DREDGE 27B
Cross-Chain
Smt. South

SAMPLE ID	Mn CHEM	Pt & Au	REE	Si Chem	P.Sect.	35mm Pho	Archive	Paleo					
D278-1	Bulk		Bulk		DPTS								

Sample Description

Cruise I.D: ~~L5-83-HW~~ MARIANA ISLANDS

Sample I.D: Sta: D 27B-1

Location: East Chain Seamount

Depth: 2290-1610m

Size: 22x12x6.5cm Weight: 1.36 Kg

Mn crust thickness:

Total: min: 6 max: 16 ave: 12mm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: Botryoidal w/deep cavities

Internal structure:

layered:
laminated:
massive:
porous: ✓
dendritic:
other: possibly Mn-sst/breccia

Mineralogy (XRD):

MARIANAS ISLANDS
D27B-1

ssociated alteration, phosphorite, or hydrothermal deposits:

Abundant worm tubes & forams

Substratum:

Rock type: Volcaniclastic Breccia

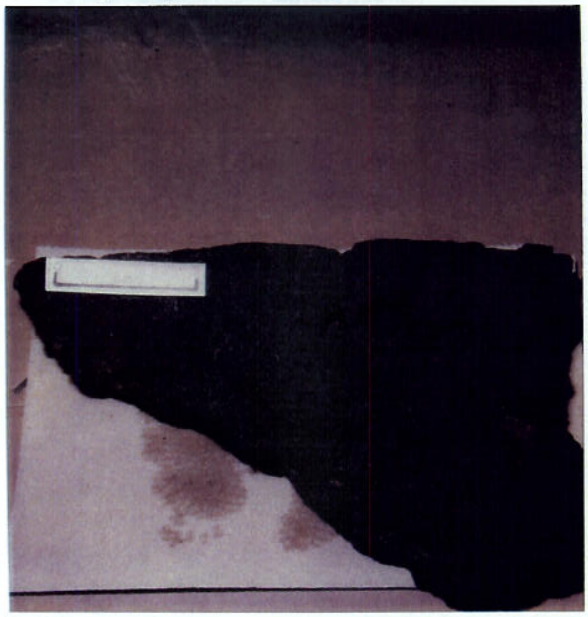
Description: Tan to green, black, subangular, poorly sorted, moderately packed & well indurated breccia w/ gray, black & white vesicular basalt clasts in a orange to tan slightly silty fine to med. grained sand matrix.

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:
XRD:	Charlaine
D27-1-I: bulk Mn	
D27-1-II: bulk substrate	
Chemistry:	
D27-1-A: bulk Mn - Manheim pkg	F. Brown Reston USGS
D27-1-A: bulk REE	Denver USGS
Doubly Polished Thin Section	Mann Fstra.
D27-1-B (resubmitted) for Hg Chemistry	

TOP VIEW



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