

# K 218- 1 (Sep. 17, 2001)

Described by Ren

**Sample Size :** X=22cm, Y=20 cm, Z=13cm; **Weight:** 5.5kg

**Mn coating :** <0.5 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 \_\_\_\_\_ mm

Picrite*:	Phenocrysts= ol 25	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks \_\_\_\_\_

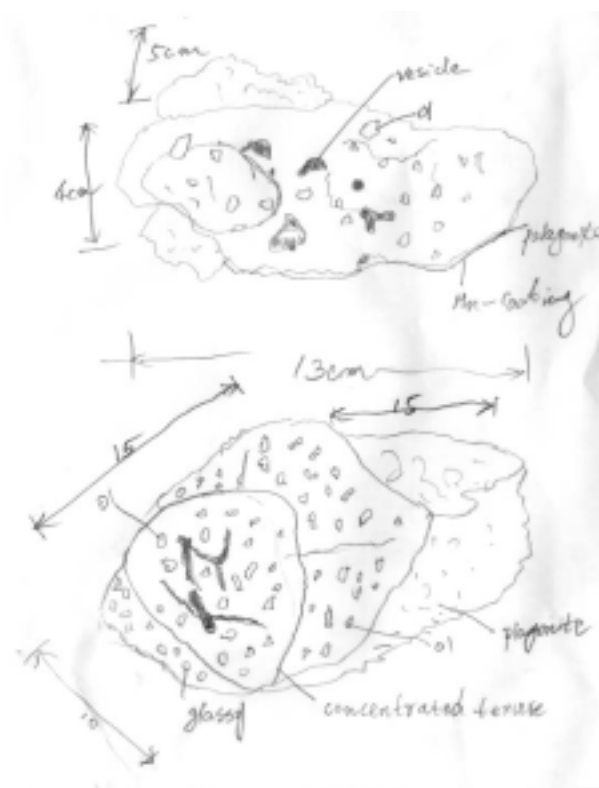
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## Volcanoclastic rocks and others (characteristic of the clasts)

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 palagonite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_  
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# K 218- 2a (Sep. 17, 2001)

Described by Coombs

**Sample Size :** X= 20cm, Y=17 cm, Z= 14 cm; **Weight:** 7kg

**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 \_\_\_\_\_ mm

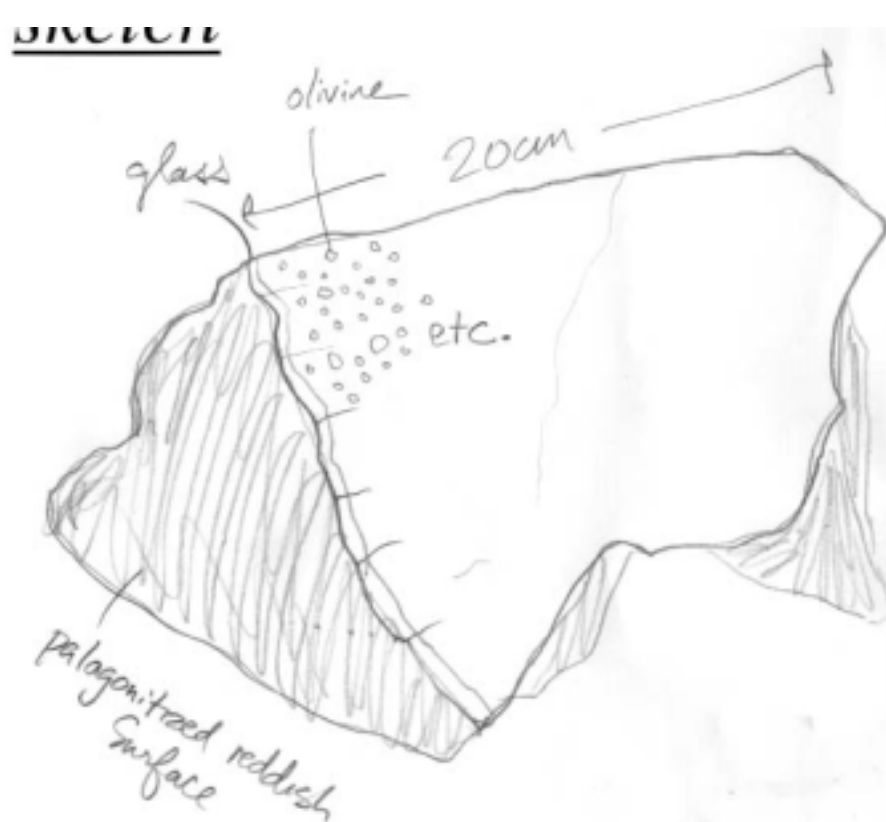
Picrite*:	Phenocrysts= ol 25	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks\_ palagonitized reddish surface

