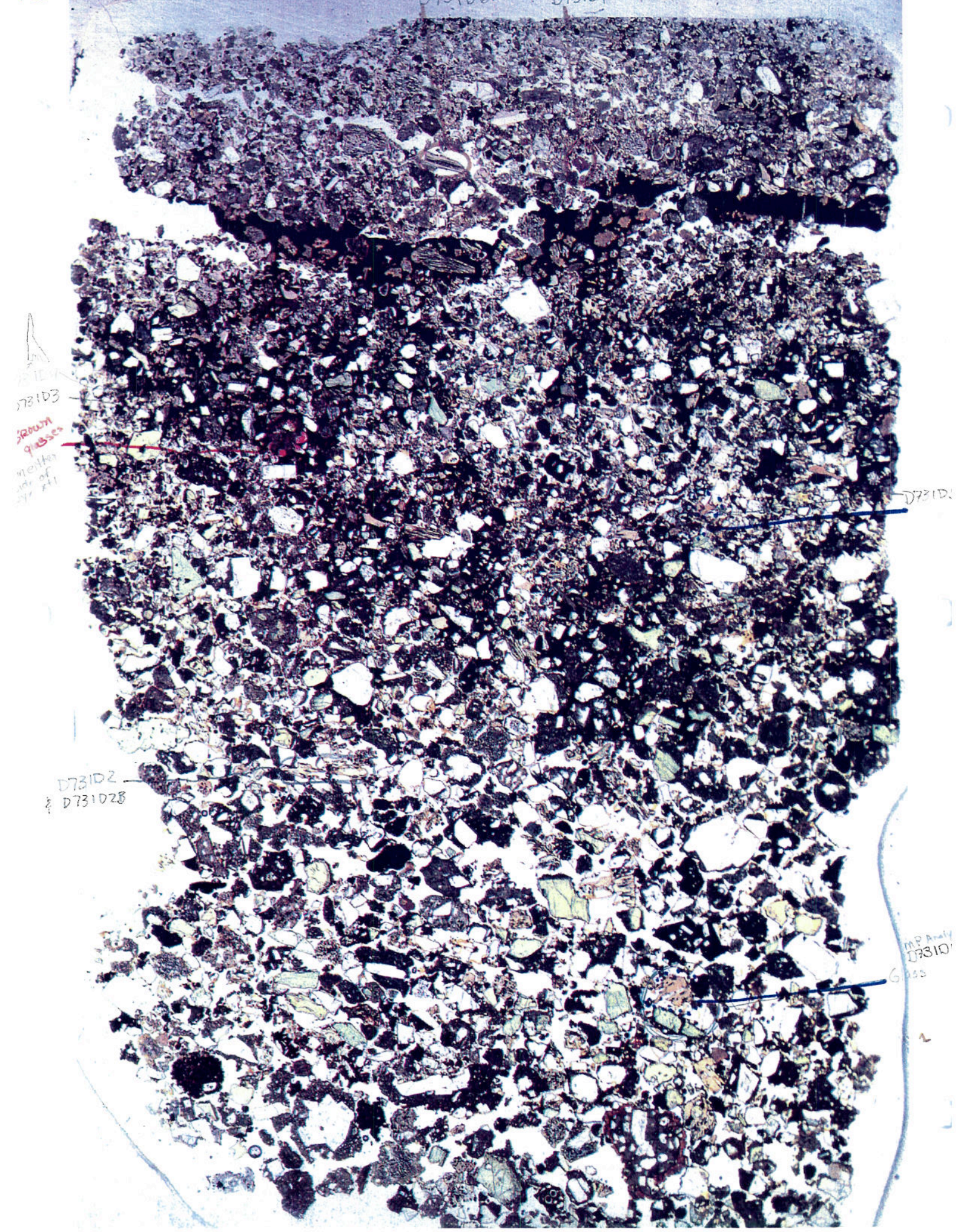
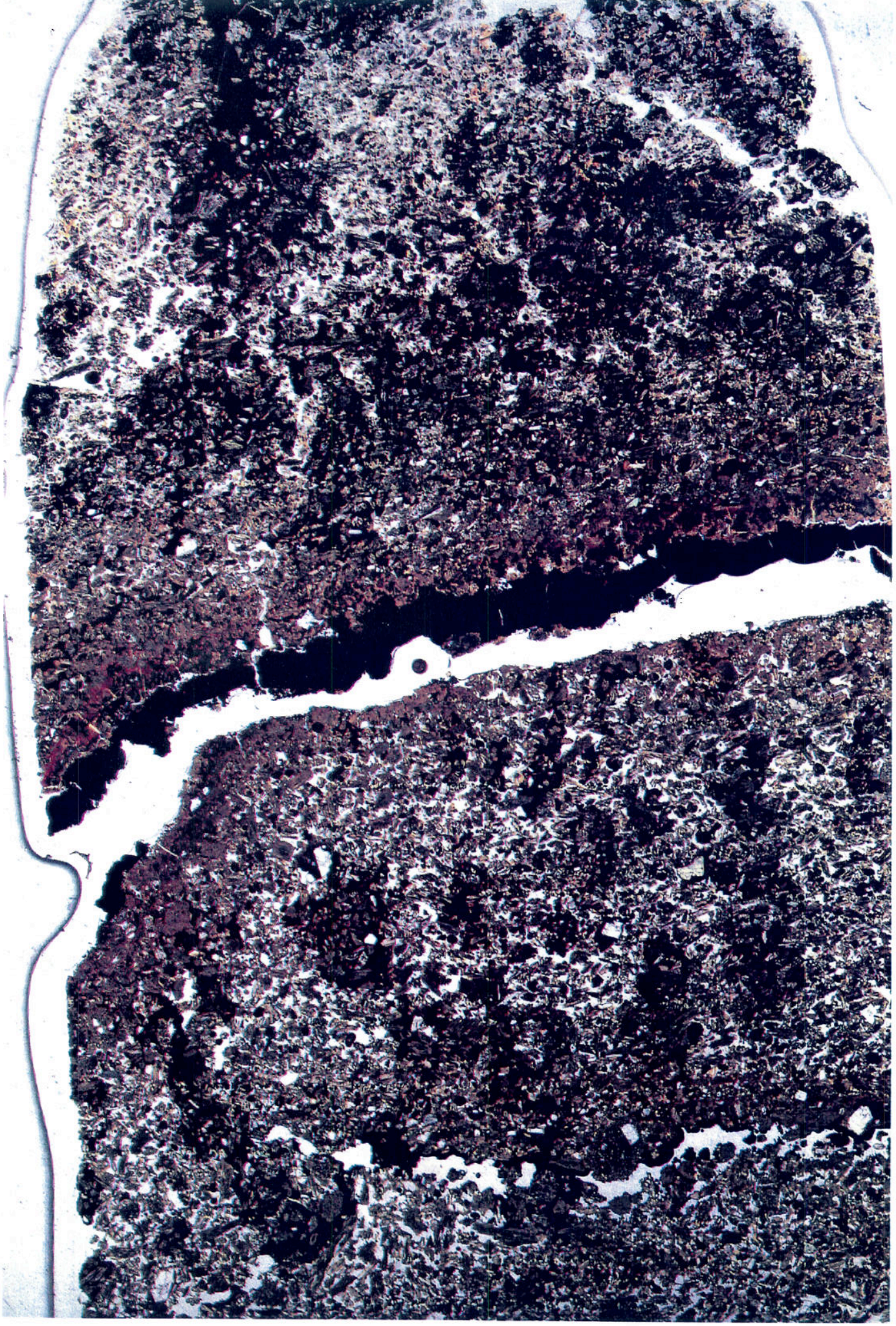

D731D3
D731D2
& D731D28



D73-1D

Petrographic Descriptions

Cruise ID TT192

Sample # D'13-1D

2 overlapping sections

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

The mineralogy of this sample is mostly Colloform, radial, fibrous with very little of the spherulitic stuff. (Due to grain size or Glass alteration?)

Grain Supported

Cement Supported

Fracture Orientation

Fracture Fill

Porosity

Alteration and replacement of grains In areas of Celadonite alteration V. Glass, VRF (mineral) grains are replaced in what seems to be a greater percentage by Mn. The grains are often outlined by a brighter rim in Reflected light. The coarse grained sand (Top of 1st slide) has replaced grains not in contact w/ Mn cement. There is a group of Colloform and Radial Celadonite w/ Mn coating it 1st Slide an opaque which reflects ~~orange~~ Pale (yellow-orange) not pleochroic. Mn surrounds it Near top, (By color looks like a Sulfide?) (inspection w/ hydrothermal layer)

Photo(s) Taken of

SEM: Hydrothermal Layer w/ Fibers

Microprobe

VRF = glass w/ [illegible]

Grain Counts

	Unaltered	Altered
56	Volcanic Rock Fragments ||||| |||||				