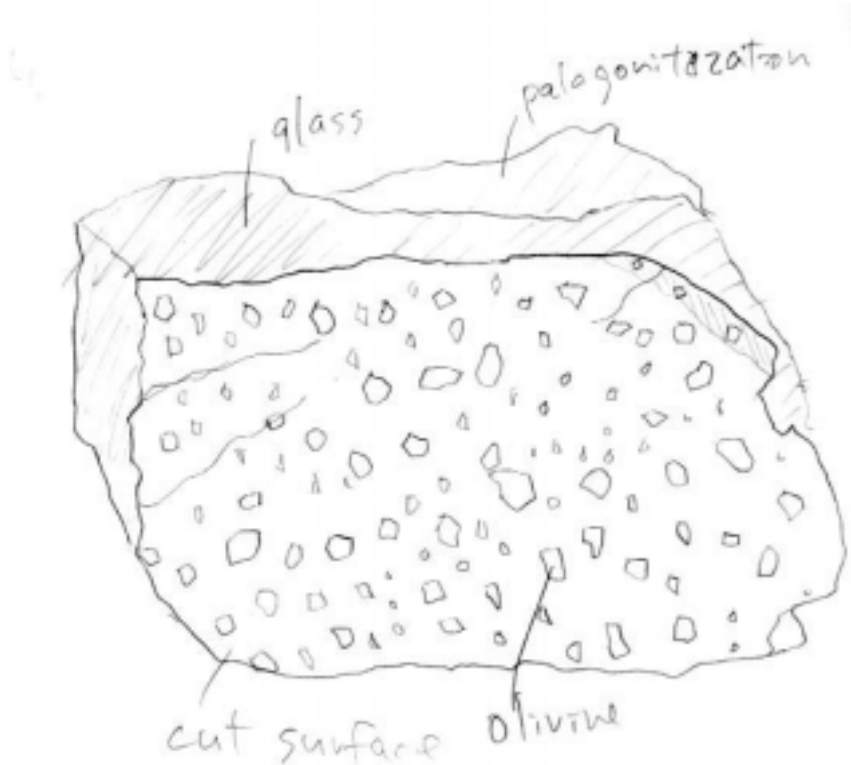
K 219- 1 (Sep. 18, 2001)
Described by T. Kani

Sample Size : X= 18 cm, Y= 15 cm, Z= 8 cm; **Weight**: 1.5kg
Mn coating : 0 mm; **Color (inside the rock)**: black
Alteration: no* weak strong; **Vesicularity** 1%
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass 4 mm
Picrite*: Phenocrysts= ol 25 %, %
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:_____
_____
_____



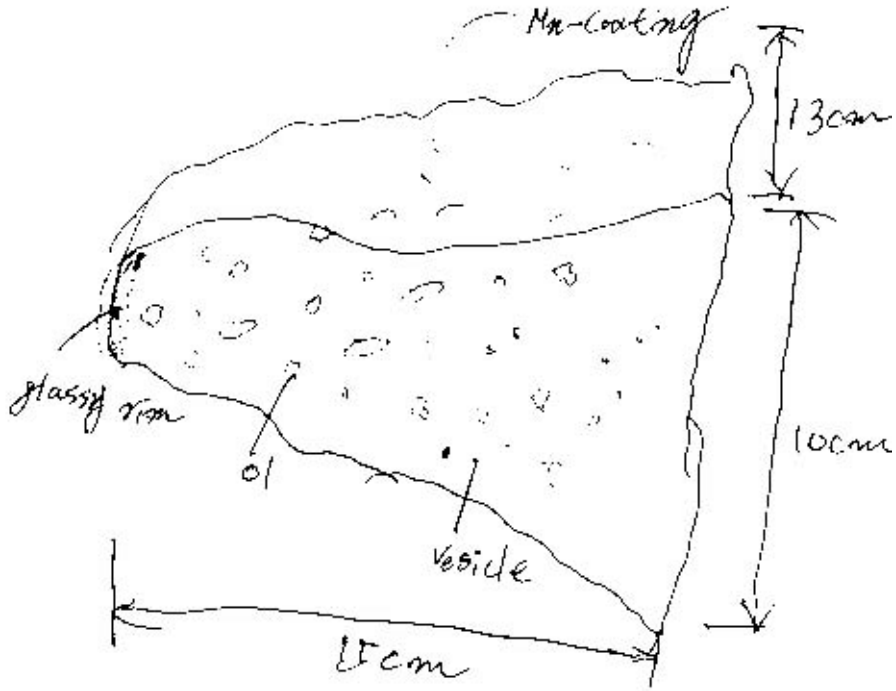
K 219- 2 (Sep. 18, 2001)
Described by Ren

