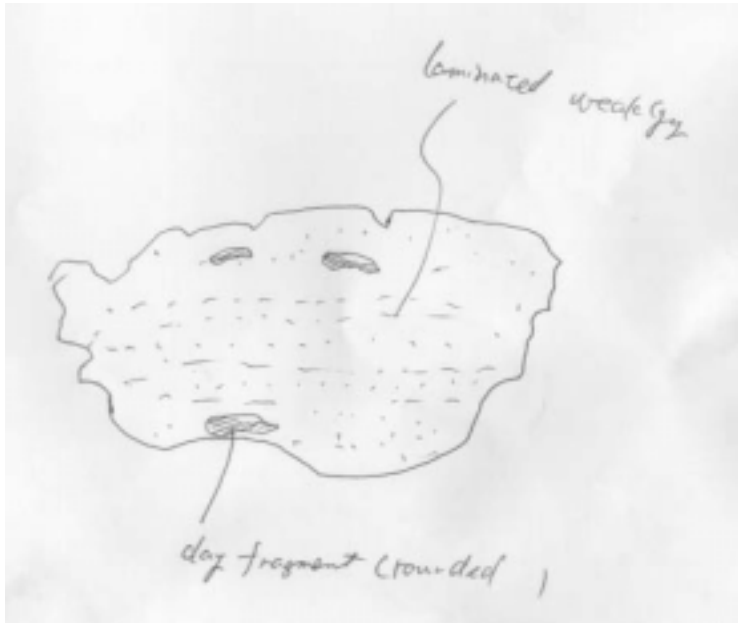
K 212-1a (Sep. 9 , 2001)
Described by J. Kimura



Sample Size : X= 12 cm, Y= 10 cm, Z= 5 cm; **Weight**: 100g
Mn coating : 0.1 mm; **Color (inside the rock)**: brown
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_____
_____
_____
_____

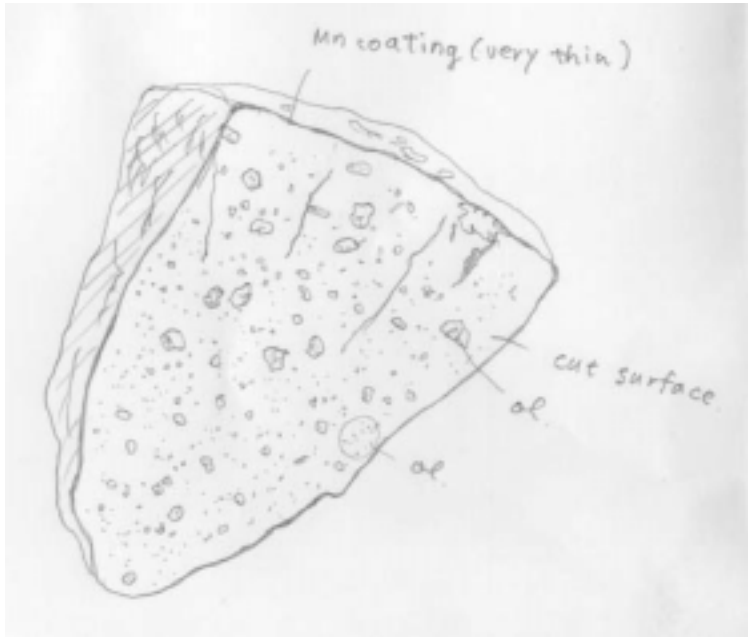
Volcaniclastic rocks and others (characteristic of the clasts)
Fragments comp.: mono* poly
Rock type: aphyric B, porphritic B, picrite, others
Grain size (mm) : * < 1 – 2* – 4 – 8 – 16 – 32 – 64 – 128 – 256 <
Sorting : well*----------poorly
Roundness : round----------angula*r
Fabric: clast-support ---------- matrix support
Grading normal----------none*----------reverse
Matri silt* sand * paragonaite volcanic glass
Lithified or unlithified
Sedimentary structure:_____laminated weakly _____
_____
_____

K 212-1b (Sep. 9 , 2001)
Described by N. Noguchi

Sample Size : X= 12 cm, Y= 10 cm, Z= 7 cm; **Weight**: 500g
Mn coating : <1 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 _____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:_____
_____
_____



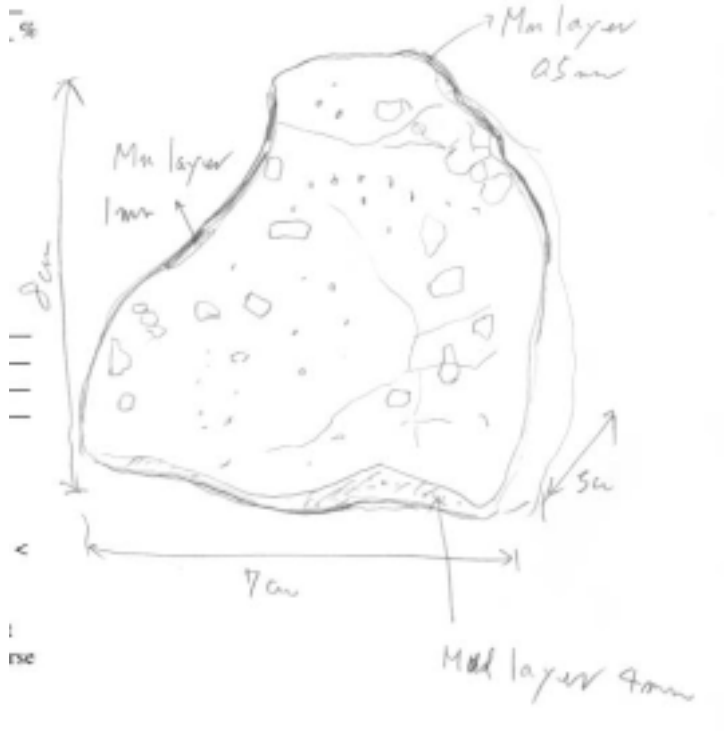
K 212-2a (Sep. 9 , 2001)
Described by M. Coombs

Sample Size : X= 13 cm, Y= 12 cm, Z= 11 cm; **Weight**: 1kg
Mn coating : <1 mm; **Color (inside the rock)**: grey
Alteration: no weak* strong; **Vesicularity** _____ %
Lithology: monomict or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass <1 mm
Picrite* Phenocrysts= ol: 20-25 %, %
Ol basalt Phenocrysts= %, %
Pl-ol basalt Phenocrysts= %, %
Aphyric rock Phenocrysts= %, %
Others Phenocrysts= %, %
Remarks___pillow fragmet w/ mud, entire thing coated w/ MnO
_____
_____
_____
_____

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 212-2b (Sep. 9 , 2001)
Described by H. Mashima



Sample Size : X= 12 cm, Y= 9 cm, Z= 8 cm; **Weight**: 600g
Mn coating : 0.5-1 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=		%,	%
Ol basalt	Phenocrysts=	20-25	%,	%
Pl-ol basalt	Phenocrysts=		%,	%
Aphyric rock	Phenocrysts=		%,	%
Others	Phenocrysts=		%,	%

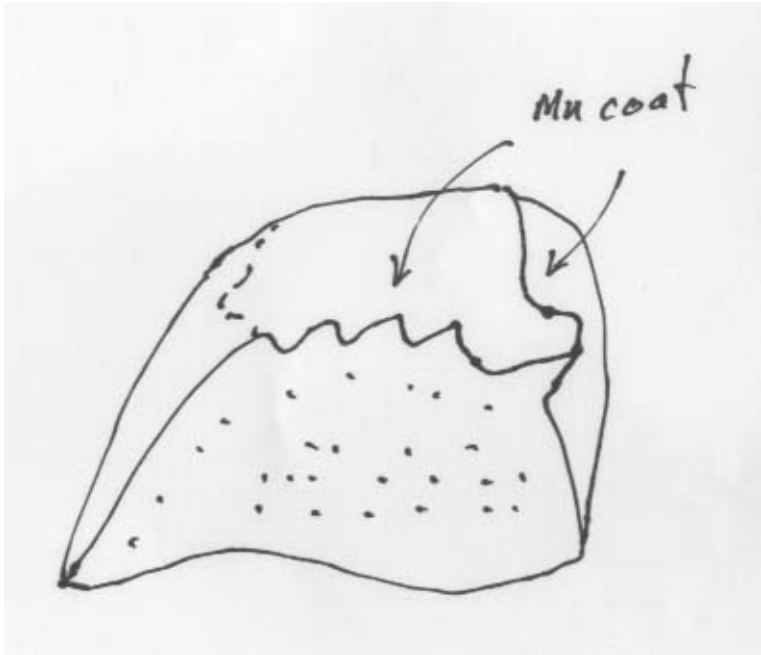
Remarks____Mud layer observed between lava and Mn layer _____
_____

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 212-2c (Sep. 9 , 2001)
Described by P. Lipman



Sample Size : X= 13 cm, Y= 10 cm, Z= 7 cm; **Weight**: 100g
Mn coating : 0.5 mm; **Color (inside the rock)**: brown
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
Lithified or unlithified
Sedimentary structure:____faint crude bedding
_____
_____

K 212-3a (Sep. 9 , 2001)
Described by H. Mashima

Sample Size : X= 27 cm, Y= 16 cm, Z= 14 cm; **Weight**: 4kg
Mn coating : 0.3 mm; **Color (inside the rock)**: black
Alteration: no* weak strong; **Vesicularity** 25 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

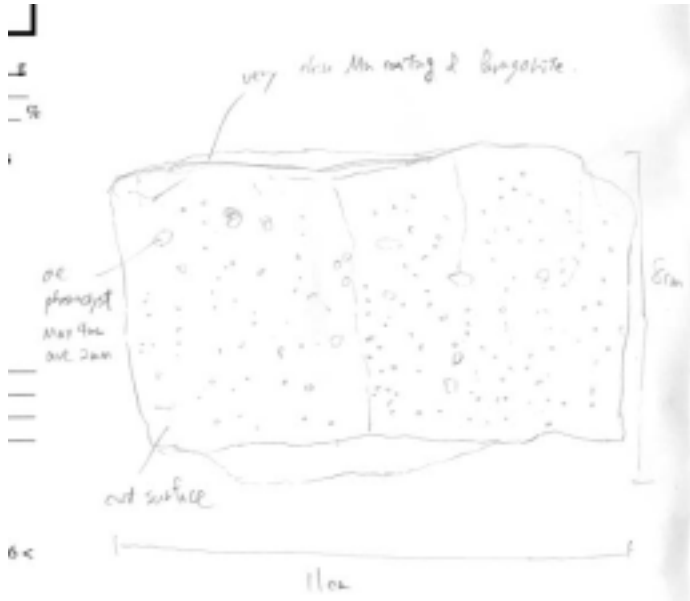
Rock types (lava and hyaloclastite)

