Dredge 15

Sample Description

Cruise I.D: L5-83-HW

Sample I.D: Sta: 22 D 15-B1

Location: Horizon

D = 4500 - 4300 m

Size: 12x8x3 (cm) Weight: 46.5 Kg

Mn crust thickness:

Total: min: 9 mm max: 13 mm ave: 11 mm

Inner crust: min: 7 max: 9 ave: 8 mm

Outer crust: min: 2 max: 4 ave: 2 mm

Surface texture: fairly smooth on top botryoidal on underside

Internal structure:

layered: ✓ ?

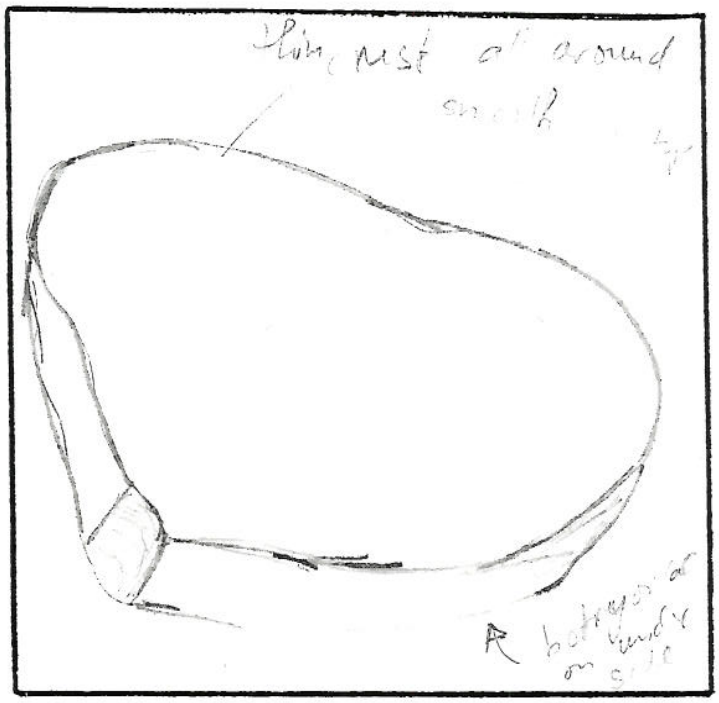
laminated:

massive:

porous: ✓

dendritic:

other:



Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:
small amount of brown clay between bumps on underside

Substratum:

Rock type: volcanic rock
black fine grained

Description: red-brown Fe oxide/hydrox. veinlets + patches (minor)
rock not badly altered

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:
Organic matter chem.	Bill Orem 3/23/84
XRD - composite	Lisa Morgenson
Doubly Polished Thin Section	Marc Peters

Sample Description

Cruise I.D: L5-83-HW Sample I.D: Sta: D15-B2 Location: Horizon

Size: 12X 8X3cm Weight: 505g

Mn crust thickness: nodule

Total: min: 15mm max: 8mm ave: 16mm

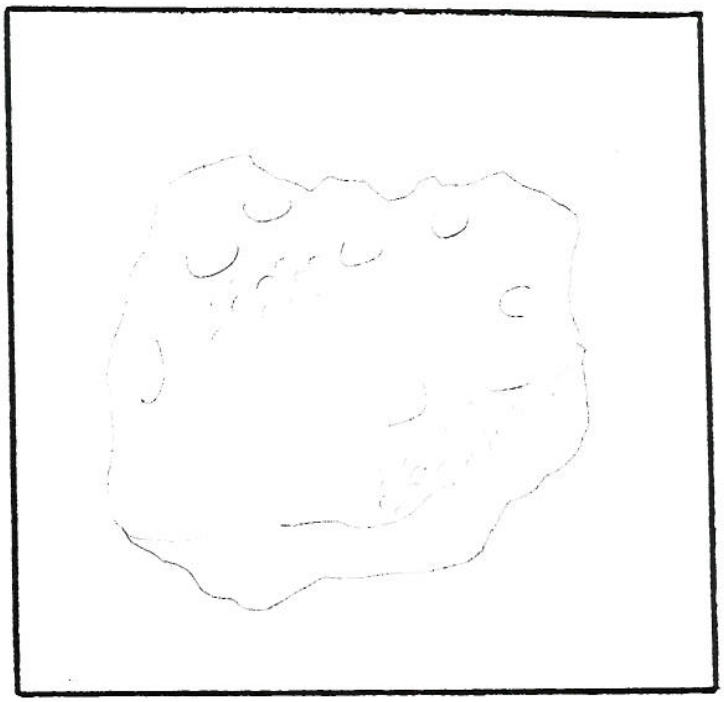
Inner crust: min: ____ max: ____ ave: ____

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

Surface texture: Slightly botryoidal & porous

Internal structure: ____

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



Mineralogy (XRD): ____

Associated alteration, phosphorite, or hydrothermal deposits: ____

Substratum:

Rock type: Siltstone

Description: Tan well indurated siltstone w/ Mn incorporated into it

Mineralogy (XRD): ____

Analyses and subsamples:

analysis:	analyst:
Chemistry - bulk substrate	JSGS
Mn crust chem (Preston)	Job# BZ89 Jung-Keuk
Mn crust	Kang 6/89
I 0-3 mm 9 gm	from [illegible]
II 3-10 mm 10 "	
III LOWER 10 "	