Sample Size : X= 25 cm, Y= 14 cm, Z= 14 cm; **Weight**: 5kg
Mn coating : <0.5 mm; **Color (inside the rock)**: black
Alteration: no* weak* strong; **Vesicularity** 2 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass 22 mm

Picrite:	Phenocrysts=	%,	%
Ol basalt*	Phenocrysts= ol 7	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks_____
_____
_____
_____

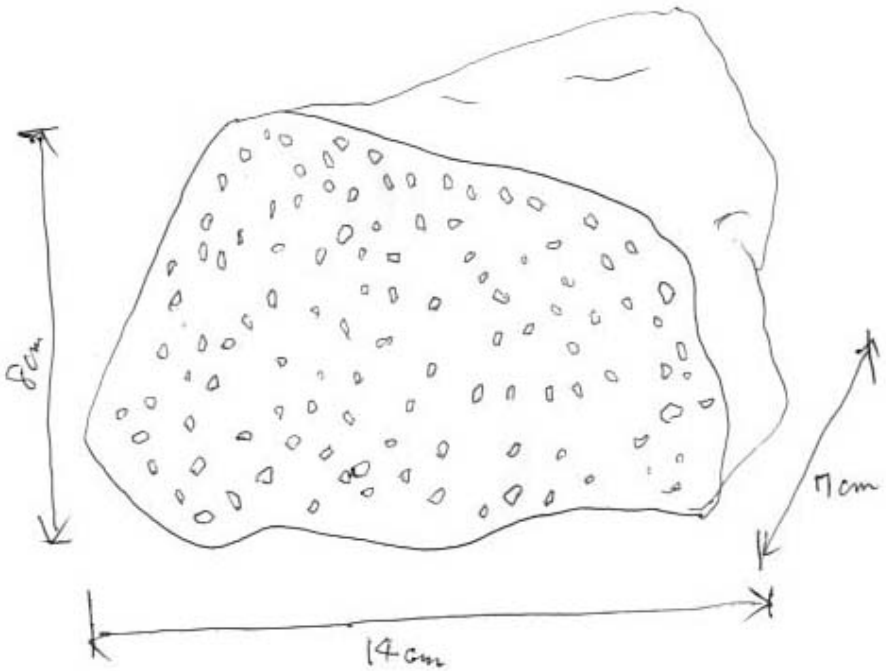


Volcaniclastic rocks and others (characteristic of the clasts)

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 219-3 (Sep. 18, 2001)
Described by Mashima



Sample Size : X= 14 cm, Y= 11 cm, Z= 9 cm; **Weight**: 800g
Mn coating : 0 mm; **Color (inside the rock)**: black
Alteration: no* weak strong; **Vesicularity** 3%
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

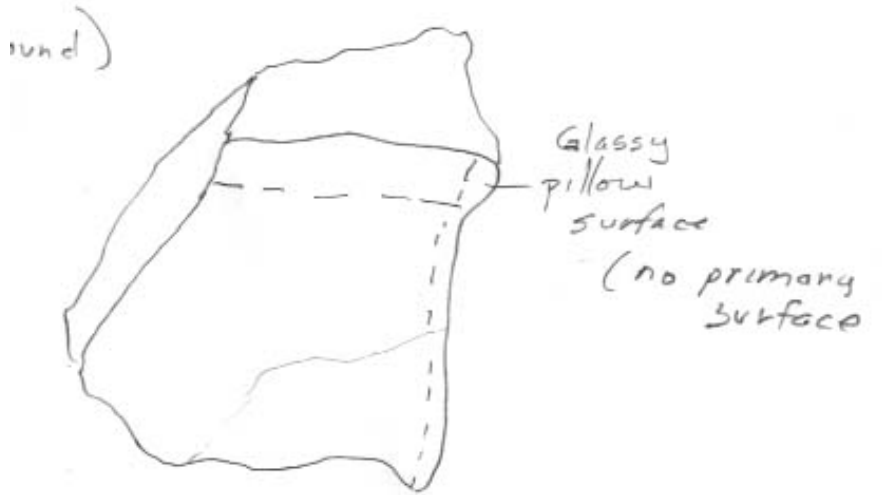
Rock types (lava and hyaloclastite)