## 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 palagonite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: \_\_\_\_\_



# K 218- 2b (Sep. 17, 2001)

Described by \_\_\_\_\_

**Sample Size :** X= 13 cm, Y=10 cm, Z=5 cm; **Weight:** 150g

**Mn coating :** 0 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 1.0 mm

Picrite\*: Phenocrysts= ol 25 %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks \_\_\_\_\_

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 \_\_\_\_\_  
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## 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

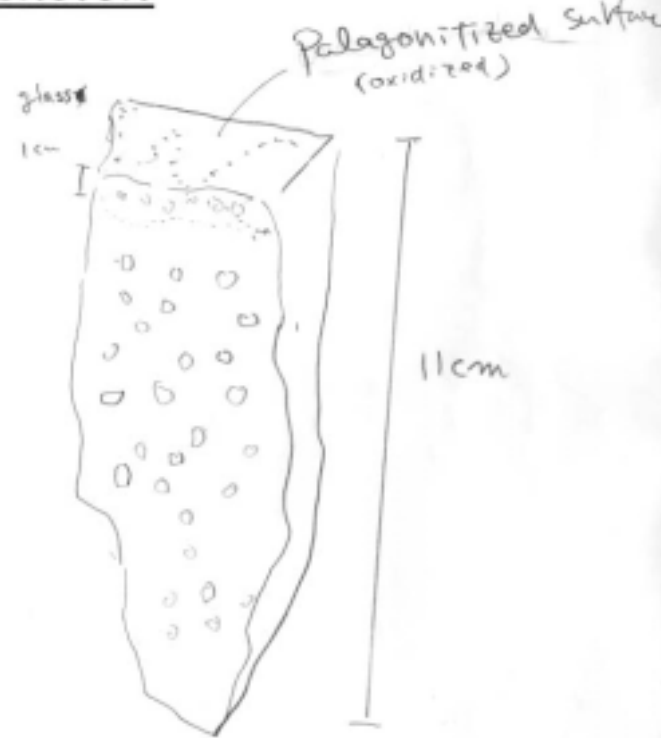
Grading normal-----none-----reverse

Matri silt sand palagonite volcanic glass

Lithified or un lithified

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_



# K 218- 3a (Sep. 17, 2001)

Described by Ren

Sample Size : X= 8 cm, Y= 7 cm, Z= 5 cm; Weight: 150g × 2

Mn coating : <0.5 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 <5 mm

Picrite*:	Phenocrysts= ol 25	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

