

D25

Start  
21°30.61 S  
179°44.50'S  
2580m

End  
21°30.10'S  
179°43.14 W  
6290

L3884-SP  
Cruise I.D: L5-83-HW

Sample Description  
Sample I.D: Sta: D25-41

Location: Lau Ridge

Size: 18x12x10cm Weight: 1.05kg

Mn crust thickness:

Total: min: 1cm max: 1.5cm ave: 1.2cm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: V. porous w/ nodules  
Somewhat botryoidal w/ minute botryoids

Internal structure:

- layered: \_\_\_\_\_
- laminated: \_\_\_\_\_
- massive: \_\_\_\_\_
- porous: extremely porous
- dendritic: \_\_\_\_\_
- other: \_\_\_\_\_

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

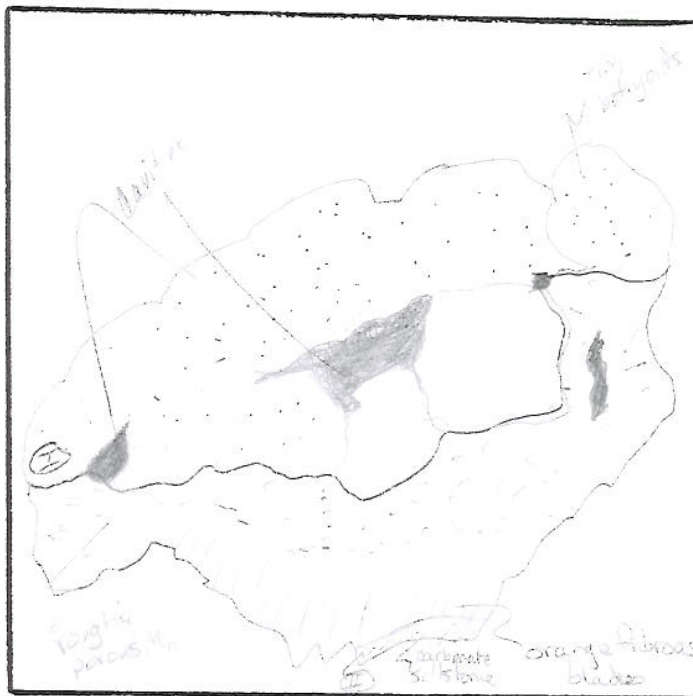
Fe oxide staining on crust

Substratum:

Rock type: Carbonate siltstone

Description: Thin porous Mn crust w/ a thin white carbonate nodules covering over 20% of surface. Substratum is white siltstone which is extremely disintegrated & cracked or fractured. One side of rock has long fibrous blades of ?? which are heavily stained (dark orange) w/ Fe oxides & are covered w/ Mn at the upper end.

Mineralogy (XRD):



Took whole sample

Analyses and subsamples:

analysis:

analyst:

XRD	C. Daniel
Fe Mn crust (0-1.5cm)	
Fe siltstone	
III orange fibrous blades	
Chem - bulk Mn (0-1.5cm)	U.S.G.S. Meade Park
D25-41 Bulk Sample for Hg	

carb: siltstone covered substrate

Crucian - parthian