Thickness of glass _____mm
Picrite*: Phenocrysts= ol 25 %, %
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 219- 4a (Sep. 18, 2001)
Described by Lipman



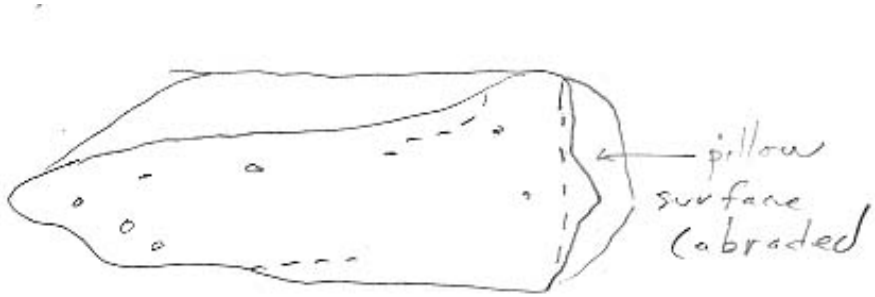
Sample Size : X= 16 cm, Y= 15 cm, Z= 13 cm; **Weight**: 1.5kg
Mn coating : mm; **Color (inside the rock)**: dark gray
Alteration: no * weak strong; **Vesicularity** 5%
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass 3-5 mm
Picrite: Phenocrysts= ol 25 %, %
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 219- 4b (Sep. 18, 2001)
Described by Lipman

Sample Size : X= 13 cm, Y= 8 cm, Z= 5 cm; **Weight**: 200g
Mn coating : mm; **Color (inside the rock)**: dark gray
Alteration: no* weak strong; **Vesicularity** 3-5 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others



Rock types (lava and hyaloclastite)
Thickness of glass 1-2 mm ?
Picrite: Phenocrysts= %, %
Ol basalt Phenocrysts= ol 15 %, %
Pl-ol basalt Phenocrysts= %, %
Aphyric rock Phenocrysts= %, %
Others Phenocrysts= %, %
Remarks Pillow fragment

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:_____
_____
_____

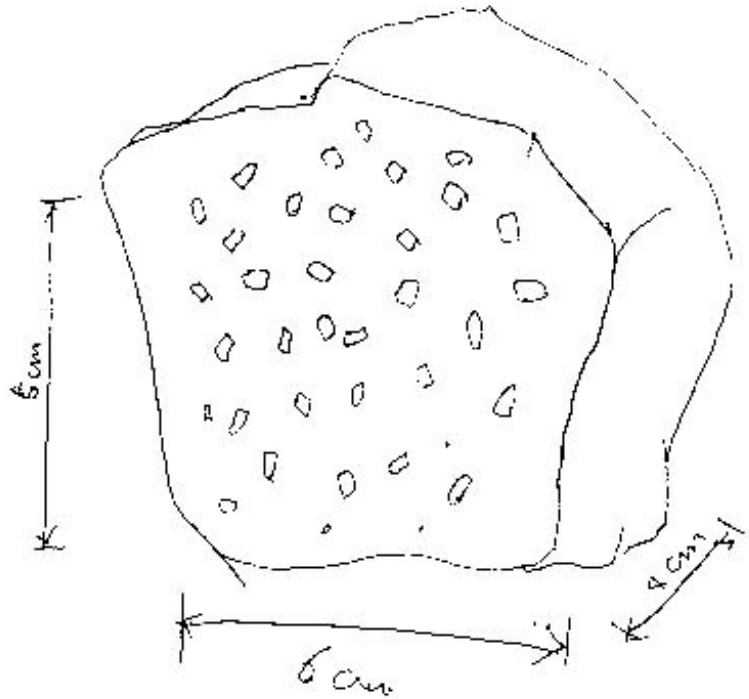
K 219- 5 (Sep. 18, 2001)
Described by M. Maruyama

Sample Size : X= 10 cm, Y= 8 cm, Z= 4 cm; **Weight**: 150g X2
Mn coating : 0 mm; **Color (inside the rock)**: Black
Alteration: no * weak strong; **Vesicularity** 10 %
Lithology: monomict* or polymict
Occurrence: lava * hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass 12 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 219- 6 (Sep. 18, 2001)
Described by H. Mashima



Sample Size : X= 9 cm, Y= 7 cm, Z= 6 cm; **Weight**: 150g X2
Mn coating : 0 mm; **Color (inside the rock)**:Black
Alteration: no * weak strong; **Vesicularity** _____ %
Lithology: monomict * or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass 0 mm

