

DREDGE 24
S. Johnston
Is Ridge

Sample Description

Cruise I.D: F7-86-HW

Sample I.D: Sta: 26 CD24-1

Location: S. Johnson

28 x 21 x 8

Size: _____ Weight: 8 kg

Ridge

Mn crust thickness:

Total: min: 40mm max: 60 ave: 50mm

Inner crust: min: 10 max: 25 ave: 20

Outer crust: min: 20mm max: 30 ave: 25

Surface texture: Deep Botryoidal

Internal structure: Mushroom Botryoidal

layered: 3(4) → 2 inner separated by phosphite from outer
laminated: inner
massive: innermost v. dense / outer v. porous
porous: _____
dendritic: _____
other: _____

Mineralogy (XRD): _____

Associated alteration, phosphorite, or hydrothermal deposits: _____

Paper-thin phosphite layer

Substratum: _____

Rock type: Volcanic Breccia

Description: Thin layer of yellowish brown breccia, very phosphorized Mn contact with crust, Mn cement in upper portion of crust. After slabbing again for Chem. it becomes apparent that substr. burrowed and the burrows were infilled with Mn and phosphite.

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? or contact with crust, Mn cement in upper portion of crust.
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Mineralogy (XRD): _____



Phos study

CD24-1

Analyses and subsamples:

analysis: outer layer 1

analyst: CC, Pt, Au, REE 2mm

CD24-1B inner layer 2

DPTS

35 mm slide

G. Smith



CD24-1



CD24-1
SURFACE
Texture

Sample Description

Cruise I.D: F7-86-HW

Sample I.D: Sta: 26 CD 24-2

Location: S. Johnston I

22 x 16 x 10

Size: _____ Weight: 1.3 kg (in pieces)

Ridge

Mn crust thickness:

Total: min: _____ max: NONE ave: _____

Inner crust: min: _____ max: _____ ave: _____

Outer crust: min: _____ max: _____ ave: _____

Surface texture: _____

Internal structure: _____

- layered: _____
- laminated: _____
- massive: _____
- porous: _____
- dendritic: _____
- other: _____

Mineralogy (XRD): _____

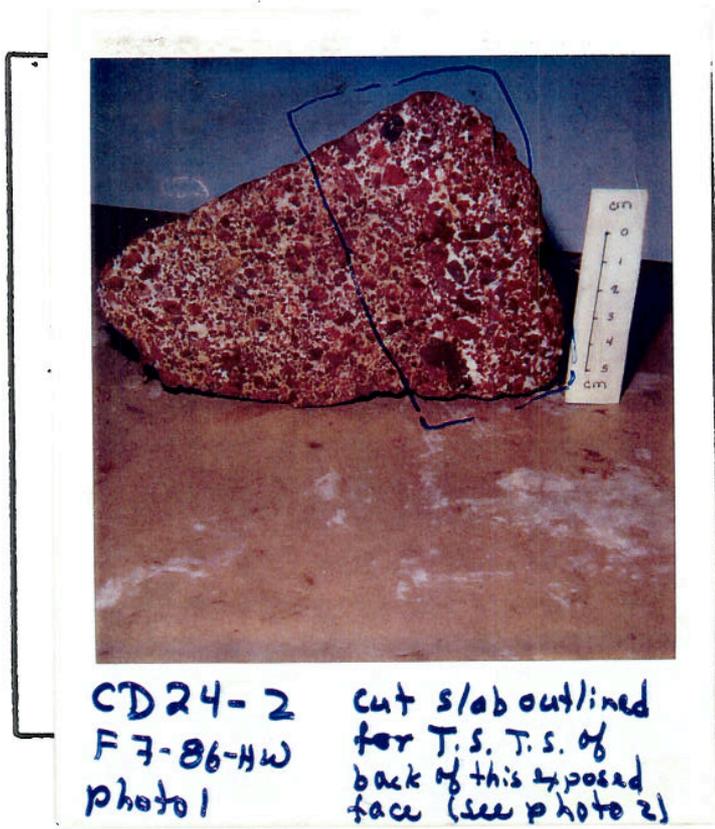
Associated alteration, phosphorite, or hydrothermal deposits: _____

Substratum: _____

Rock type: Volcanic Breccia

Description: reddish-brown to brown altered rock with clasts in white calcite cement - angular to subangular - coarse sand size to pebbles.

Mineralogy (XRD): _____



Analyses and subsamples:

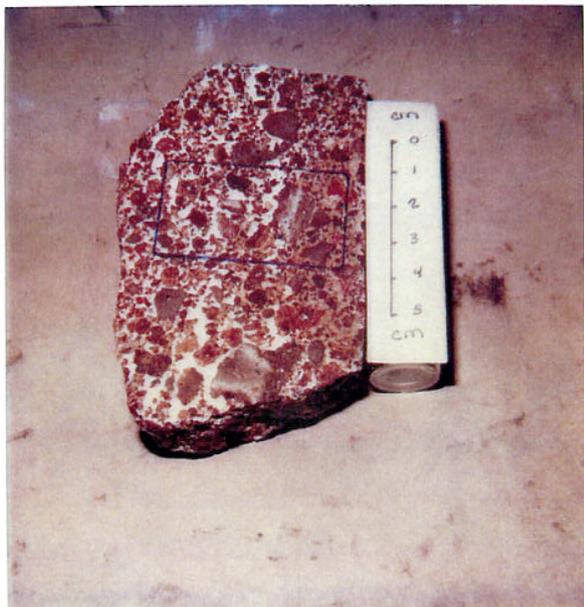
analysis:

analyst:

part to Alice
" " to mines

T.S. samples

Manu Petrus. Lisa G



CD 24-2 slab sent for
F7-86-HW T.S. (see photo 1)
photo 2

Cruise Id: F7-86-HW Size _____ (cm) Location: Johnston Island ridge

Sample Id: CD 24-3 Weight: _____ (kg) Depth: _____ (m)

Mn Crust Description

Surface Texture: _____

Mn Crust Thickness (mm):
Min: _____ Max: _____ Ave: _____

Layers (Outer to Inner)(mm):

Min	Max	Ave	Texture & Color
1.			
2.			
3.			
4.			
5.			
6.			

* Alice has this sample
She has numbered it
CD 24-A1

Comments and XRD Mineralogy:

ANALYSES

Subsample Number	Analysis	Layer Thickness
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Substrate Description

Rock Type: Basalt (Mugearite)

Description: _____

Biology?: _____

Described By:

Alice Davis

Subsampled By: