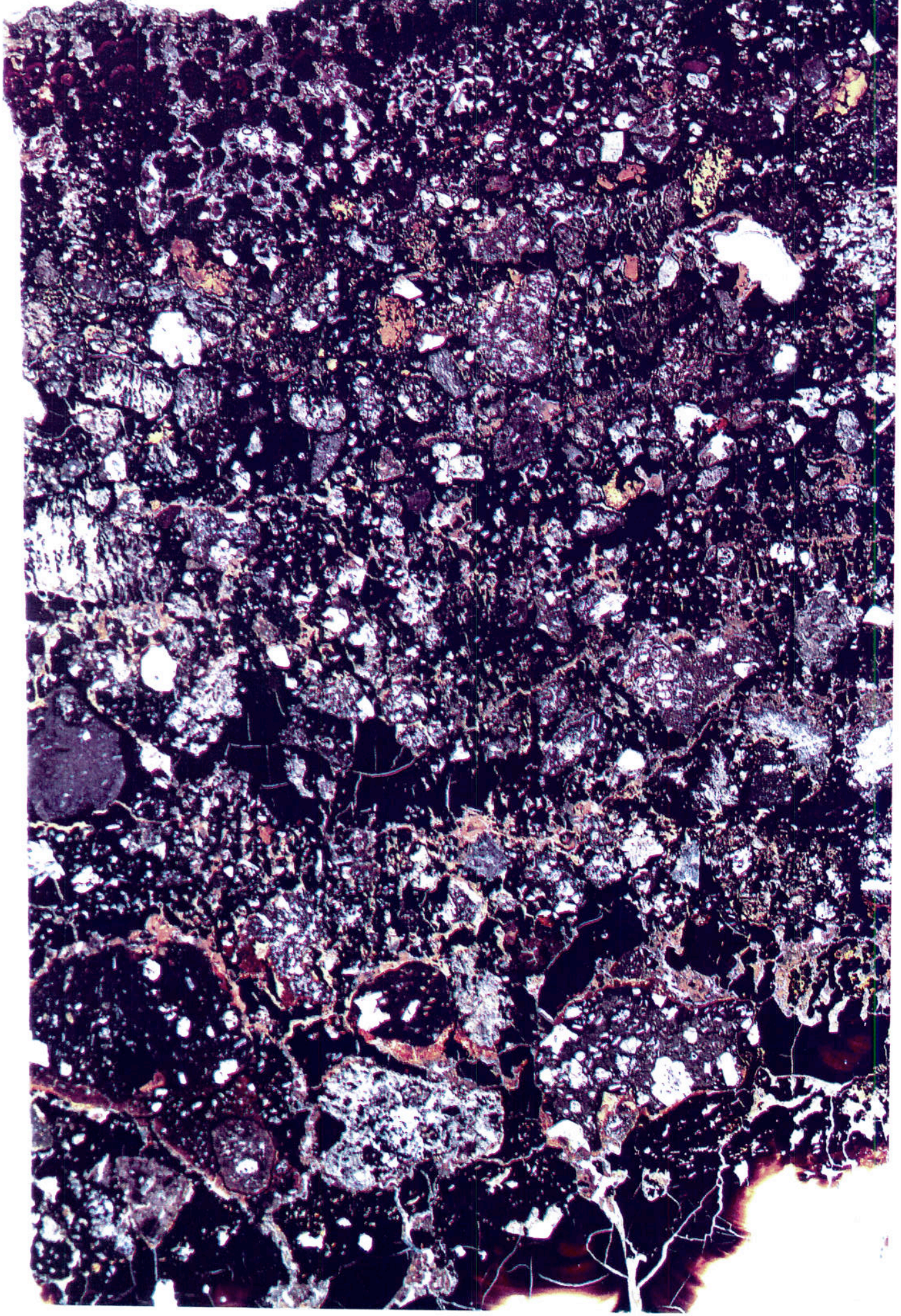
