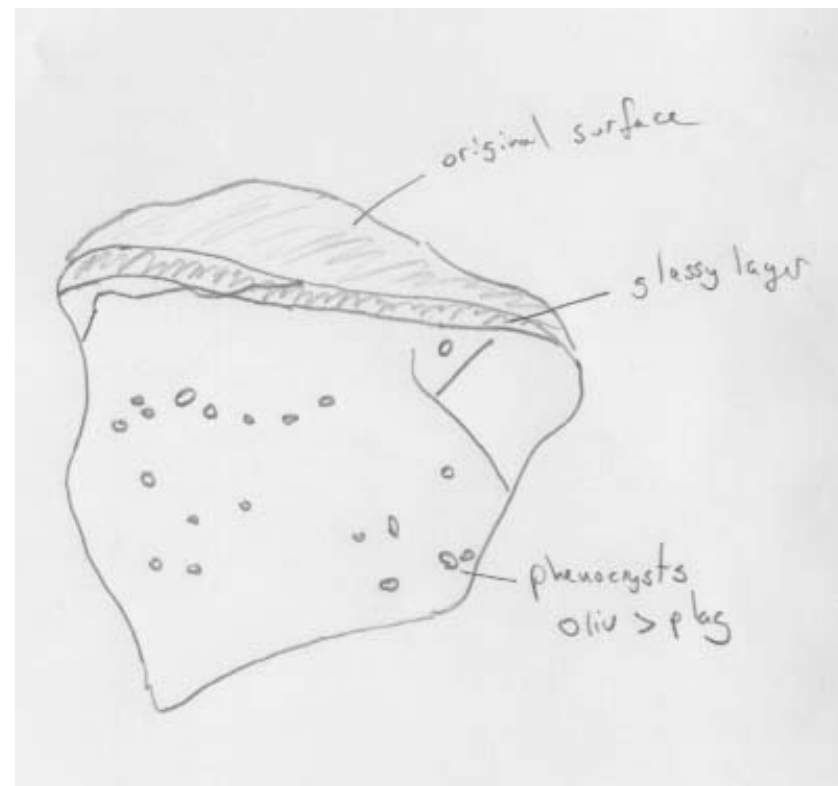
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 209-6b (Sep, 5, 2001)

Described by E. Takahashi

Sample Size : X= 8 cm, Y= 5 cm, Z= 5 cm; Weight: 100g

Mn coating : 0 mm; Color (inside the rock): black

Alteration: no* weak strong; Vesicularity 15 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 1-5 mm

Picrite:	Phenocrysts=		%,		%
Ol basalt*	Phenocrysts=	-10	%,		%
Pl-ol basalt	Phenocrysts=		%,		%
Aphyric rock	Phenocrysts=		%,		%
Others	Phenocrysts=		%,		%

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand paragonaite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: _____



K 209-7

(Sep, 5 , 2001)

Described by _____

Sample Size : X= cm, Y= cm, Z= cm; **Weight**: _____g

Mn coating : mm; **Color (inside the rock)**: _____

Alteration: no weak strong; **Vesicularity** _____ %

Lithology: monomict or polymict

Occurrence: lava hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass _____mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks _____sand_____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphritic B, picrite, others

Grain size (mm) : < 1 – 2 – 4 – 8 – 16 – 32 – 64 – 128 – 256 <

Sorting : well-----poorly

Roundness : round-----angular

Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or unlithified

Sedimentary structure: _____

K 209-8a (Sep, 5, 2001)

Described by P. Lipman

Sample Size : X= 8 cm, Y= 7 cm, Z= 5 cm; Weight: 200g

Mn coating : 0 mm; Color (inside the rock): black

Alteration: no* weak strong; Vesicularity 0 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 10 mm

Picrite*	Phenocrysts=	ol: 20 %,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

