Copper Cliff is the name of both a ghost town and a small mining district, 30 miles ESE from Missoula, MT. Previous mining activity, which took place from the 1870's into the 1950's, concentrated on near-surface, high-grade breccia pipes that were mineralized with Cu oxidation products and sulfosalts. Today, Kennecott Exploration and Rio Tinto Exploration are exploring the area for a deep, high-tonnage Cu-Au porphyry system, hypothesized to exist as a driver for the shallower epithermal mineralization. Present activity consists of deep drilling and subsequent detailed core logging. A research project is currently underway with the aim of studying clay mineral distribution as a vector to drill targets.