Thickness of glass _____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, 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 212-3b (Sep. 9 , 2001)
Described by T. Kunikiyo



Sample Size : X= 17 cm, Y= 17 cm, Z= 12 cm; **Weight**: 4kg
Mn coating : <1 mm; **Color (inside the rock)**: dark grey
Alteration: no* weak strong; **Vesicularity** 6 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

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

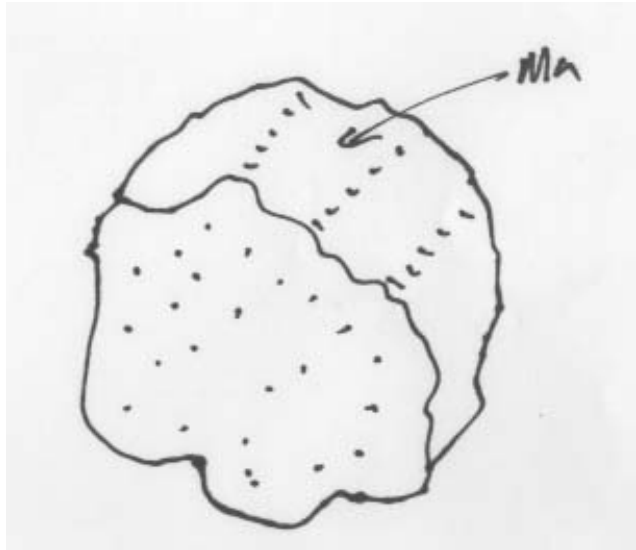
K 212-4 (Sep. 9 , 2001)
Described by T. Kani

Sample Size : X= 21 cm, Y= 17 cm, Z= 12 cm; **Weight**: 3kg
Mn coating : 0.2 mm; **Color (inside the rock)**: dark black
Alteration: no* *weak strong; **Vesicularity** <1 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass thin mm
Picrite: Phenocrysts= %, %
Ol basalt* Phenocrysts= ol: 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 212-5 (Sep. 9 , 2001)
Described by P. Lipman

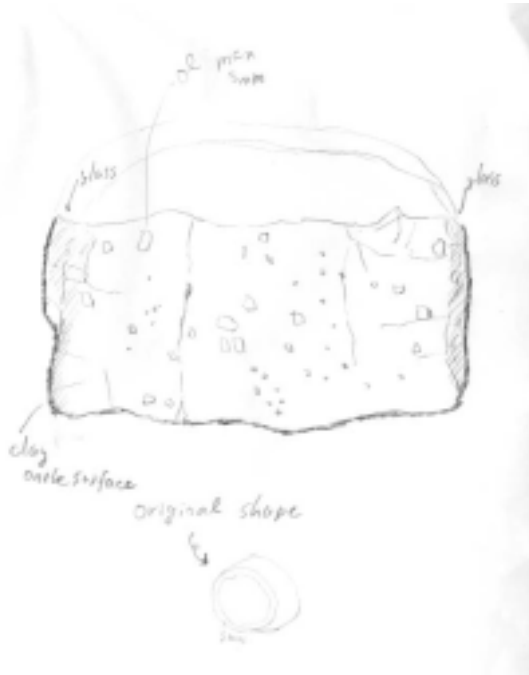


Sample Size : X= 11 cm, Y= 7 cm, Z= 6 cm; **Weight**: 100g
Mn coating : -1 mm; **Color (inside the rock)**: brown
Alteration: no* weak strong; **Vesicularity** _____ %
Lithology: monomict or polymict*
Occurrence: lava hyaloclastite volcaniclastics* others

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
Lithified* or unlithified
Sedimentary structure:_____
_____
_____