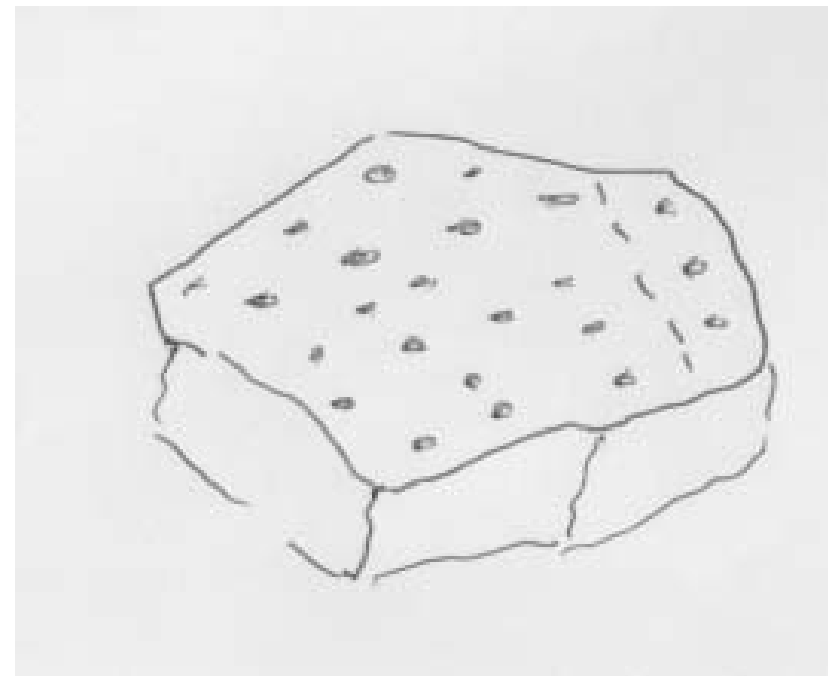
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or unlithified

Sedimentary structure: _____



K 209-8b (Sep, 5, 2001)

Described by T. Hanyu

Sample Size : X= 7 cm, Y= 6 cm, Z= 5 cm; **Weight**: 100g

Mn coating : 0 mm; **Color (inside the rock)**: black

Alteration: no weak* strong; **Vesicularity** 30 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite* Phenocrysts= ol: 10 %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks _____ Half of olivine are altered (in red)

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

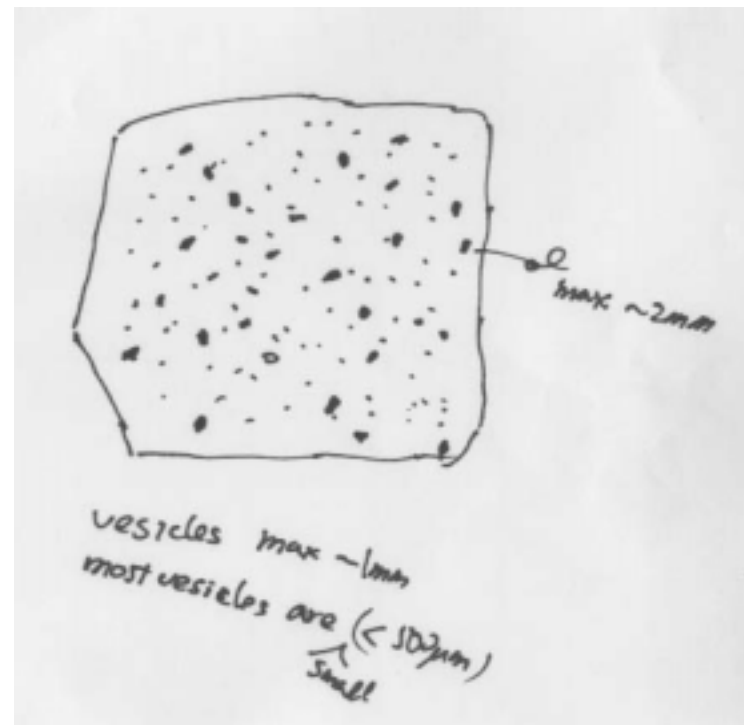
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 209-9a (Sep, 5, 2001)

Described by T. Kani

Sample Size : X= 23 cm, Y= 21 cm, Z= 19 cm; **Weight:** 5kg

Mn coating : 0 mm; **Color (inside the rock):** dark grey

Alteration: no* weak strong; **Vesicularity** 0 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