Picrite*:	Phenocrysts=	15-20	%,	%
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

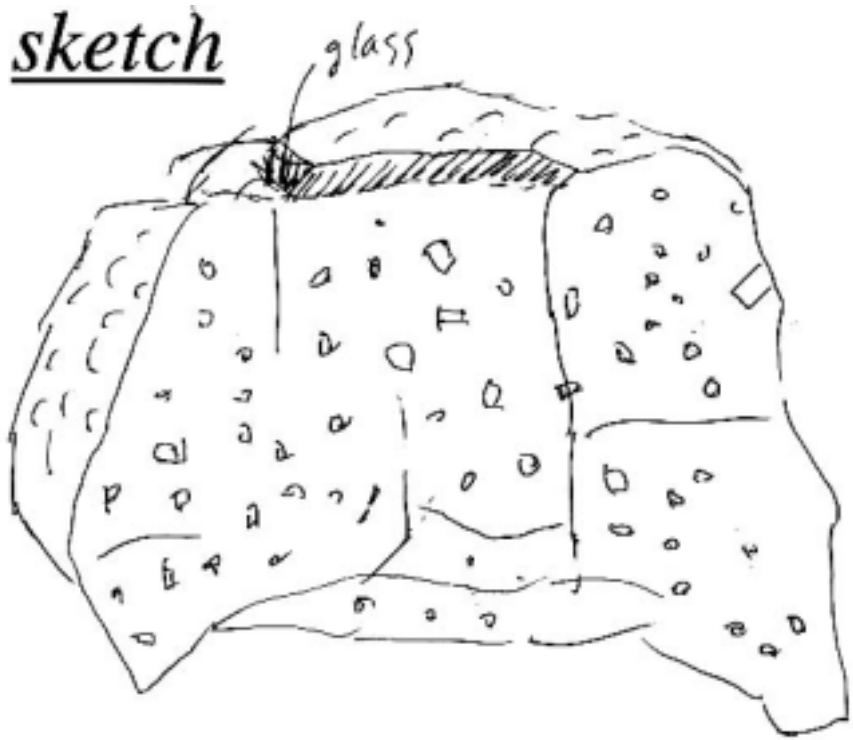
Sedimentary structure:_____

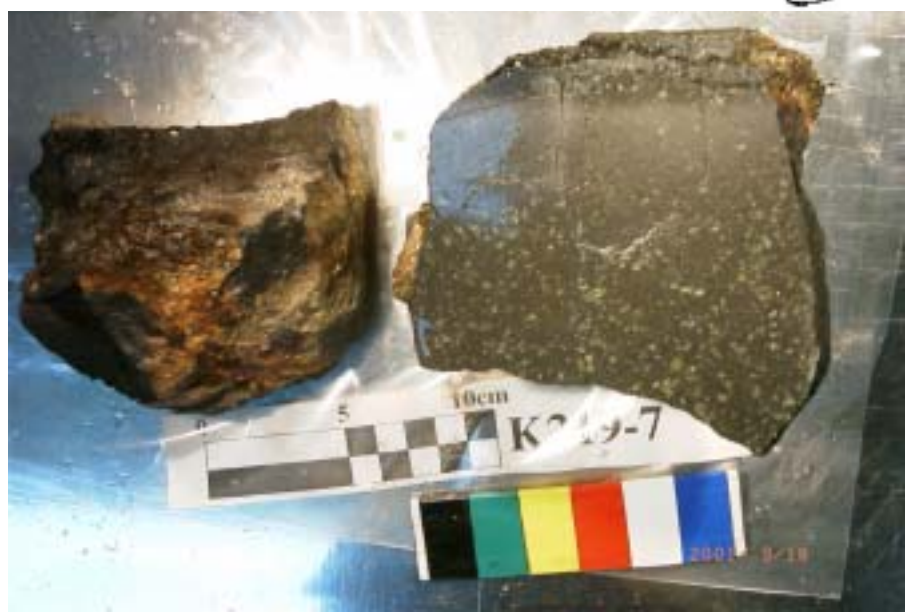
K 219- 7 (Sep. 18, 2001)
Described by T. Hanyu

Sample Size : X= 17 cm, Y= 13 cm, Z= 12 cm; **Weight**: 6kg
Mn coating : <0.5 mm; **Color (inside the rock)**:dark grey
Alteration: no weak * strong; **Vesicularity** 2 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

