Dredge 10

Sample Description

Cruise I.D: L5-83-HW Sample I.D: Sta: D10-A1 Location: Necker Ridge

Size: Broken ~~23x18x17cm~~ Weight: 3.20 kg

Mn crust thickness:

Total: min: ____ max: ____ ave: 3cm

Inner crust: min: ____ max: ____ ave: ____

Outer crust: min: ____ max: ____ ave: ____

Surface texture: Rough & porous

Internal structure:

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

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Volc. Breccia

Description:

Extremely dessicated, altered orange red volc. clasts in yellow zeolitized clay matrix peppered w/Mn

Mineralogy (XRD):

L5-83-HW

D10-A1

Analyses and subsamples:

analysis:	analyst:
XRD:	C. Daniel
I: substrate	
II: Mn crust (~3cm)	
Chemistry-substrate	
Density	

Sample Description

Cruise I.D: L5-83-HW

Sample I.D: Sta: D10-A2

Location: Necker Ridge

Size: 18X14X14cm Weight: 1.75 Kg

Mn crust thickness:

Total: min: max: 3cm ave:

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: porous

Internal structure:

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

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Volc. Breccia

Description:

SAME AS D10-A1

Mineralogy (XRD):

L5-83-HW

D10-A2

Analyses and subsamples:

analysis:	analyst:
Doubly Polished Thin Section	by Mann Petro

Sample Description

Cruise I.D: L5-83-HW

Sample I.D: Sta: D10-A3

Location: Decker Ridge

Size: [illegible] Weight: 190g

CAME AS D10-A1 & A2

Mn crust thickness:

Total: min: max: [illegible] ave:

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: porous

Internal structure:

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

Mineralogy (XRD):

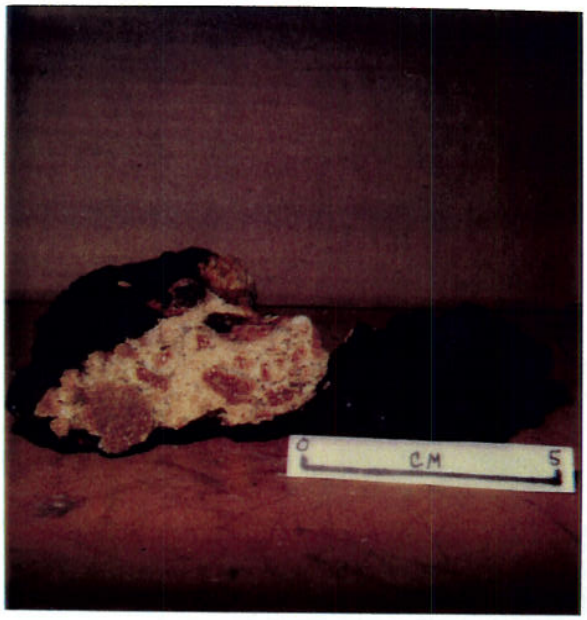
Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type:

Description:

Mineralogy (XRD):



LS-83-HW

D10-A3

Analyses and subsamples:

analysis:	analyst:

Sample Description

Cruise I.D: L5-83-HW

Sample I.D: Sta: D10-B1

Location: Necker Ridge

Size: 8X4X5cm Weight: 85g Cut in ½

Mn crust thickness:

Total: min: max: ave: 35cm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: Smooth

Internal structure:

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

L5-83-HW
D10-B1

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum: NONE

Rock type:

Description:

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:
XRF ½ rock	F Manheim
XRD	Rosemary ?
I outer	
II inner	

Sample Description

Cruise I.D: L5-83-HW

Sample I.D: Sta: D10-B2

Location: Norker Ridge

Size: 9x9x3.5cm Weight: 180g

Mn crust thickness:

Total: min: max: ave: 3cm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: Smooth & slightly botryoidal

Internal structure:

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

L5-83-HW

D10-B2

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: NONE

Description:

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:
Polished thin Section by Mann Petro	