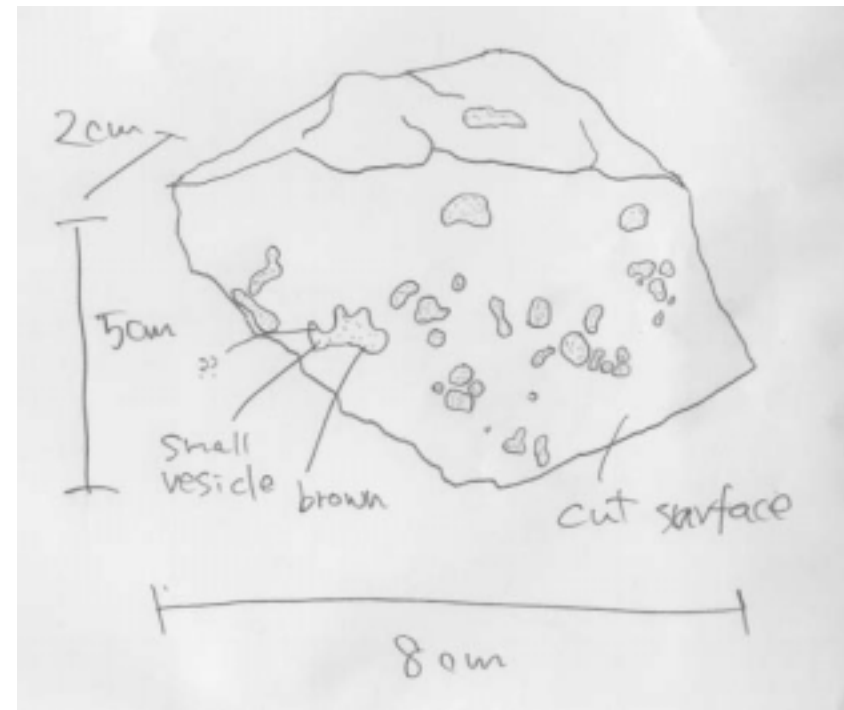
Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock*	Phenocrysts=	ol: <1 %,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphyritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand	paragonaite volcanic glass
	Lithified	or un lithified

Sedimentary structure: _____



K 209-9b (Sep, 5, 2001)

Described by T. Sisson

Sample Size : X= 19 cm, Y= 18 cm, Z= 13 cm; Weight: 4kg

Mn coating : mm; Color (inside the rock): _____

Alteration: no weak strong; Vesicularity _____ %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock*Phenocrysts= ol: <1 %, %

Others Phenocrysts= %, %

Remarks ___has porous, coarser crystallized patches that are altered to a tan color

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 209-10a (Sep, 5, 2001)

Described by T. Kani

Sample Size : X= 10 cm, Y= 9 cm, Z= 4 cm; Weight: 100g

Mn coating : 0 mm; Color (inside the rock): black

Alteration: no* weak strong; Vesicularity 40 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt* Phenocrysts= 15 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks _____

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

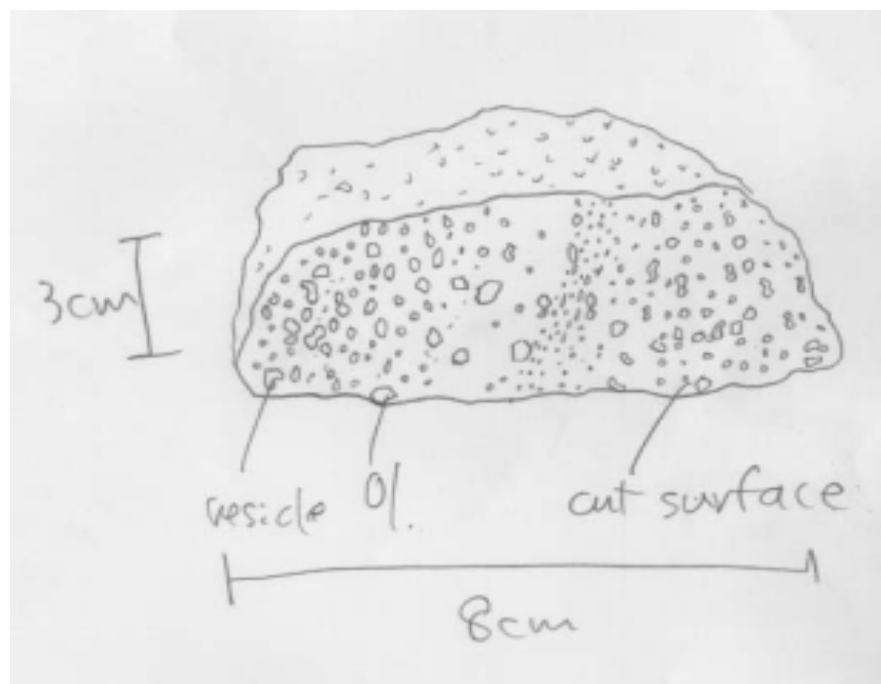
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or unlithified

Sedimentary structure: _____



K 209-10b (Sep, 5, 2001)

Described by T. Hanyu

Sample Size : X= 17 cm, Y= 13 cm, Z= 12 cm; **Weight**: 3kg
Mn coating : 0 mm; **Color (inside the rock)**: black slightly colored in red
Alteration: no weak * strong; **Vesicularity** 30 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

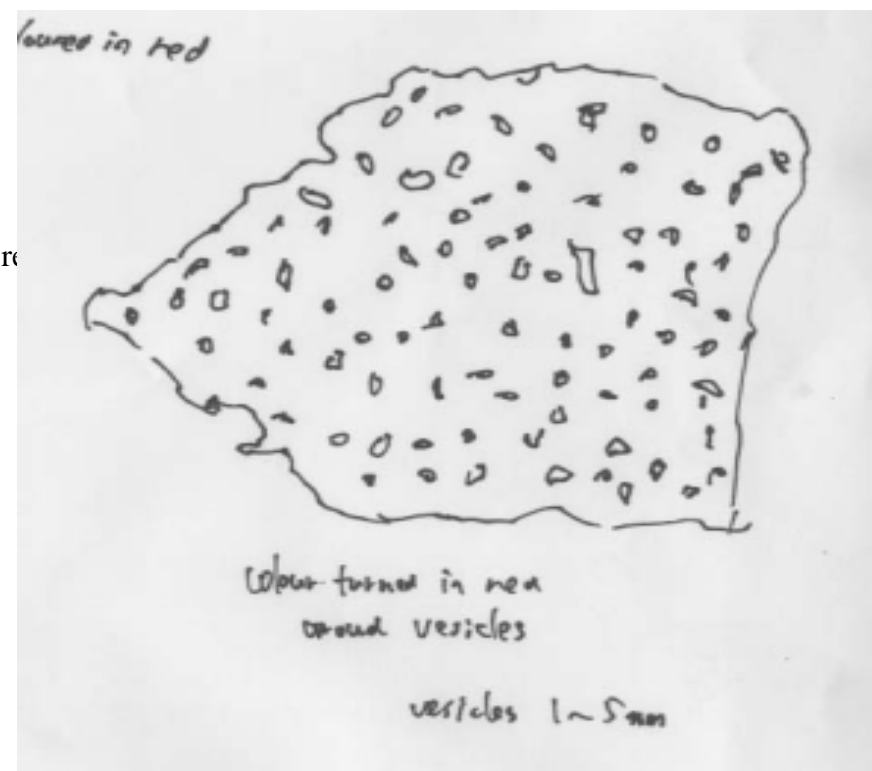
Picrite:	Phenocrysts=	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock*	Phenocrysts=	ol: <1 %,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand paragonaite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: _____



K 209-11 (Sep, 5, 2001)

Described by P. Lipman

Sample Size : X= 7 cm, Y= 7 cm, Z= 5 cm; **Weight:** 100g

Mn coating : mm; **Color (inside the rock):** black

Alteration: no* weak strong; **Vesicularity** 0 %

Lithology: monomict* or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt* Phenocrysts= 10 %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks___Evolved tholeiite; some Mn coating