K 212-6a (Sep. 9 , 2001)
Described by T.Hanyu

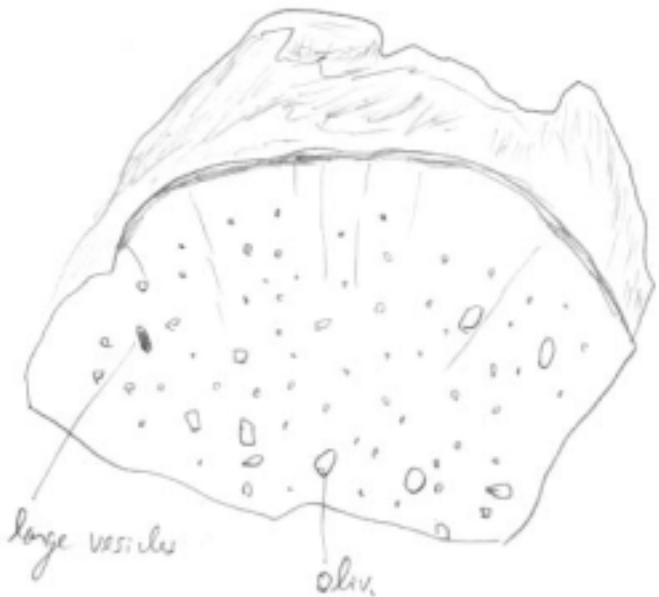


Sample Size : X= 10 cm, Y= 9 cm, Z= 7 cm; **Weight**: 600g
Mn coating : <0.5 mm; **Color (inside the rock)**: gray
Alteration: no* weak strong; **Vesicularity** <1 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass <5 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 212-6b (Sep. 9 , 2001)
Described by E. Takahashi

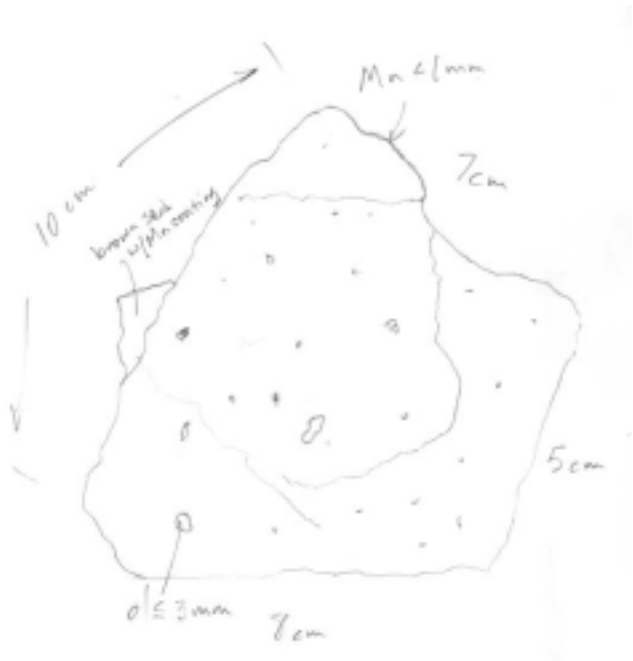


Sample Size : X= 20 cm, Y= 19 cm, Z= 15 cm; **Weight**: 3kg
Mn coating : <0.5 mm; **Color (inside the rock)**: dark gray
Alteration: no * * weak strong; **Vesicularity** <0.1 %
Lithology: monomict or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass up to 2 mm
Picrite: Phenocrysts= %, %
Ol basalt* Phenocrysts= ol: 15 %, %
Pl-ol basalt Phenocrysts= %, %
Aphyric rock Phenocrysts= %, %
Others Phenocrysts= %, %
Remarks___Dense pillow lava , with altered glassiy rim . Vesicles less than 0.1% _____
_____
_____

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 212-7a (Sep. 9 , 2001)
Described by K. Johnson



Sample Size : X= 15 cm, Y= 12 cm, Z= 11 cm; **Weight**: 1kg
Mn coating : <0.2 mm; **Color (inside the rock)**: dark grey
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= pl: 5 %, ol: 5 %
Aphyric rock Phenocrysts= %, %
Others Phenocrysts= %, %
Remarks_____Dense angular pillow lava 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:_____
_____
_____

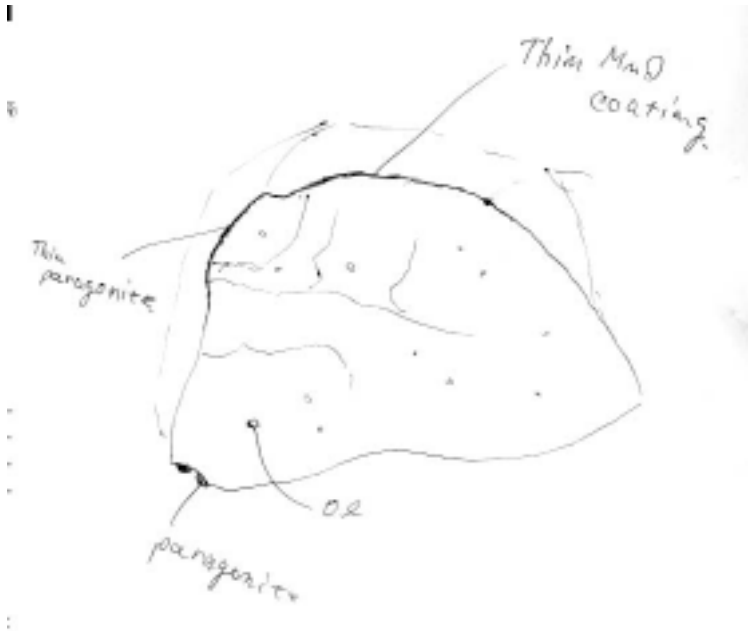
K 212-7b (Sep. 9 , 2001)
Described by K. Johnson

