B: Sequence of Events, Analysis of Metal Corrosion

Parts from each mine are photographed

Surface corrosion of metal parts is documented using binocular microscope

Parts are sectioned using a slow-speed diamond saw

Cut surface is polished with diamond paper to expose cross-section

Cross-section is photographed

Cross-sectional area lost to corrosion (for pins) is quantified using Google Sketchup

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28 All photos by EJ Estes and Dr. Liz Johnson, except for the image of the SEM, which was taken by Dr. Lance Kearns.
Samples are mounted on carbon-coated Scanning Electron Microscopy mounts.

Textures and qualitative compositions of metal parts and materials produced by corrosion are analyzed using the Scanning Electron Microscope at JMU.

Samples are archived in labeled boxes.