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

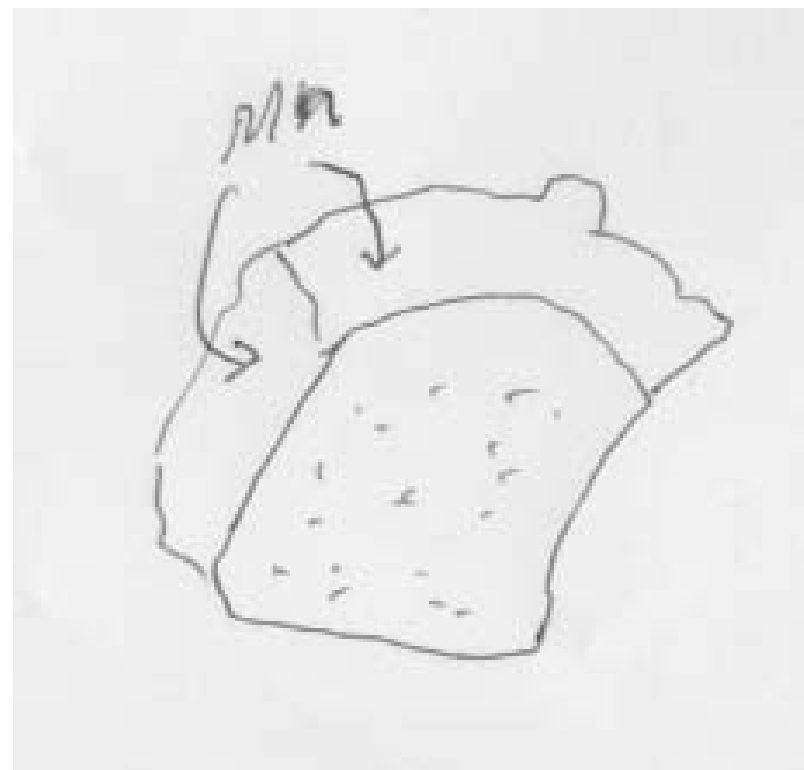
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or unlithified

Sedimentary structure:_____



K 209-12a (Sep, 5, 2001)

Described by H. Mashima

Sample Size : X= 15 cm, Y= 13 cm, Z= 10 cm; **Weight:** 1.8kg

Mn coating : 0 mm; **Color (inside the rock):** dark grey

Alteration: no weak* strong; **Vesicularity** 20 %

Lithology: monomict* or polymict

Occurrence: lava * hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt* Phenocrysts= 5 %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks well vesiculated

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

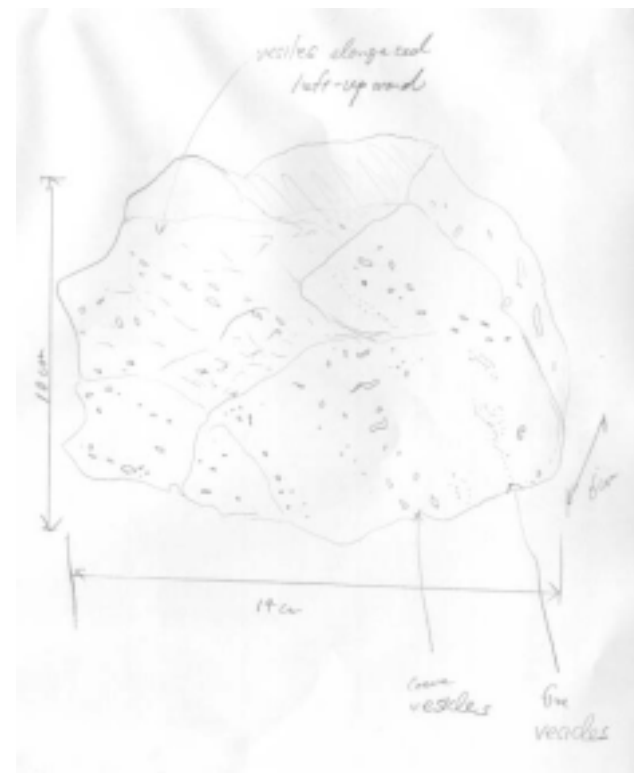
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 209-12b (Sep, 5, 2001)