Sample Size : X= 8 cm, Y= 5 cm, Z= 4 cm; **Weight**: 0.2g
Mn coating : -1 mm; **Color (inside the rock)**: dark grey
Alteration: no weak * strong; **Vesicularity** 0 %
Lithology: monomict or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass 0 mm
Picrite: Phenocrysts= ol: 20 %, pl: 10 %
Ol basalt Phenocrysts= %, %
Pl-ol basalt Phenocrysts= %, %
Aphyric rock Phenocrysts= %, %
Others Phenocrysts= %, %
Remarks_____angular 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 212- 8 (Sep. 9 , 2001)
Described by M. Nakagawa

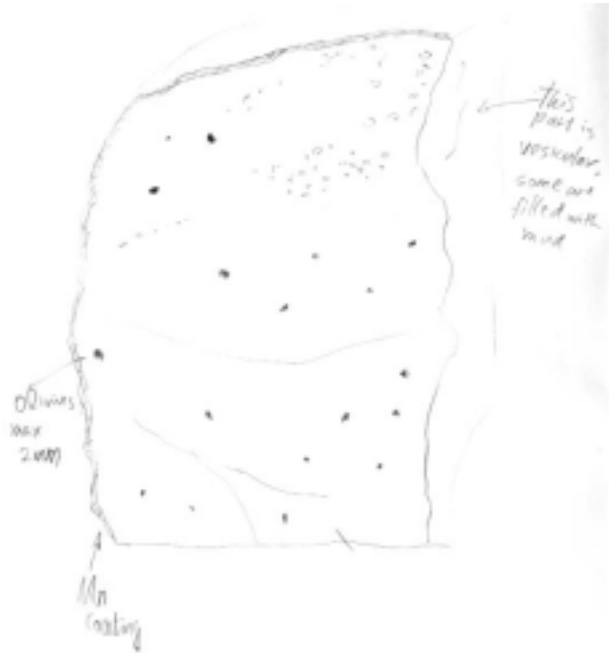


Sample Size : X= 11 cm, Y= 10 cm, Z= 9 cm; **Weight**: 800g
Mn coating : <0.5 mm; **Color (inside the rock)**: dark grey
Alteration: no* weak strong; **Vesicularity** 5 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass _____mm
Picrite: Phenocrysts= %, %
Ol basalt* Phenocrysts= ol: 5 %, %
Pl-ol basalt Phenocrysts= %, %
Aphyric rock Phenocrysts= %, %
Others Phenocrysts= %, %
Remarks____0.5mm paragonite . ol; Max 2mm , av, <1mm
_____
_____
_____
_____

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 212-9 (Sep. 9 , 2001)
Described by T. Hanyu

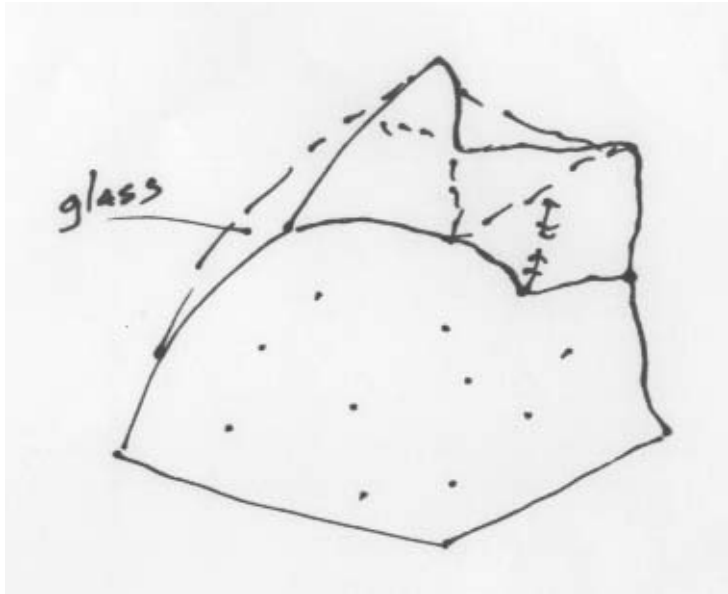


Sample Size : X= 15 cm, Y= 14 cm, Z= 9 cm; **Weight**: 2kg
Mn coating : 1 mm; **Color (inside the rock)**: gray
Alteration: no* weak strong; **Vesicularity** 2 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass 0 mm
Picrite: Phenocrysts= %, %
Ol basalt Phenocrysts= %, %
Pl-ol basalt* Phenocrysts= pl: 3 %, ol: <1 %
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 212-10 (Sep. 9 , 2001)
Described by P. Lipman



Sample Size : X= 15 cm, Y= 10 cm, Z= 9 cm; **Weight**: 1kg
Mn coating : <1 mm; **Color (inside the rock)**: black
Alteration: no* weak strong; **Vesicularity** 0.5 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)

Thickness of glass 1 mm

Picrite:	Phenocrysts=	%,	%
Ol basalt*	Phenocrysts=	2 %,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