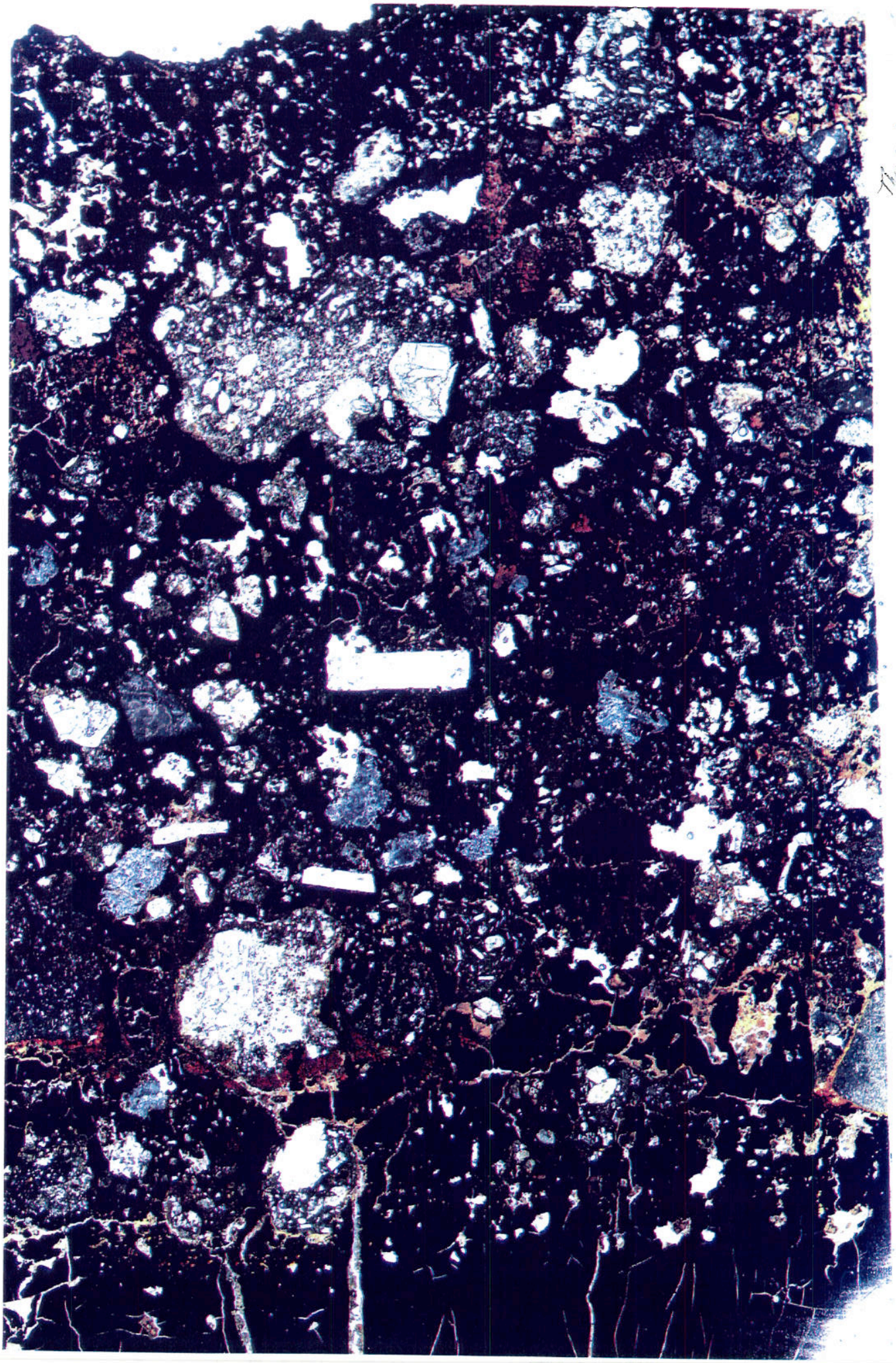
D25·2





Petrographic Descriptions

Cruise ID TT192

Sample # D28-2

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

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

Dense stratabound layer [illegible] at sediment interface which becomes 2) laminated Planar layers of varied thickness. All structures of the stratabound layer [illegible] aligned crystal fibers. The Planar layer thicks and thin this to [illegible] The next layer 3) [illegible] fibrous [illegible] zone that brainsus columnar and coalesces into laminae of planar layers. The thicker layers are just above the radial zone and become [illegible] away from the radial zone.

Grain Supported [illegible]

Cement Supported

Fracture Orientation

Fracture Fill

Porosity

Alteration and replacement of grains

Photo(s) Taken of Hydrothermal crust transition

SEM:

Microprobe

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		

Two [illegible] ground [illegible]

Transmit [illegible] Notes: Very Altered grains and fresh grains, clasts subangular to subrounded, some [illegible] clast most are volcaniclastic fragments of fairly large grain size, pebbles, Poorly sorted

VRF w/ palagonite (estado [illegible]) Rinds, very altered matrix (VRF?)

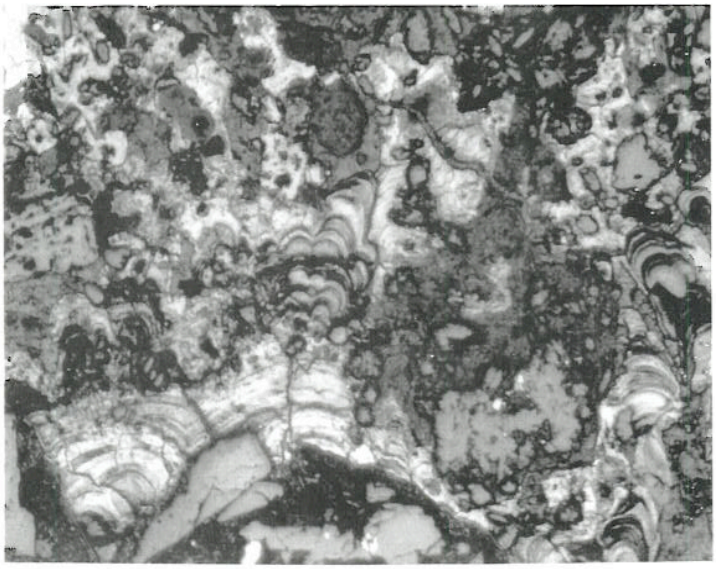
Fragments glassy volcanic tuff (?) being altered to zeolites (?);

a few Agg [illegible] rarams

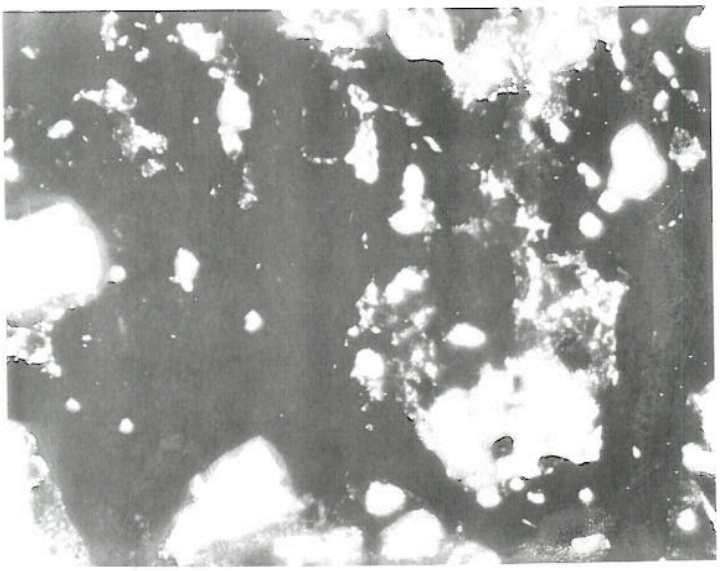
Here alteration ([illegible]) that is greater (on coarse grains) on the side closer to [illegible] Mn layer.

[illegible] (?) [illegible] well [illegible] with silica cement [illegible] to [illegible] where [illegible]

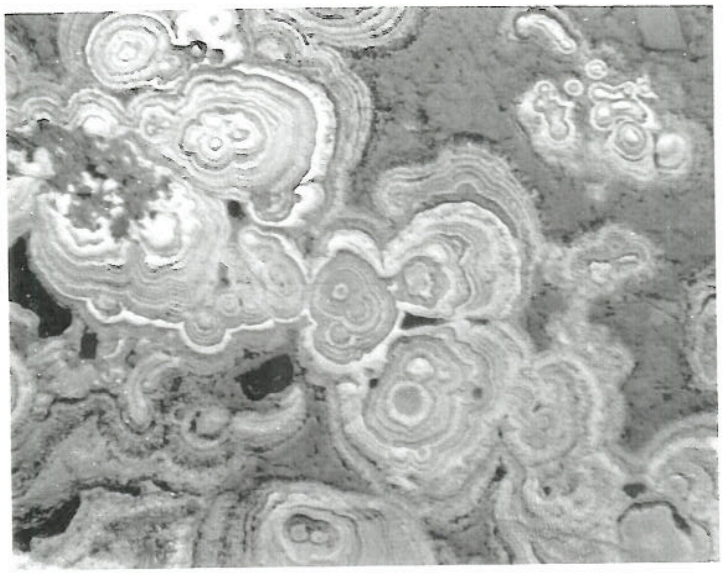
Rarely [illegible] Epidote: Opaques in [illegible]



5×10 P.R.L. D28-2



5×10 P.T.L. D28-2



20×10 P.R.L. D28-2