

D17

23°25.44'S

175°51.77'W

1710m

23°23.12'S

175°50.81'W

1200m

2384-SP
Cruise I.D.: 15-83-HW

Sample Description
Sample I.D.: Sta: D17-1

Tonga Ridge
Location: LAJAN 171

Size: _____ Weight: _____
BROKEN (all in small bag)
2 larger pieces are 2x5x1cm
6x5x1.2cm

Mn crust thickness:
Total: min: _____ max: _____ ave: 1cm
Inner crust: min: 5mm max: 7mm ave: 6mm
Outer crust: min: _____ max: _____ ave: 1mm

Surface texture: Rough & porous

Internal structure:
layered: ✓ 3
laminated: _____
massive: _____
porous: _____
dendritic: _____
other: _____

Mineralogy (XRD): _____

Associated alteration, phosphorite, or hydrothermal deposits: _____

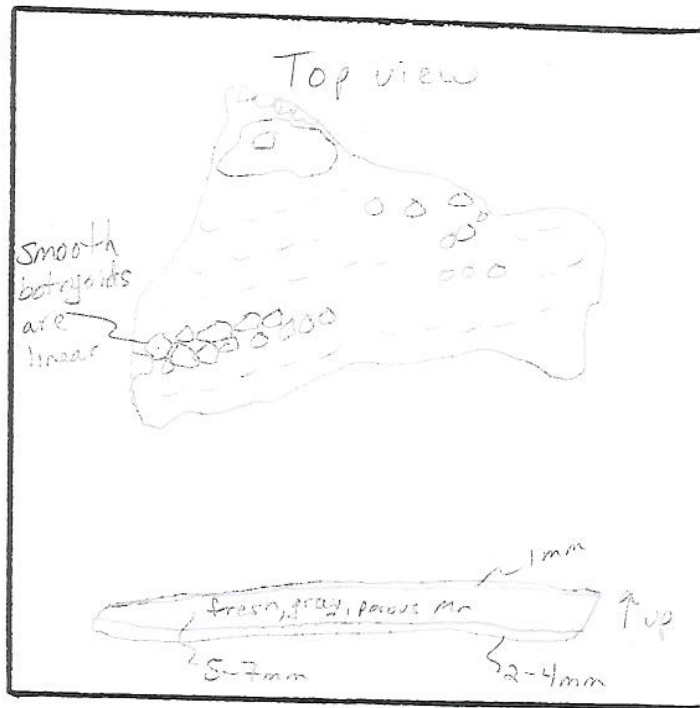
Small amount of white calcareous sediment on surface of crust

Substratum: None
Rock type: Mn crust

Description: Flat tabular pieces of dirty (black silty) coating, silty smooth (almost like graphite) top? or bottom? surface other surface is rough, porous with smooth tabules (botryoids) also coated w/ dirty silty Mn? Inside Mn is fresh looking light gray & porous

Mineralogy (XRD): _____

Se Wong Ohang took subsample 10/97



* Took whole bag

Analyses and subsamples:

analysis:	analyst:
XRD:	C. Daniel
I. outer - top Mn (0-1mm)	
II. inner Mn (1-8mm)	
III. bottom Mn (8-12mm)	
Chem	V.S.S. Mark Park
(p.t.s.)	Mann Petro
D17-1-I: Surface (0-1mm)	
D17-1-II: inner (1-8mm)	
D17-1-III: bottom (8-12mm)	
D17-1-IV: bulk for p. group? Markin p.p. & cdm RFE	
Submitted 2/10/96	
D17-1-IV resubmitted For Kaitera	
Crustal partition	
Split Be + other isotopes	O'Nions