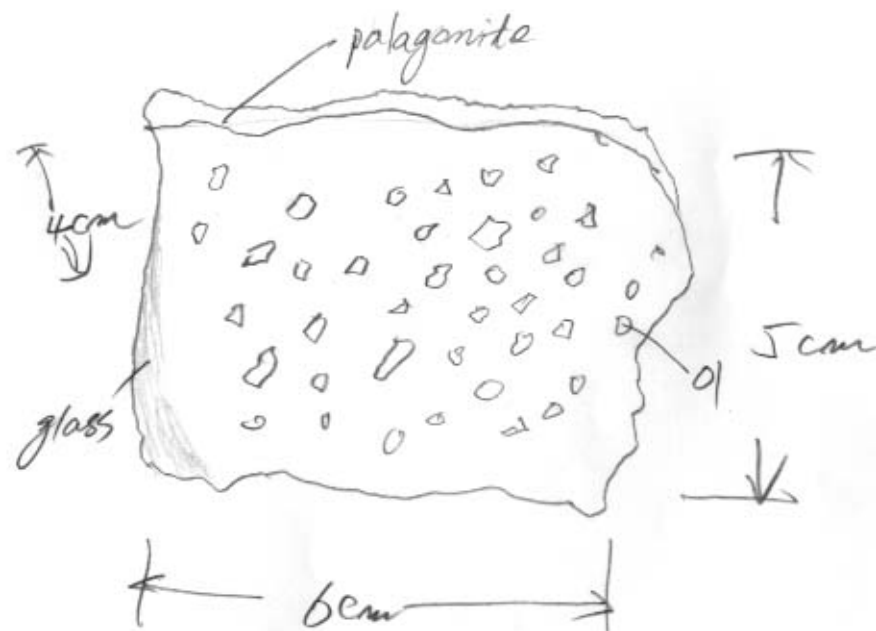
Remarks \_\_\_\_\_

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## 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 palagonite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: \_\_\_\_\_



# K 218- 3b (Sep. 17, 2001)

Described by Lipman

**Sample Size :** X= 15cm, Y= 10 cm, Z=10cm; **Weight:** 500 g  
**Mn coating :** mm; **Color (inside the rock):**black  
**Alteration:** no \* weak strong; **Vesicularity** \_\_\_\_\_ %  
**Lithology:** monomict\* or polymict  
**Occurrence:** lava \* hyaloclastite volcanics others

## Rock types (lava and hyaloclastite)

Thickness of glass 5 mm

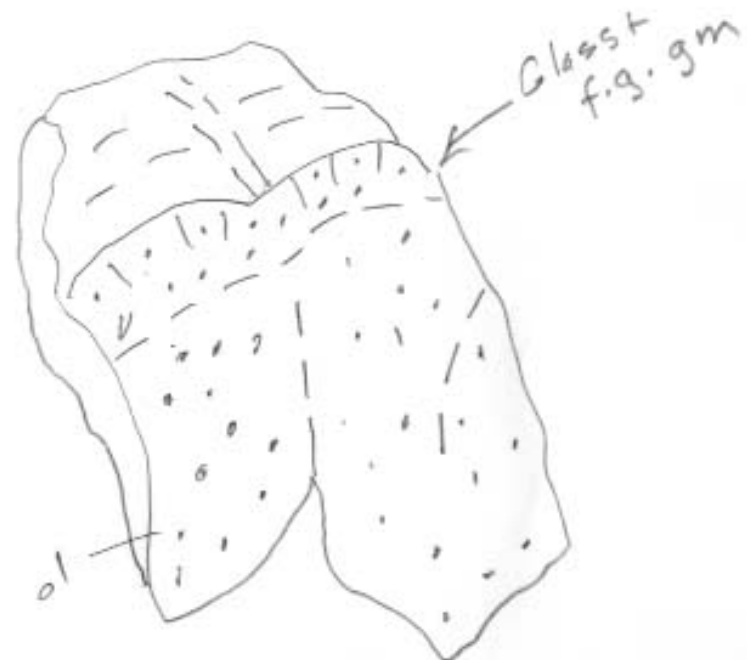
Picrite*:	Phenocrysts=	25	%,		%
Ol basalt	Phenocrysts=		%,		%
Pl-ol basalt	Phenocrysts=		%,		%
Aphyric rock	Phenocrysts=		%,		%
Others	Phenocrysts=		%,		%

Remarks Pillow fragment

## Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.:	mono	poly
Rock type:	aphyric B, 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 palagonite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: \_\_\_\_\_