Described by Y. Orihashi

Sample Size : X= 10 cm, Y= 9 cm, Z= 8 cm; Weight: 600g

Mn coating : 0 mm; Color (inside the rock): dark grey - black

Alteration: no* weak strong; Vesicularity 5-10 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass <5 mm

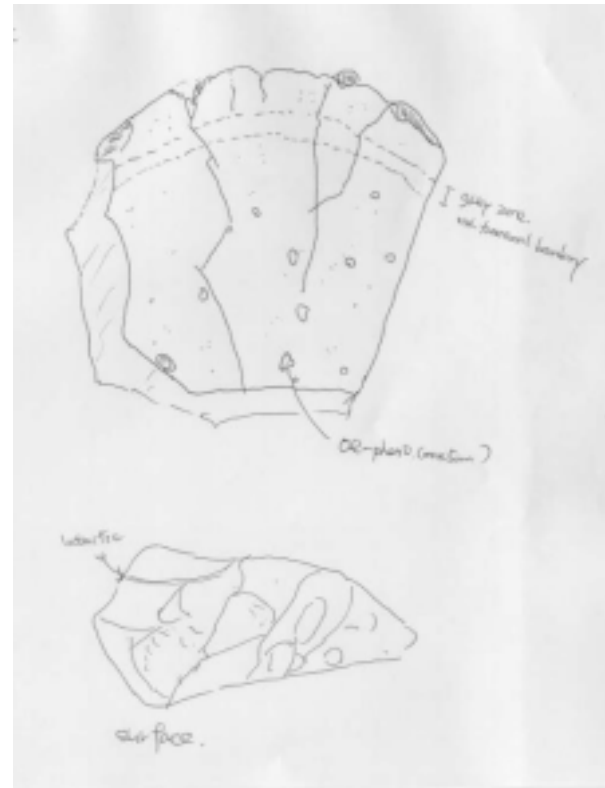
Picrite:	Phenocrysts=	%,	%
Ol basalt*	Phenocrysts=	ol: 3-5 %,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, porphritic B, picrite, others	
Grain size (mm) :	< 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <	
Sorting :	well-----	poorly
Roundness :	round-----	angular
Fabric:	clast-support -----	matrix support
Grading	normal-----	none-----reverse
Matri	silt sand paragonaite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: _____



K 209-12c (Sep, 5, 2001)

Described by T. Sisson

Sample Size : X= 8 cm, Y= 7 cm, Z= 3 cm; Weight: 80g

Mn coating : mm; Color (inside the rock):

Alteration: no weak strong; Vesicularity 30 %

Lithology: monomict or polymict

Occurrence: lava hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt* Phenocrysts= ol: -5 %, pl: -2 %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks Rounded, slightly reddish

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

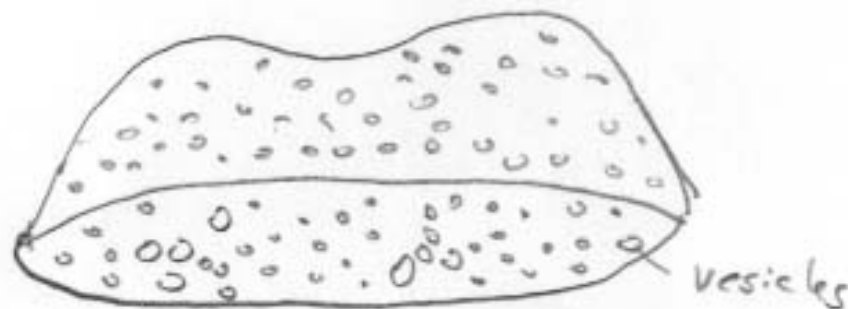
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or unlithified

Sedimentary structure:



K 209-13a (Sep, 5, 2001)

Described by J. Kimura

Sample Size : X= 9 cm, Y= 6 cm, Z= 5 cm; **Weight**: 100g

Mn coating : 0 mm; **Color (inside the rock)**: black

Alteration: no* weak strong; **Vesicularity** 5 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 1 mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock* Phenocrysts= ol: 1 %, %