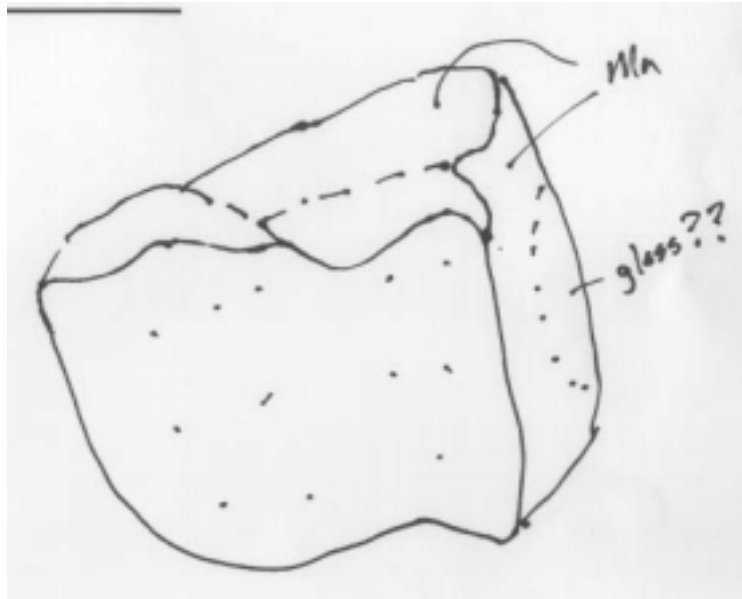
Remarks_____
_____
_____
_____

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 212-11a (Sep. 9 , 2001)
Described by P. Lipman

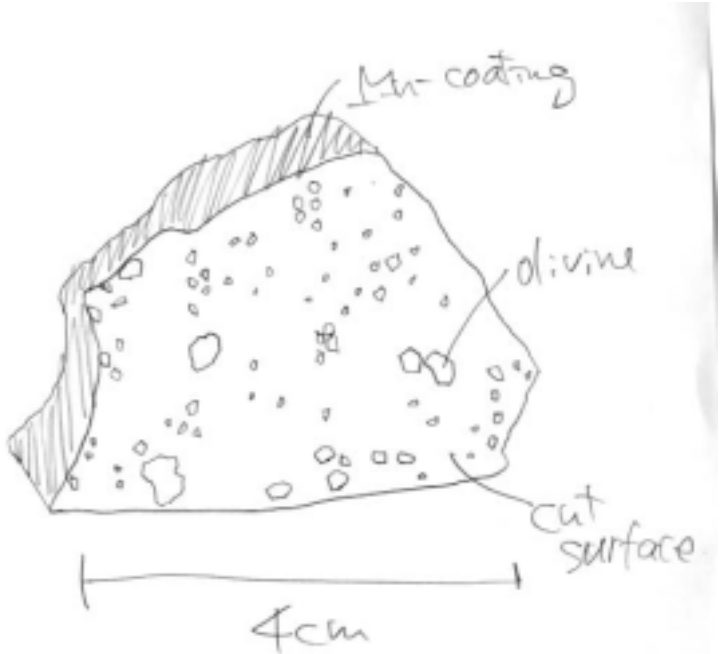


Sample Size : X= 13 cm, Y= 13 cm, Z= 9 cm; **Weight**: 1.5g
Mn coating : 1-2 mm; **Color (inside the rock)**: dark gray
Alteration: no* weak strong; **Vesicularity** 0 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass ? mm
Picrite: Phenocrysts= %, %
Ol basalt* Phenocrysts= 3 %, %
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 212-11b (Sep. 9 , 2001)
Described by T. Kani



Sample Size : X= 7 cm, Y= 5 cm, Z= 4 cm; **Weight**: 100g
Mn coating : 0.5-1 mm; **Color (inside the rock)**: dark grey
Alteration: no weak* strong; **Vesicularity** 0 %
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 %,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

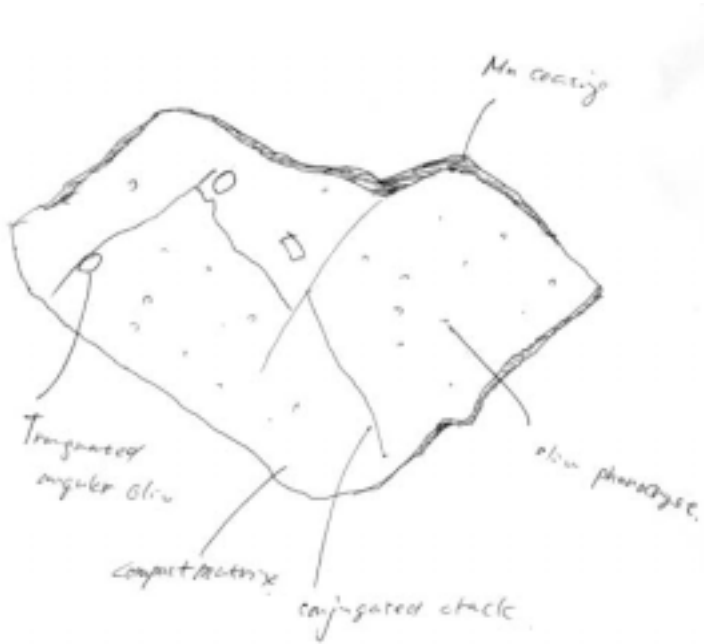
Remarks_____
_____
_____
_____

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 212-11c (Sep. 9 , 2001)
Described by J. Kimura