# K 218- 4 (Sep. 17, 2001)

## Described by Lipman

**Sample Size :** X=14cm, Y=10 cm, Z= 8cm; **Weight:** 500g

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

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

**Lithology:** monomict or polymict

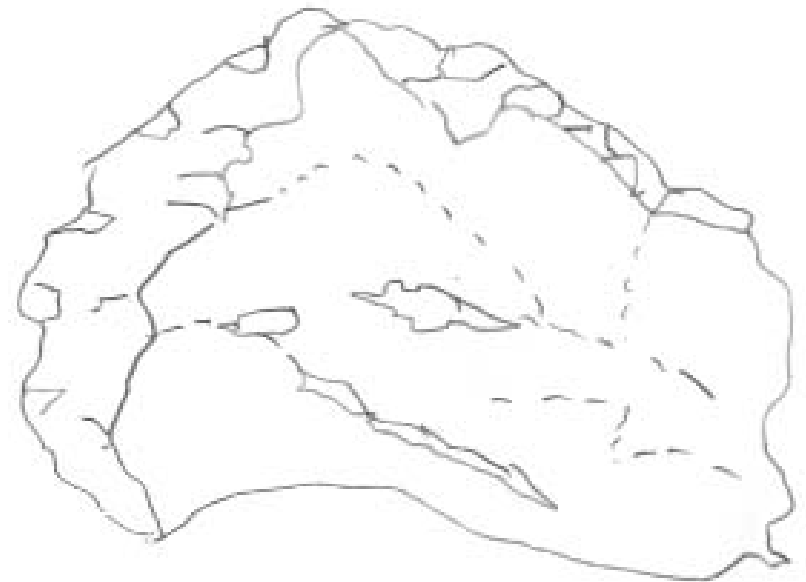
**Occurrence:** lava\* hyaloclastite volcanics others

### Rock types (lava and hyaloclastite)

Thickness of glass thin or absent

Picrite:	Phenocrysts=	25	%,		%
Ol basalt	Phenocrysts=		%,		%
Pl-ol basalt	Phenocrysts=		%,		%
Aphyric rock	Phenocrysts=		%,		%
Others	Phenocrysts=		%,		%

**Remarks** Rough surface, irregular long vesicles, and many internal cracks like suberial "spiny a'a" –Described previous in submarine environment?



### 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 palagonite volcanic glass	
	Lithified or un lithified	

**Sedimentary structure:** \_\_\_\_\_



# K 218- 5 (Sep. 17, 2001)

Described by Ren

Sample Size : X=18 cm, Y= 18 cm, Z= 18 cm; Weight: 3 kg  
 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	_____	mm
Picrite*:	Phenocrysts= ol 25 %,	%
Ol basalt	Phenocrysts= %,	%
Pl-ol basalt	Phenocrysts= %,	%
Aphyric rock	Phenocrysts= %,	%
Others	Phenocrysts= %,	%

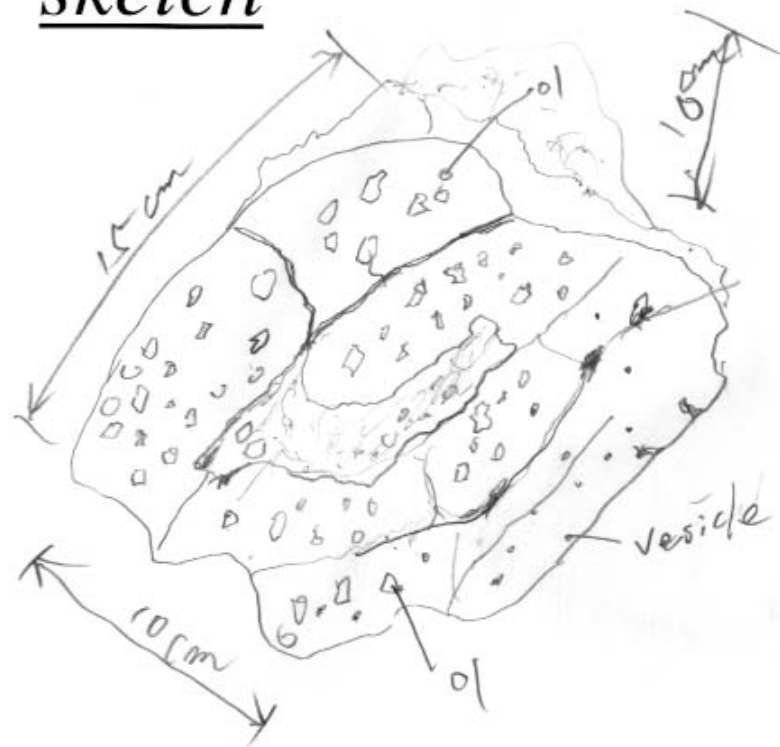
Remarks \_\_\_\_\_

## Volcaniclastic rocks and others (characteristic of the clasts)

Fragments comp.: mono poly  
 Rock type: aphyric B, 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 palagonite volcanic glass  
 Lithified or unlithified