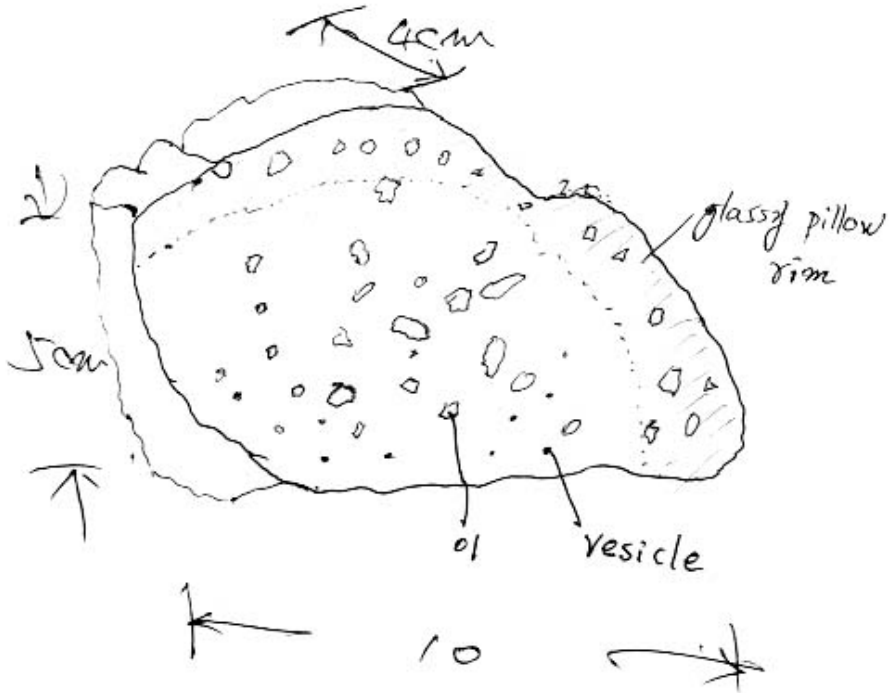
Rock types (lava and hyaloclastite)
Thickness of glass Max 5 mm
Picrite: Phenocrysts= %, %
Ol basalt* Phenocrysts= ol 15-20 %, %
Pl-ol basalt Phenocrysts= %, %
Aphyric rock Phenocrysts= %, %
Others Phenocrysts= %, %
Remarks_____
_____
_____
_____

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 219- 8 (Sep. 18, 2001)
Described by Ren

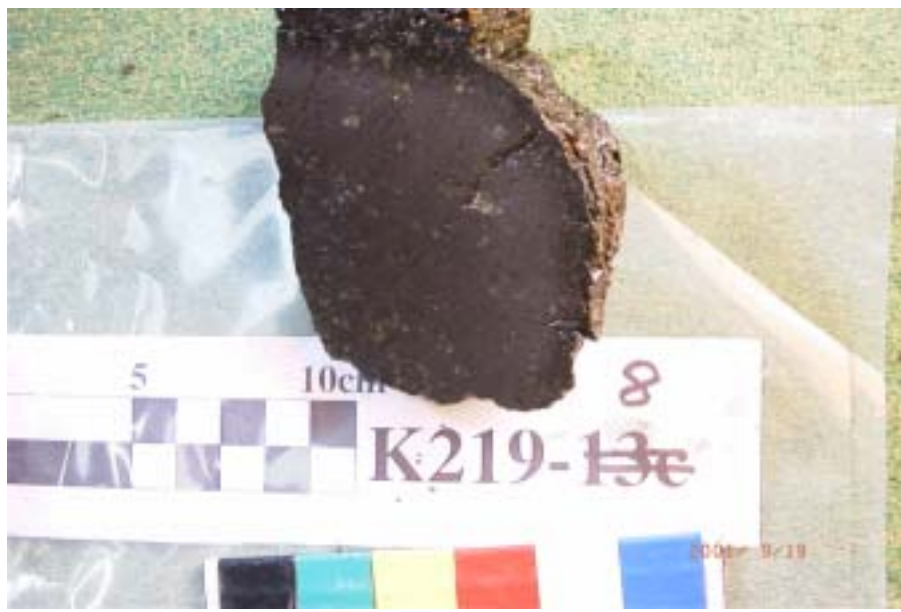


Sample Size : X= 10 cm, Y= 7 cm, Z= 6 cm; **Weight**: 400g
Mn coating : <0.5 mm; **Color (inside the rock)**:black
Alteration: no * weak strong; **Vesicularity** 3 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass 210 mm