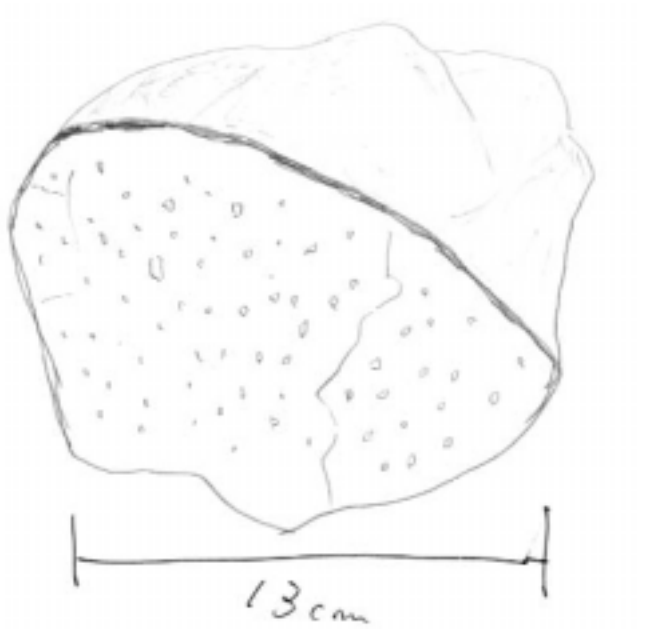


Sample Size : X= 17 cm, Y= 12 cm, Z= 7 cm; **Weight**: 800g
Mn coating : 2.5 mm; **Color (inside the rock)**: black
Alteration: no* weak strong; **Vesicularity** 0 %
Lithology: monomict or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass 0 mm
Picrite: Phenocrysts= %, %
Ol basalt* Phenocrysts= ol: 5-10 %, %
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 212-12a (Sep. 9 , 2001)
Described by E. Takahashi



Sample Size : X= 17 cm, Y= 13 cm, Z= 10 cm; **Weight**: 1.5kg
Mn coating : 2 mm; **Color (inside the rock)**: dark gray
Alteration: no* weak strong; **Vesicularity** <1 %
Lithology: monomict or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

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

Picrite:	Phenocrysts=	%,	%
Ol basalt*	Phenocrysts=	5-10 %,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

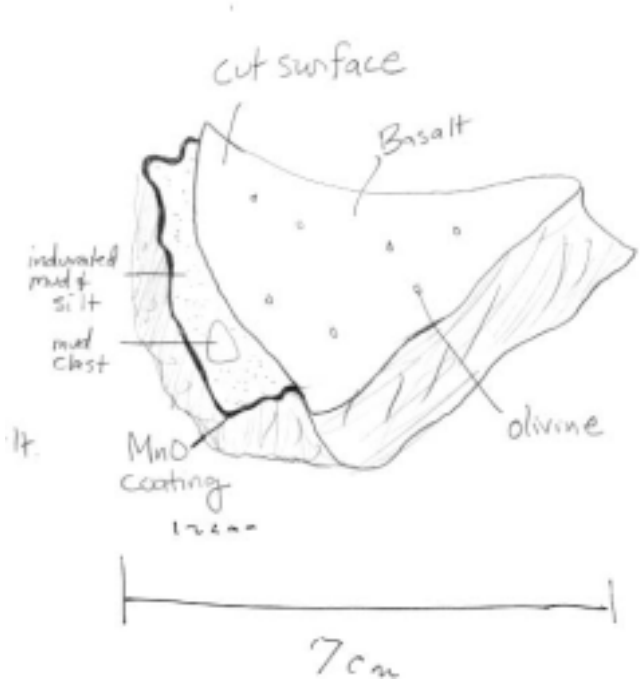
Remarks___Dense pillow fragment with Mn-coating . Very small vesicles (0.1- 0.5mm **ϕ**)_____
_____
_____

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 212-12b (Sep. 9 , 2001)
Described by M. Coombs



Sample Size : X= 8 cm, Y= 7 cm, Z= 5 cm; **Weight**: 100g
Mn coating : 1-2 mm; **Color (inside the rock)**: grey
Alteration: no weak* strong; **Vesicularity** <0.5 %
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: 3 %, %
Pl-ol basalt Phenocrysts= %, %
Aphyric rock Phenocrysts= %, %
Others Phenocrysts= %, %
Remarks___Dense pillow fragment 1/3 of the clast coated in indurated mud / silt._____
_____
_____