Sedimentary structure: \_\_\_\_\_

Sketch



# K 218- 6 (Sep. 17, 2001)

Described by Lipman

Sample Size : X= 12m, Y=9cm, Z= 7 cm; Weight: 500 g

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

Alteration: no \* weak strong; Vesicularity <1%

Lithology: monomic\*t or polymict

Occurrence: lava\* hyaloclastite volcanics others

## Rock types (lava and hyaloclastite)

Thickness of glass 6-8 mm

Picrite\*: Phenocrysts= 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

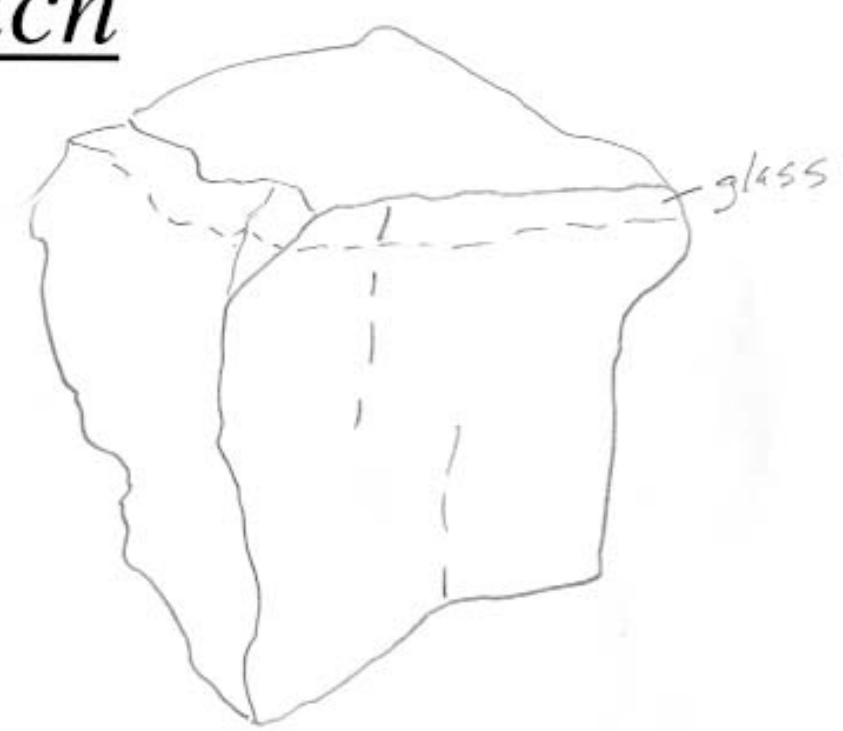
Matri silt sand palagonite volcanic glass

Lithified or un lithified

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_

Picrite





# K 218- 7 (Sep. 17, 2001)

Described by \_\_\_\_\_

Sample Size : X= 14 cm, Y= 8 cm, Z= 6 cm; Weight: 500 g

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 1cm

Picrite*:	Phenocrysts= ol 25	%,		%
Ol basalt	Phenocrysts=	%,		%
Pl-ol basalt	Phenocrysts=	%,		%
Aphyric rock	Phenocrysts=	%,		%
Others	Phenocrysts=	%,		%

Remarks inside weakly cracked

## 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 palagonite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: \_\_\_\_\_



# K 218- 8 (Sep. 17, 2001)

Described by Kanamatsu

Sample Size : X= 16 cm, Y= 11 cm, Z= 11 cm; Weight: 5kg  
 Mn coating : 0 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 10mm

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, 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 palagonite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: \_\_\_\_\_



# K 218- 9a (Sep. 17, 2001)

Described by T.Hanyu

Sample Size : X= 18 cm, Y= 17 cm, Z= 16 cm; Weight: 8kg

Mn coating : <0.5mm; Color (inside the rock):dark grey

Alteration: no\* weak strong; Vesicularity 2%

Lithology: monomict\* or polymict

Occurrence: lava \* hyaloclastite volcanoclastics others

## Rock types (lava and hyaloclastite)

Thickness of glass 10mm

Picrite\*: Phenocrysts= ol 250 %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks \_\_\_\_\_

