





L3-84-SP

Sample Description

Cruise I.D.: L3-83-HW

Sample I.D.: Sta: D 26-1

Location: LAU Ridge

Size: 2x2x3cm Weight: 196g

+ 4 small pieces all < 4cm<sup>2</sup> (total 1.4g)

Mn crust thickness: Total: min: 2mm max: 1.5cm ave: 1cm

Inner crust: min: \_\_\_\_\_ max: \_\_\_\_\_ ave: \_\_\_\_\_

Outer crust: min: \_\_\_\_\_ max: \_\_\_\_\_ ave: \_\_\_\_\_

Surface texture: Rough & porous

Internal structure: \_\_\_\_\_

- layered: \_\_\_\_\_
- laminated: \_\_\_\_\_
- massive: \_\_\_\_\_
- porous:
- dendritic: \_\_\_\_\_
- other: \_\_\_\_\_

Mineralogy (XRD): \_\_\_\_\_

Associated alteration, phosphorite, or hydrothermal deposits: \_\_\_\_\_

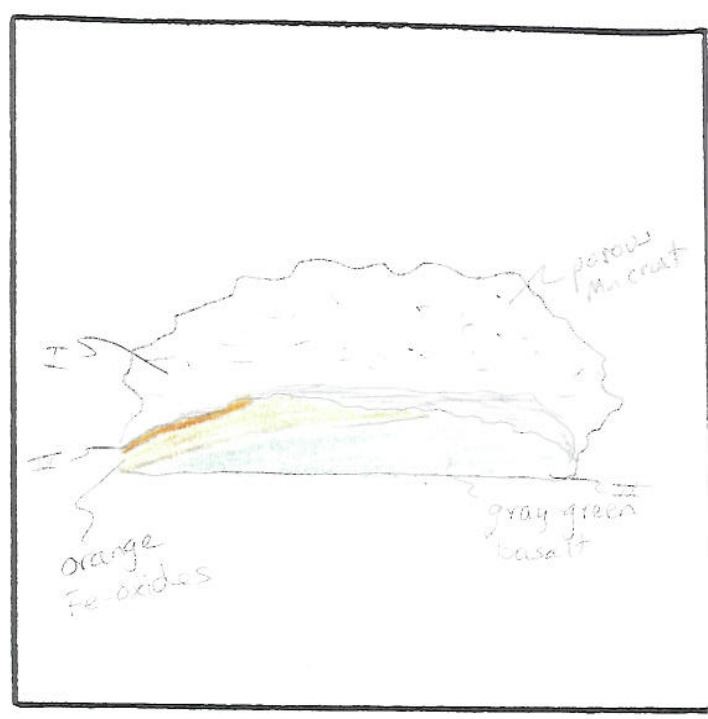
Substratum: Basaltic Andesite

Rock type: Andesite

Description: Gray-green vesicular - many vesicles and filled w/ glass, and many yellowish glass phenocrysts. Approx. 1/2 of rock is highly altered & has heavy yellow-orange Fe oxide staining.

Chemistry: Samples were dry when sampled, everything stored dry.

Mineralogy (XRD): \_\_\_\_\_



Analyses and subsamples:

analysis:

analyst:

- XRD
- I Mn crust (0-1.5cm)
- II substrate -  $\text{Fe}^{2+}$
- III orange altered material

D26-1 Bulk, CC, 0-15mm, 50mm associated crust cleaned and homogenized (see photo on back)

SEM of Crust Texture

Cronan - parthian



D26-1

L3-84-SP

LAU BASIN

Chemistry From several pieces of crust,  
 cleaned of substrate and enclosing rocks.  
 Avoided textures that look at all  
 granular ie. side crusts



D26-1

L3-84-SP

LAU BASIN



D26-1

L3-84-SP

LAU BASIN

L3-84-SP

Sample Description

Cruise I.D: L5-83-HW

Sample I.D: Sta: D 26-1

Location: LAU Ridge

Size: 2x2x3cm Weight: 196g

+ 4 small pieces all < 4cm<sup>2</sup> (mostly 1cm)

Mn crust thickness:

Total: min: 2cm max: 1.5cm ave: 1cm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: Rough & porous

Internal structure:

- layered: \_\_\_\_\_
- laminated: \_\_\_\_\_
- massive: \_\_\_\_\_
- porous:  \_\_\_\_\_
- dendritic: \_\_\_\_\_
- other: \_\_\_\_\_

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

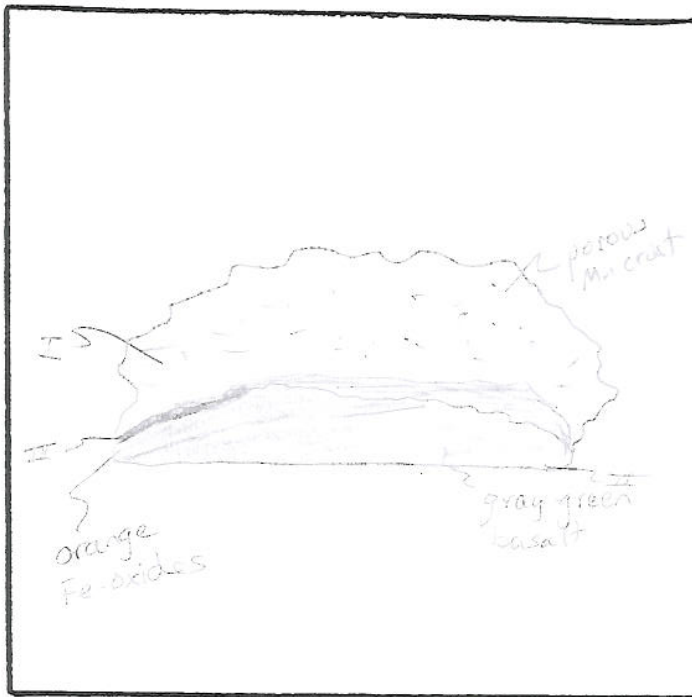
Substratum: Basaltic Andesite

Rock type: Andesite

Description: Gray-green vesicular - many vesicles not filled w/ glass, and many yellowish clay glauconite. Lower part of rock is being altered & has heavy yellow-orange Fe oxide staining

Chemistry: Samples were dry when sampled, everything stored dry.

Mineralogy (XRD):



Analyses and subsamples:

analysis:

analyst:

XRD

I Mn crust (0-1.5cm)

II Substrate - andesite

III orange altered material

D26-1 Bulk, CC, 0-15mm, 50mm associated crusts cleaned and homogenized (see photo on back)

SEM OF crust texture

Cronan - parkian



D26-1

L3-84-SP

LAU BASIN

Chemistry from several pieces of Fe crust.  
cleared of substrate and encrusting forms.  
Avoided textures that looked all  
granular ie. side crystals



D26-1

L3-84-SP

LAU BASIN



D26-1

L3-84-SP

LAU BASIN

L3-84-5P

LAO BASIN

Also sampled hot core - GC-2-1B:

27cm - volc. glass, calcite, plg., qtz, hematite?, halite, chlorite?

48cm - volc. glass, plagioclase, qtz, halite, calcite?  
^  
dominantly

CC - volc. glass, plagioclase, qtz, calcite?, pyrite??