Others Phenocrysts= %, %

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

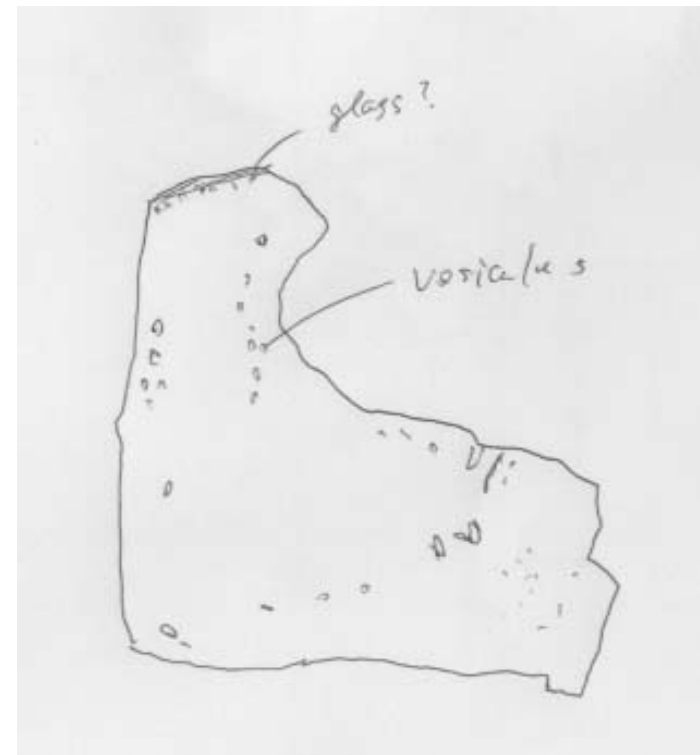
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 209-13b (Sep, 5, 2001)

Described by J. Kimura

Sample Size : X= 6 cm, Y= 6 cm, Z= 4 cm; **Weight**: 80g

Mn coating : 0 mm; **Color (inside the rock)**: black

Alteration: no* weak strong; **Vesicularity** 5 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanoclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock*Phenocrysts= ol: <1 %, %

Others Phenocrysts= %, %

Remarks _____

Volcanoclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

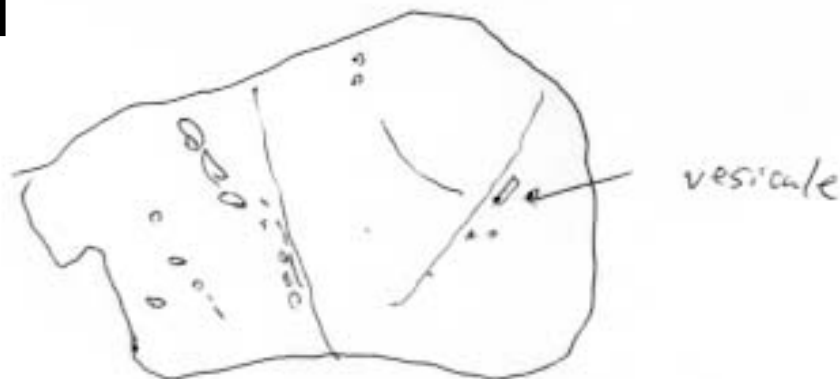
Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonaite volcanic glass

Lithified or un lithified

Sedimentary structure: _____



K 209-13c (Sep, 5, 2001)

Described by T. Sisson

Sample Size : X= 6 cm, Y= 5 cm, Z= 2 cm; Weight: 50g

Mn coating : mm; Color (inside the rock): _____

Alteration: no weak strong; Vesicularity 0 %

Lithology: monomict or polymict

Occurrence: lava* hyaloclastite volcanics others

Rock types (lava and hyaloclastite)

Thickness of glass 0 mm

Picrite: Phenocrysts= %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt* Phenocrysts= pl: 0.5 %, ol: 0.5 %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks small, dense fragment, nearly aphyric

Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly

Rock type: aphyric B, porphyritic B, picrite, others

Grain size (mm) : < 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 <

Sorting : well-----poorly

Roundness : round-----angular

Fabric: clast-support ----- matrix support

Grading normal-----none-----reverse

Matri silt sand paragonite volcanic glass

Lithified or unlithified

Sedimentary structure: _____