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\_\_\_\_\_  
\_\_\_\_\_

## 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 palagonite volcanic glass

Lithified or un lithified

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_



# K 218- 9b (Sep. 17, 2001)

Described by Coombs

Sample Size : X= 15 cm, Y= 9 cm, Z= 6 cm; Weight: 300 g

Mn coating : 0 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 2-3 mm

Picrite\*: Phenocrysts= ol 25 %, %

Ol basalt Phenocrysts= %, %

Pl-ol basalt Phenocrysts= %, %

Aphyric rock Phenocrysts= %, %

Others Phenocrysts= %, %

Remarks some palagonitization on glass rind

## 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

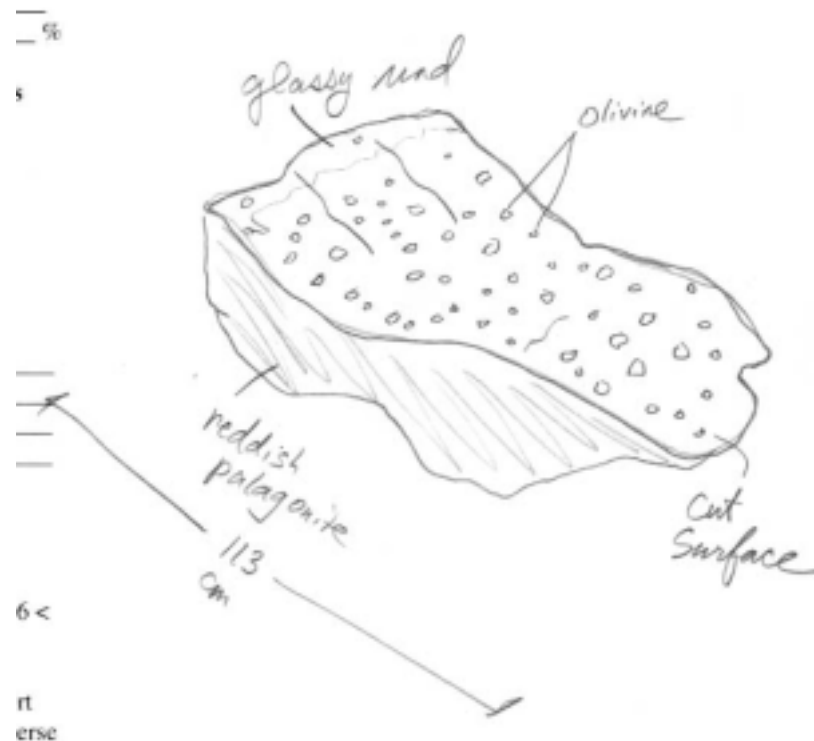
Fabric: clast-support ----- matrix support

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

Matri silt sand palagonite volcanic glass

Lithified or unlithified

Sedimentary structure: \_\_\_\_\_



# K 218- 10 (Sep. 17, 2001)

Described by M.Maruyama

Sample Size : X= 11cm, Y= 9 cm, Z= 7 cm; Weight: 500g X2

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

Alteration: no \* weak strong; Vesicularity 10 %

Lithology: monomict\* or polymict

Occurrence: lava\* hyaloclastite volcanics others

## Rock types (lava and hyaloclastite)

Thickness of glass 0.5 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 palagonite volcanic glass

Lithified or un lithified

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_



# K 218- 11 (Sep. 17, 2001)

Described by \_\_\_\_\_

Sample Size : X= 13cm, Y= 11cm, Z= 11 cm; Weight: 500 g

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

Alteration: no \* weak strong; Vesicularity \_\_\_\_\_ %

Lithology: monomict\* or polymict

Occurrence: lava\* hyaloclastite volcanics others

## Rock types (lava and hyaloclastite)

Thickness of glass 2 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, 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 palagonite volcanic glass

Lithified or un lithified

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# K 218- 12 (Sep. 17, 2001)

