UTAH INTERNATIONAL - SPRINGER PROJECT

GEOLOGIC MAP OF THE TUNGSTEN (MILL CITY) AREA

EUGENE MOUNTAINS, PERSHING COUNTY, NEVADA

Tertiary (?) andesite to rhyodacite dikes & dills

Cretaceous granitic rocks. Predominantly unaltered, equigranular, biotite-white-quartz-biotite, quartz diorite to granodiorite with lesser amounts of quartz monzonite. Minor masses and dikes of aplite and pegmatite. Occasional pyrite-chalcopyrite-molybdenite-scheelite bearing quartz veins. Aplite masses altered

Upper Triassic Raspberry Formation, in map area, composed of siltstone, fine wackeforms and limestone, most mostly thermally metamorphosed to hornfelsic equivalents. Limestone and calcareous sandstones locally hydrothermally altered to scheelite bearing skarns. Thicker limestone rich horizons stippled.

mainly dark brown garnet-bearing biotite and olive dark green epidote-bearing biotite; mapped approximately

mainly light green to light red garnet-bearing biotite, and olive light green to dark olive-brown biotite; mapped approximately

quartz vein

irregular to thin (usually less than 0.5 m thick) predike replacement zone of quartz, garnet, epidote & scheelite

contact; exposed or partly exposed where solid, inferred where dashed

fault; exposed or partly exposed where solid, inferred where dashed

attitude of normal bedding

attitude of overturned bedding

breccia

mine workings

sample location of X-ray map (dots) mineral dated and date (Tingley, 1978)

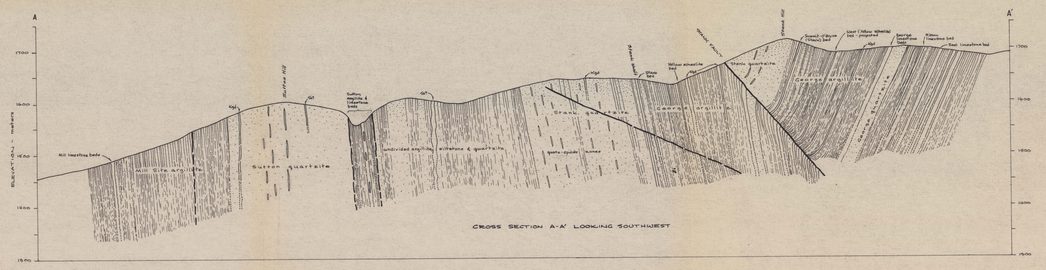
sample location (not number of whole rock analysis); drill hole samples plotted as vertical projections (Miller, 1977)

Geology by Bruce M. Miller, consulting mining geologist; compiled from 1:48M scale mapping by Miller, Aug.-Sep. 1977

Topography by Air Photo and Global Engineering aerial photo data, October 1975

Geologic survey control by John Crawford and David Miller

Drafted by: TWM, MJC-TTR


A
A'
Sutton quartzite
Spring Mountain
Quartz-epidote zone
Mill Site argillite
Mill Site argillite
Sutton quartzite
Spring Mountain
Quartz-epidote zone