

Surface Geologic Mapping Proposal

By Mack Croft

This proposal is to make surface geologic maps of the Johnson Pass and Terra Quadrangles by contracting with the Utah Geological Survey. The Johnson Pass Quadrangle consists of block and thrust faulted lower Paleozoic rocks, that were in part mapped as an M.S. thesis for BYU, in the 1950's before topographic maps were available in the area. The North East quarter of the Terra Quadrangle is underlain with an extension of the Paleozoic rocks and older fanglomerates that are recently faulted. Some of the springs in the Johnson Pass quad have been sampled for the major constituents, but have not been sampled for the radio active elements.

Geologic mapping of the area rocks is needed because the Onaqui and Stansbury ranges are an important watershed that supply several large springs used for irrigation and culinary purposes. The west side of the ranges is proposed for a nuclear storage area.