Described by T.Kani

Sample Size : X= 11 cm, Y= 9 cm, Z= 8 cm; Weight: 700g X2

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

Alteration: no\* weak strong; Vesicularity <1 %

Lithology: monomict\* or polymict

Occurrence: lava\* hyaloclastite volcanoclastics others

## Rock types (lava and hyaloclastite)

Thickness of glass 2mm

Picrite*:	Phenocrysts= ol 25	%,	%
Ol basalt	Phenocrysts=	%,	%
Pl-ol basalt	Phenocrysts=	%,	%
Aphyric rock	Phenocrysts=	%,	%
Others	Phenocrysts=	%,	%

Remarks \_\_\_\_\_

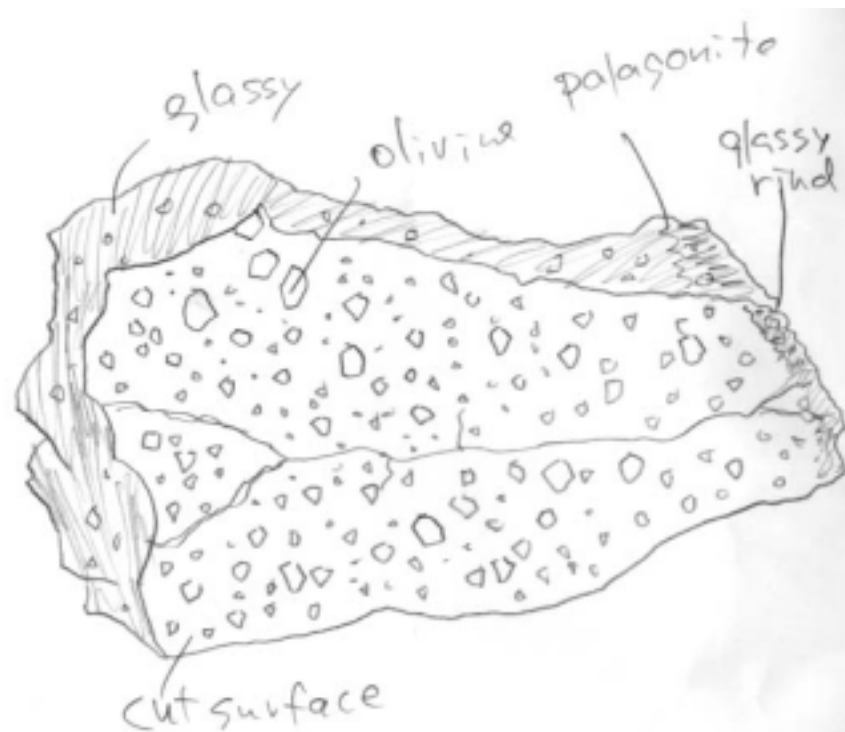
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## Volcanoclastic rocks and others (characteristic of the clasts)

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 palagonite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_



# K 218- 13 (Sep. 17, 2001)

Described by Coombs

Sample Size : X= 24 cm, Y= 21 cm, Z= 9cm; Weight: 6kg  
 Mn coating : <<1 mm; Color (inside the rock): black  
 Alteration: no weak strong; Vesicularity \_\_\_\_\_ %  
 Lithology: monomict\* or polymict  
 Occurrence: lava\* hyaloclastite volcanoclastics others

## Rock types (lava and hyaloclastite)

Thickness of glass 1-2 mm

Picrite:	Phenocrysts=	ol 29	%,		%
Ol basalt	Phenocrysts=		%,		%
Pl-ol basalt	Phenocrysts=		%,		%
Aphyric rock	Phenocrysts=		%,		%
Others	Phenocrysts=		%,		%

Remarks ropy flow structure

## 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 palagonite volcanic glass	
	Lithified or unlithified	

Sedimentary structure: \_\_\_\_\_





# K 218- 14 (Sep. 17, 2001)

Described by N. Mashima

Sample Size : X= 22 cm, Y= 17 cm, Z= 15 cm; Weight: 13kg

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 \_\_\_\_\_ 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, 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 palagonite volcanic glass	
	Lithified or un lithified	

Sedimentary structure: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_