Picrite:	Phenocrysts=	%,	%
Ol basalt*	Phenocrysts= ol 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, 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

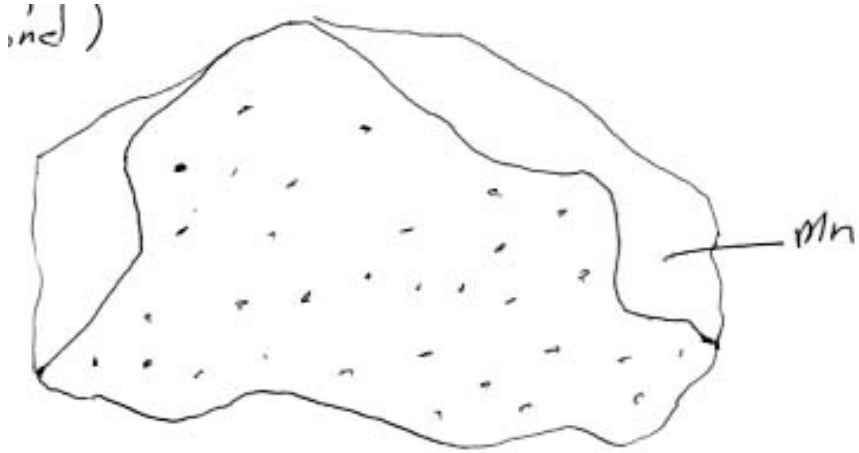
Sedimentary structure:_____
_____
_____

K 219- 9 (Sep. 18, 2001)
Described by Lipman

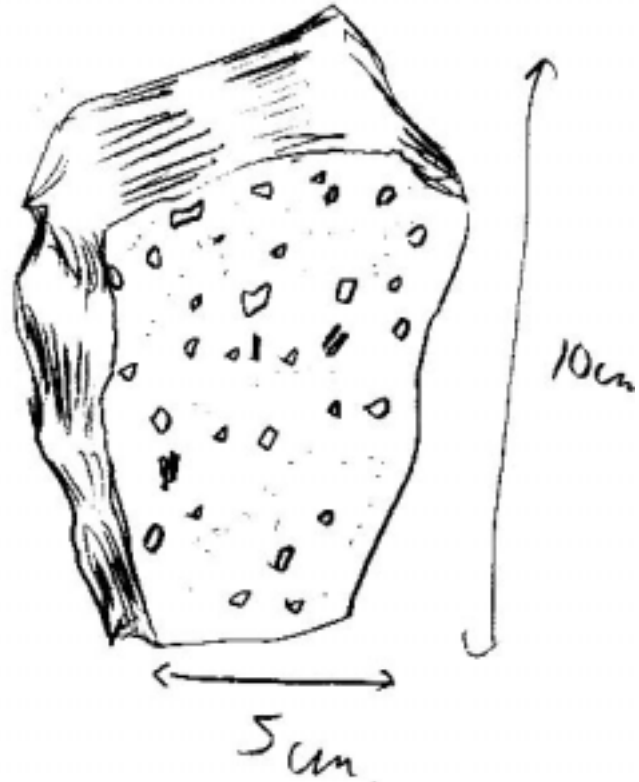
Sample Size : X= 13 cm, Y= 12 cm, Z= 10 cm; **Weight**: 1kg
Mn coating : mm; **Color (inside the rock)**: dark gray
Alteration: no * weak strong; **Vesicularity** 5 %
Lithology: monomict* or polymict
Occurrence: lava * hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass None preserved
Picrite*: Phenocrysts= ol 15-20 %, %
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 219- 10 (Sep. 18, 2001)
Described by M. Maruyama



Sample Size : X= 14 cm, Y= 10 cm, Z= 5 cm; **Weight**: 700g
Mn coating : 0 mm; **Color (inside the rock)**: Black
Alteration: no* weak strong; **Vesicularity** 3 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass 0 mm

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

Remarks Needle-like shaped olivine phenocrysts (microphenocrysts?) are included.

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

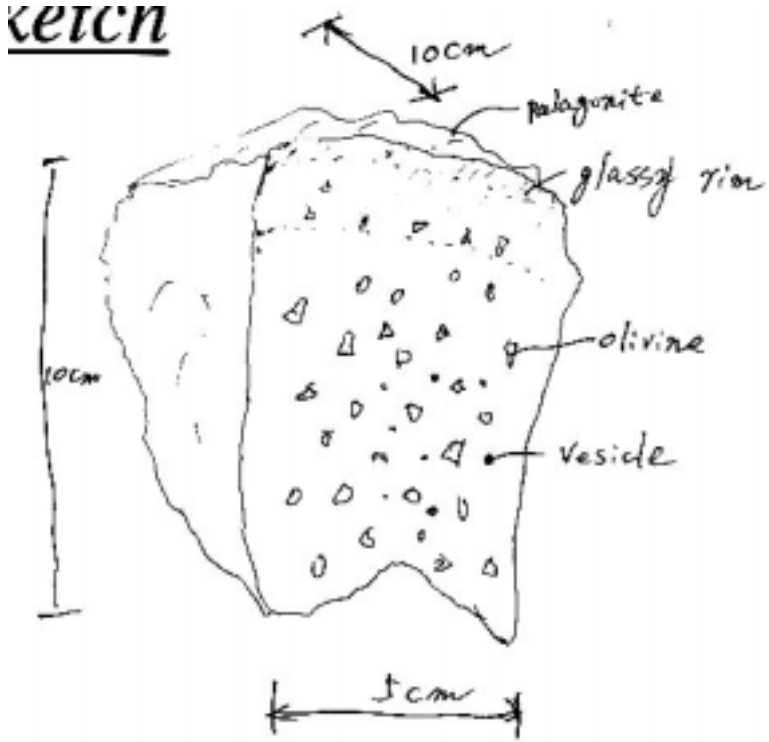
Sedimentary structure:_____
_____
_____

K 219- 11 (Sep. 18, 2001)
Described by Ren

Sample Size : X= 17 cm, Y= 11 cm, Z= 8 cm; **Weight**: 1.5kg
Mn coating : 0 mm; **Color (inside the rock)**: black
Alteration: no* weak strong; **Vesicularity** 3 %
Lithology: monomict* or polymict
Occurrence: lava * hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass _____mm
Picrite: Phenocrysts= %, %
Ol basalt* Phenocrysts= ol 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, 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:_____
_____
_____



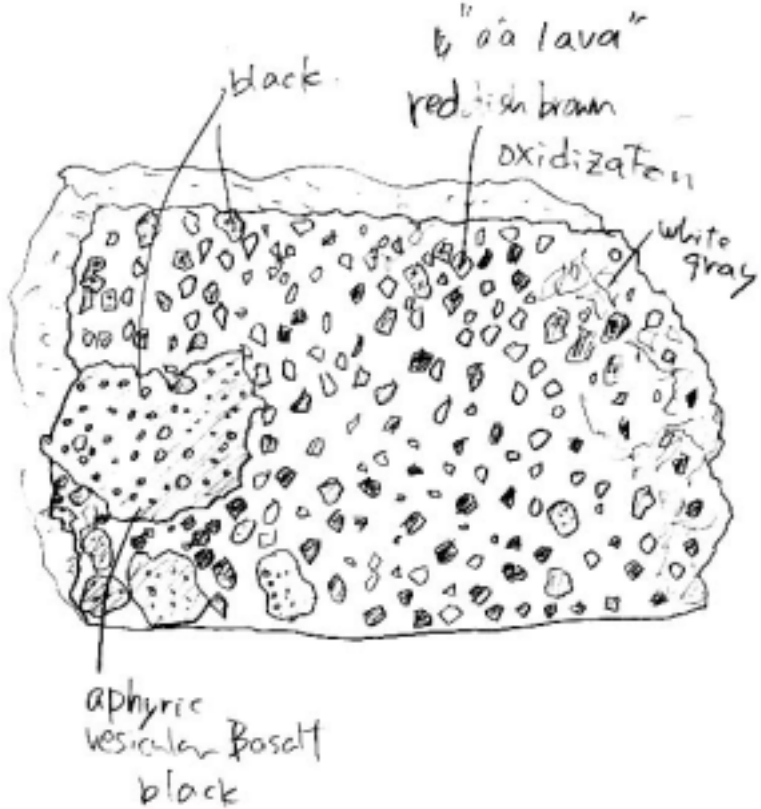
K 219- 12 (Sep. 18, 2001)
Described by H. Mashima

