Petrographic Descriptions

Cruise ID TT192

Sample # D3-3

Stratabound oxide Layer ✓

Stratabound oxide-replaced Sandstone

Stratabound oxide-cemented Sandstone

Fe-Mn Crust

Mn Textures:

Dense
- Massive
- Laminated
  - Planar
  - Wavey

Colloform
- Columnar
- Laminated
- Aggregate Radial

Stockwork

[illegible] OR [illegible]

[illegible] radial [illegible] textures.

[illegible] usually w/ radial fibrous [illegible]

[illegible]

Fractures [illegible]

Crystal Form: Radial-fibrous Spherulitic Aligned Tabular Euhedral Void Fill

The aligned fibrous layers which are planchoic, have the look of being secondary or diagenetic features perhaps a slight increase in temperature recrystallized things

Dense layers and bubble columns are not just coalesced bubble columns

There are crystalline [illegible] dense [illegible] layers w/ [illegible] fibers (a cooling and growth band, or?)

Grain Supported - No, a few scattered detrital(?) grains

Cement Supported

Fracture Orientation

Fracture Fill

Porosity

Alteration and replacement of grains

Several opaque grains. SEM for chemistry [illegible] bubble columns

a few Round Structures, possibly replaced forams.

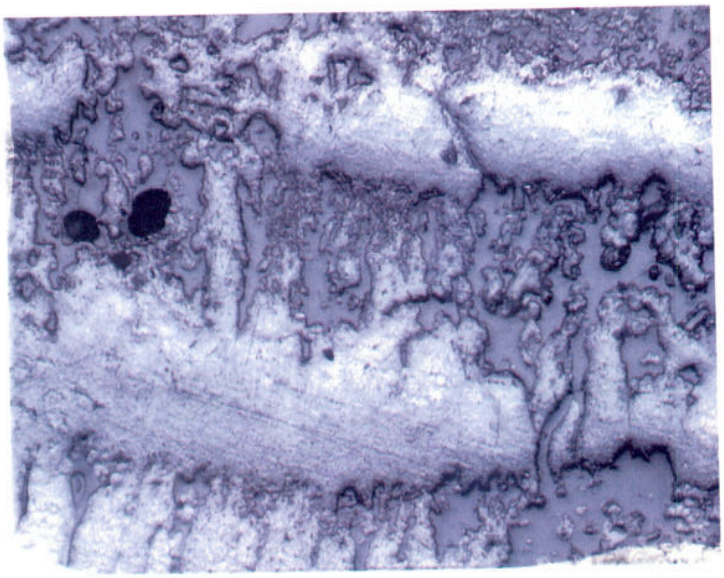
Photo(s) Taken of

SEM: Chemical changes between Massive types and perhaps between fracture [illegible]

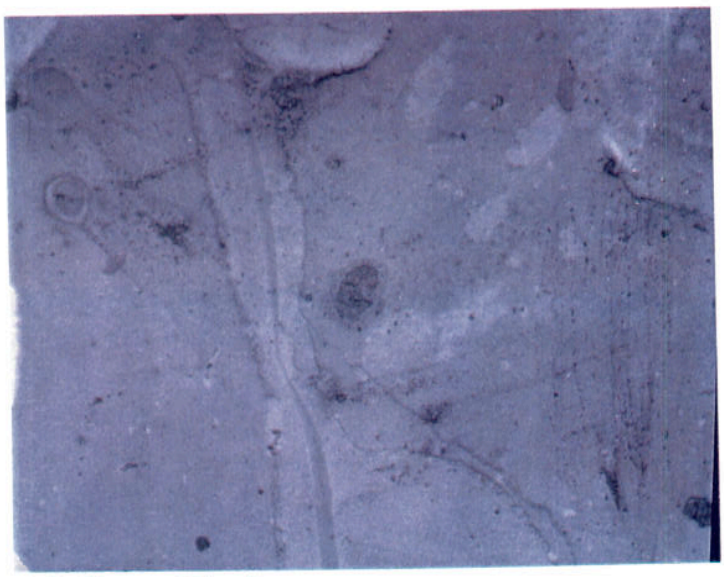
~~Microprobe~~ SEM: Detrital grains, are these replaced grains in the "pocket"

Grain Counts

	Unaltered	Altered
Volcanic Rock Fragments		
Volcanic Glass		
Mineral Grains		
Pyroxene		
Olivine		
Plagioclase		
K-spar		
Amphibole		
Quartz		
Others		
Microfossils		
Others		
Matrix		
Pore Space		
Mn Cement		
Other Cements		



10X10 PR.L D3-3



D3-3 20X10