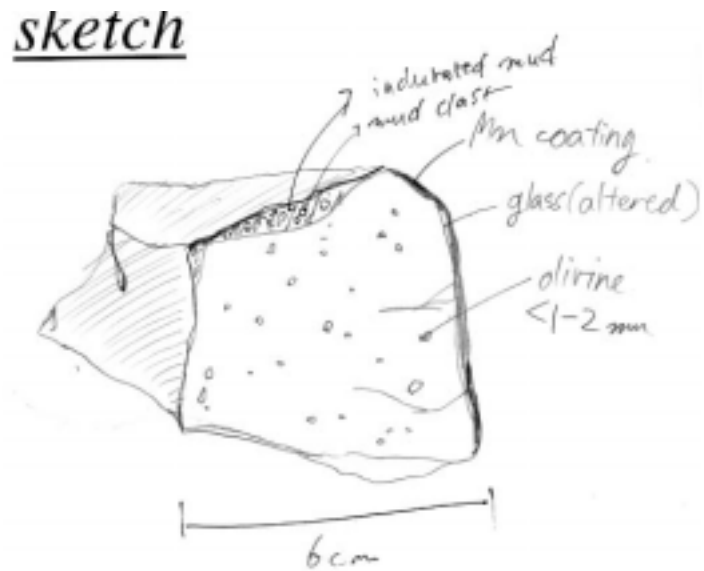
Volcaniclastic rocks and others (characteristic of the clasts)
Fragments comp.: mono poly
Rock type: aphyric B, porphritic B, picrite, others
Grain size (mm) : < 1 – 2 – 4 – 8 – 16 – 32 – 64 – 128 – 256 <
Sorting : well----------poorly
Roundness : round----------angular
Fabric: clast-support ----------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

K 212-12c (Sep. 9 , 2001)
Described by M. Maruyama

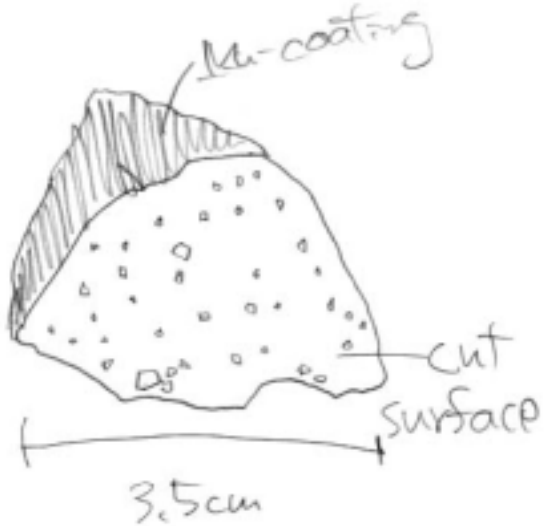
Sample Size : X= 13 cm, Y= 8 cm, Z= 7 cm; **Weight**: 200g
Mn coating : 0.5 mm; **Color (inside the rock)**: black
Alteration: no* weak strong; **Vesicularity** 0 %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass 1 mm
Picrite: Phenocrysts= %, %
Ol basalt* Phenocrysts= ol: 3 %, %
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:_____
_____
_____

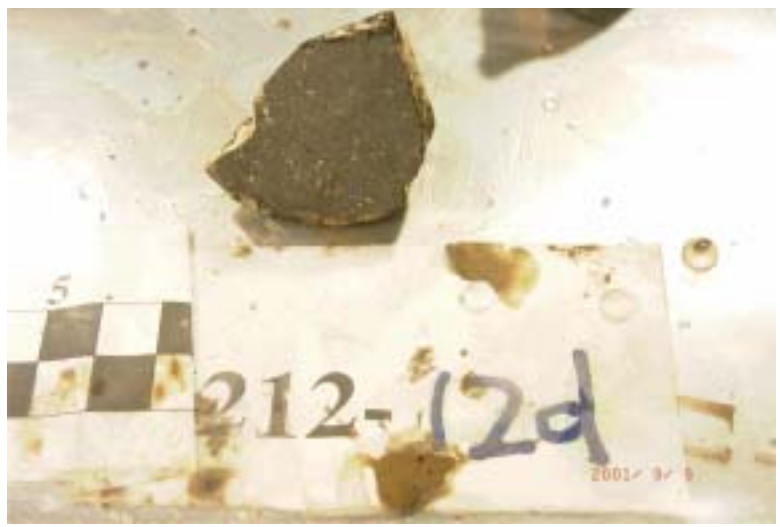


K 212-12d (Sep. 9 , 2001)
Described by T.Kani



Sample Size : X= 6 cm, Y= 5 cm, Z= 3 cm; **Weight**: 80g
Mn coating : <0.1 mm; **Color (inside the rock)**: dark grey
Alteration: no* weak strong; **Vesicularity** 0 %
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: -6 %, %
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 212-13a (Sep. 9 , 2001)
Described by J. Kimura

Sample Size : X= 17 cm, Y= 16 cm, Z= 12 cm; **Weight**: 2kg
Mn coating : 1 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 0 mm
Picrite: Phenocrysts= %, %
Ol basalt* Phenocrysts= ol: 3 %, %
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 212-13b (Sep. 9 , 2001)
Described by M. Nakagawa

Sample Size : X= 26 cm, Y= 18 cm, Z= 17 cm; **Weight**: 7kg
Mn coating : <0.5 mm; **Color (inside the rock)**: dark grey
Alteration: no* weak strong; **Vesicularity** _____ %
Lithology: monomict* or polymict
Occurrence: lava* hyaloclastite volcaniclastics others

Rock types (lava and hyaloclastite)
Thickness of glass 12 mm
Picrite: Phenocrysts= %, %
Ol basalt* Phenocrysts= ol: 5 %, cpx: 1 %
Pl-ol basalt Phenocrysts= %, %
Aphyric rock Phenocrysts= %, %
Others Phenocrysts= %, %
Remarks____ol: Max 1.5mm , Ave. <0.5mm

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:_____