Sample Size : X= 17 cm, Y= 17 cm, Z= 15 cm; **Weight**: 5kg
Mn coating : 0 mm; **Color (inside the rock)**:_____
Alteration: no * weak strong; **Vesicularity** 3 %
Lithology: monomic * or polymic
Occurrence: lava * hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass _____mm
Picrite: Phenocrysts= %, %
Ol basalt* Phenocrysts= ol 10-15 %, %
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, 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 219- 13a (Sep. 18, 2001)
Described by T. Kani



Sample Size : X= 36 cm, Y= 23 cm, Z= 22 cm; **Weight**: 15 kg
Mn coating : 0 mm; **Color (inside the rock)**:_____
Alteration: no weak strong*; **Vesicularity** _____ %
Lithology: monomict* or polymict
Occurrence: lava hyaloclastite* volcaniclastics 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_____
_____
_____
_____

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 none*
	Lithified or unlithified

Sedimentary structure: Oxidized a'a lava like reddish brown aphylic basalt fragments. Some black vesicular basalt fragments partly grayish white. Volcanic breccia.

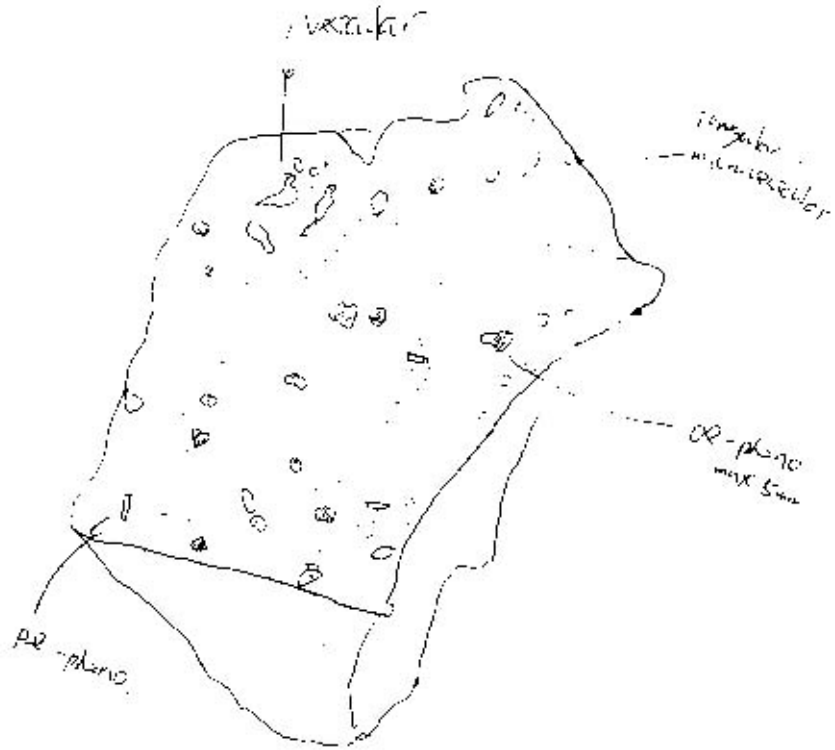
K 219- 13b (Sep. 18, 2001)
Described by E. Takahashi

Sample Size : X= 17 cm, Y= 13 cm, Z= 12 cm; **Weight**: 1.5 kg
Mn coating : mm; **Color (inside the rock)**:_____
Alteration: no weak strong; **Vesicularity** _____ %
Lithology: monomict or polymict
Occurrence: lava hyaloclastite volcaniclastics 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_____
_____
_____
_____

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-suppor*t ---------- matrix support
Grading normal----------none*----------reverse
Matri silt sand paragonaite volcanic glass
Lithified or unlithified none*
Sedimentary structure: Volcanic breccia monomictic probably oxidized under air and also quenched in water.

K 219- 13c (Sep. 18, 2001)
Described by Y. Orihashi



Sample Size : X= 12 cm, Y= 11 cm, Z= 10 cm; **Weight**: 700 g
Mn coating : 0 mm; **Color (inside the rock)**:dark grey
Alteration: no* weak strong; **Vesicularity** <3 %
Lithology: monomict* or polymict
Occurrence: lava * hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)

Thickness of glass _____mm

Picrite:	Phenocrysts=		%,		%
Ol basalt	Phenocrysts=		%,		%
Pl-ol basalt*	Phenocrysts=	ol 3-5	%,	pl <0,5	%
Aphyric rock	Phenocrysts=		%,		%
Others	Phenocrysts=		%,		%

Remarks Reary plagioclase as microcrystal

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:_____
_____
_____