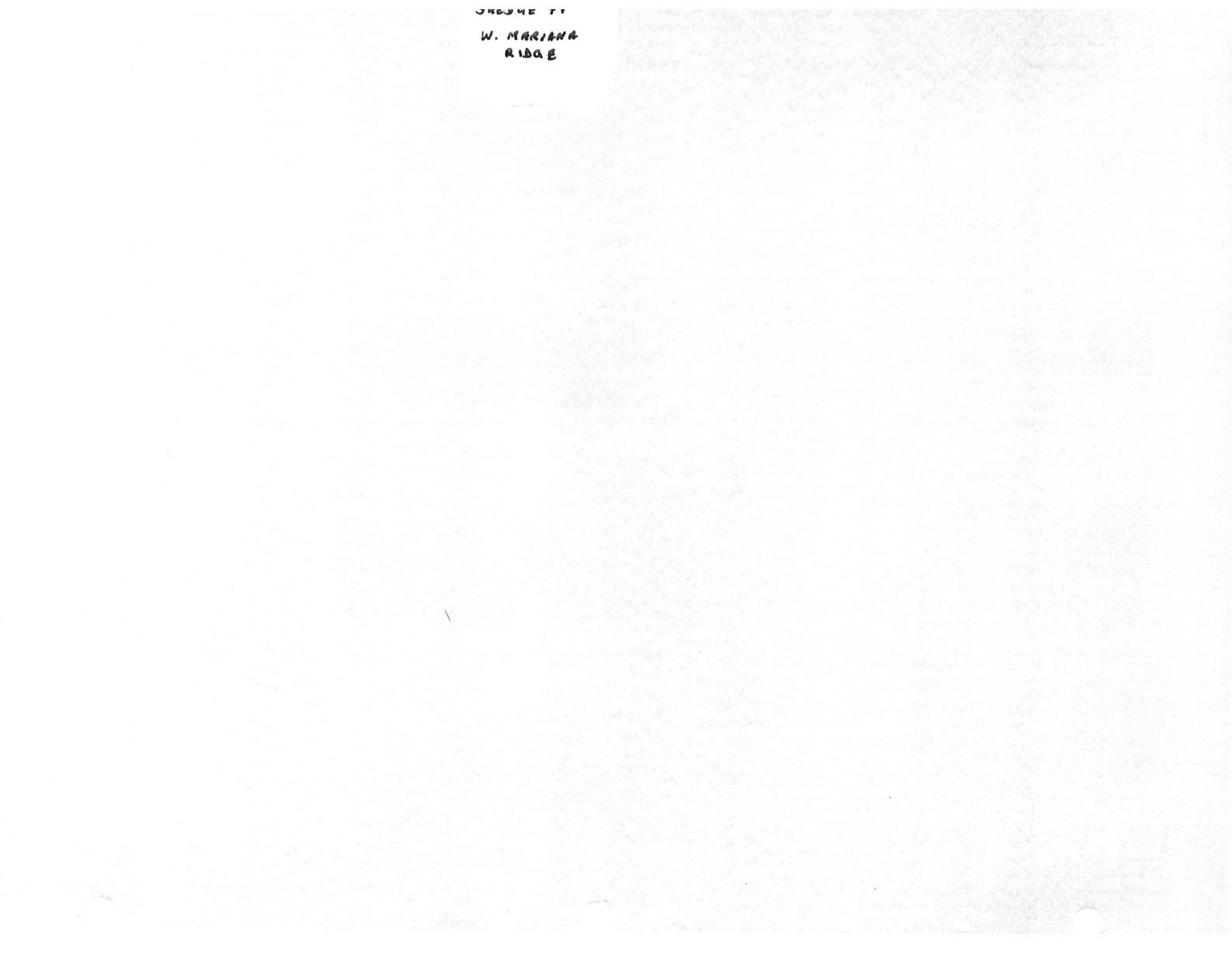

W. MARIANA
RIDGE

SAMPLE ID	Mn CHEM	Pt & Au	REE	Si Chem	P.Sect.	35mm Pho	Archive	Paleo	XRD			
D'71-1	✓	✓	✓									
D'71-2	Jayers	✓	✓						✓			
D71-3								✓				
D 71-4	✓											
D'71-5												

Sample Description

Cruise I.D: ~~[illegible]~~ Sample I.D: Sta: D [illegible] Location: [illegible]

Size: [illegible] Weight: [illegible]

Mn crust thickness:

Total: min: max: ave:

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture:

Internal structure:

layered: V
laminated:
massive:
porous:
dendritic:
other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: [illegible]

Description:

[illegible]

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:
[illegible]	[illegible]
XRD [illegible]	
[illegible]	
[illegible] D71-1	
[illegible] D71-1	
[illegible] D71-1	
XRD	
D71-1 also sent to [illegible]	

Sample Description

Cruise I.D: ~~L5-83-HW~~ Mariana Is. (slanted)

Sample I.D: Sta: D71-2

Location: W. Mariana Ridge

Size: 3x20x16 cm Weight: 2.76 kg (damp)

Depth 1660 m 6 - 2 dec

Mn crust thickness:

Total: min: 2.5 cm max: 4.9 cm ave: ~2.5 cm

Inner crust: min: .5 cm max: [illegible] ave: .75 cm

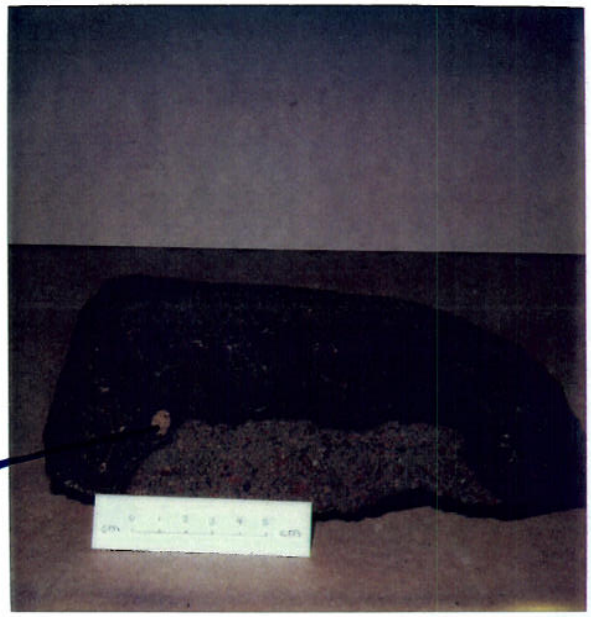
Outer crust: min: 2.5 cm max: [illegible] ave: 3.5 cm

Surface texture: [illegible]

Internal structure:

layered: ✓
laminated:
massive:
porous: ✓
dendritic:
other:

Clay Bed



D71-2

Mariana TT192

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Very Coarse Sandstone [illegible]

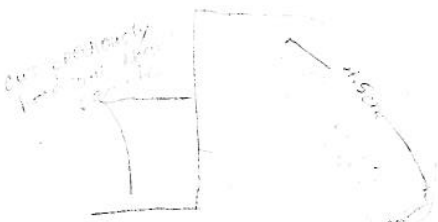
Description: Sand stone has angular fragments, altered [illegible]

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:
Chemistry: Bulk sample of crust to [illegible]	L. Morgenson
Pt group [illegible]	
XRD: bulk [illegible] from sample sent to [illegible] (D71-2 I)	
Chemistry: XRD	
D71-2 A just XRD - ONCLAYBURB	M. Morrison 10-12-87
D71-2-B-I outer [illegible] sides	
D71-2-B-II outer [illegible] from Top	
D71-2-C-I outer iron stained side 0-2.5 cm	
D71-2-C-II [illegible] stained/top 0-3 cm	
D71-2-D-I inner massive layer/side 2.5-3.5 cm	
D71-2-D-II inner massive layer Top 3.5-4.5 cm	
Small piece of [illegible]	
Dr. Kevin [illegible]	

OVER



SAMPLE DESCRIPTION

Id: TT192 Size: [illegible] Location: W. Mariana Ridge

Sample Id: D71-3 Weight: 1 kg Depth: 1660 M

Mn Crust Description

Surface Texture: [illegible]

Mn Crust Thickness:

Min: [illegible] Max: [illegible] Ave: [illegible]

Layers (Outer to Inner):

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

TT192 D71-3

Mariana Islands

C[illegible]nts and XRD Mineralogy:

[illegible]

ANALYSES

Approved

Substrate Description

Rock Type: Volcaniclastic Breccia

Description:

Some alteration, mostly andesite clasts

One black clast looks like it has an alteration rim

Mn stained between clasts

Described By: JSM Subsampled By:

Sample Description

Cruise I.D: ~~L5-83-MW~~ Sample I.D: Sta: D 7-4 Location:

Size: Weight:

Mn crust thickness:

Total: min: max: ave:

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture:

Internal structure:

layered:
laminated:
massive:
porous:
dendritic:
other:

Mineralogy (XRD):

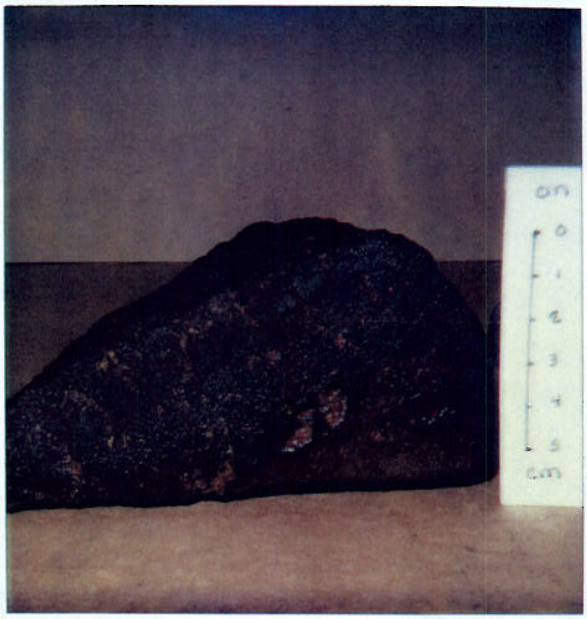
Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type:

Description:

Mineralogy (XRD):



071-4 Mariana Is
T T 192

Analyses and subsamples:

analysis:	analyst:

SAMPLE DESCRIPTION

Id: TT192 Size: _____ Location: W. Mariana [illegible]

Sample Id: D71-5 Weight: _____ Depth: 1660 m

Mn Crust Description

Surface Texture: [illegible]

Mn Crust Thickness:

Min: 20mm Max: 40mm Ave: 30mm

Layers (Outer to Inner):

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

D71-5

Mariana Islands

C[illegible]nts and XRD Mineralogy:

MISC. pieces of crust fragments

Crusts are porous w/ sediment throughout

ANALYSES

Substrate Description

Rock Type: Volcaniclastic Breccia

Description:

Not much substrate [illegible] of these crust

Described By: JSM Subsampled By: