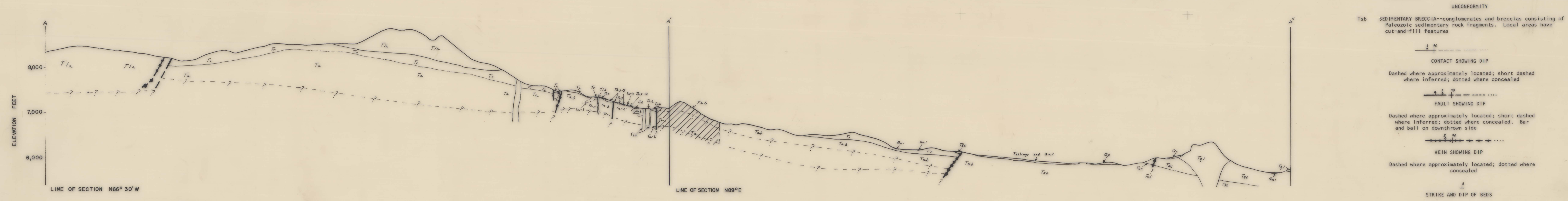
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

U.S. GEOLOGICAL SURVEY OPEN FILE MAP

SILVER PEAK RANGE, NEVADA
FOR GEOLOGIC DIVISION - BRANCH OF HEAVY METALS
COMPILED ON B-8 PLOTTER 12/68
COMPILATION SCALE 1:6000 C.I. 20'
COLOR PHOTOGRAPHY - F. H. 10,000
FLOWN 6/19/68 6" F. L. CAMERA
5000 FOOT GRIDS BASED ON NEVADA WEST ZONE



PRELIMINARY GEOLOGIC MAP OF THE RED MOUNTAIN MINING DISTRICT, NEVADA

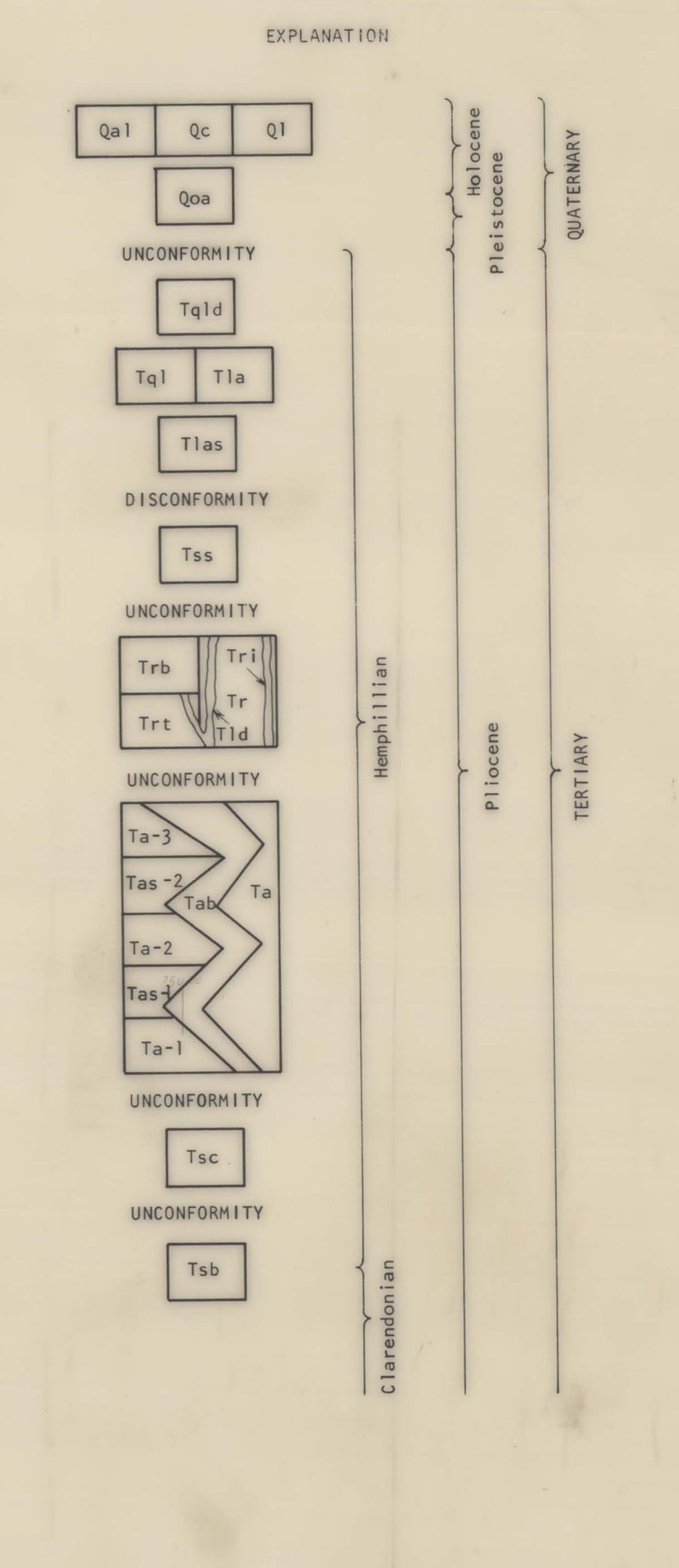
by

W. J. Keith

1972

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey standards and nomenclature.

EXPLANATION



DESCRIPTION OF UNITS

Qal ALLUVIUM--silt, sand, gravel, and locally boulders

Qc COLLUVIUM--angular debris ranging in size from boulders to gravel

Ql LANDSLIDE DEBRIS--consists mainly of boulders and cobbles of Tql, Tla, Tss, and Tsc

Qoa OLDER ALLUVIUM--stratified sands and gravels which have been dissected by the present drainage system

UNCONFORMITY

Tqld QUARTZ LATITE DIKE--porphyritic biotite quartz latite

Tql QUARTZ LATITE--porphyritic biotite quartz latite flow. Mineralogically similar to Tqld

Tla LATITE--porphyritic biotite-augite latite lava flows and ash-flow(?) tuffs

Tlas LATITIC TUFFACEOUS SEDIMENTS--tuffaceous sediments with a few thin calcareous shale interbeds grade upward into Tla

DISCONFORMITY

Tss LIMESTONE-SHALE-TUFF--thin-bedded limestone at the base overlain by a series of interbedded shales, siltstones, sandstones, and pebble conglomerates. These interbeds range in thickness from a fraction of an inch to a few feet

UNCONFORMITY

Trb RHYOLITE BRECCIA--fragments of rhyolite, andesite, and minor amounts of Paleozoic sedimentary rock. The fragments range in size from microscopic to as much as 30 feet in diameter

Trt RHYOLITE TUFF--lithic ash-flow tuff locally reworked by water

Tri INTRUSIVE RHYOLITE-- flow-banded rhyolite. Forms elongate ridges; has a thin alteration envelope extending into surrounding rock

Tld LATITE DIKES--biotite latite which intrudes all of the units stratigraphically below Trb

Tr RHYOLITE--undifferentiated rhyolite flows, tuffs, and breccias

UNCONFORMITY

Ta-3 PORPHYRITIC ANDESITE--porphyritic andesite and basalt flows

Tas-2 ANDESITIC SEDIMENTS--fine to coarse water-worked sand and gravel of andesitic composition

Ta-2 APHANITIC ANDESITE--andesite characterized by amygdules up to 1/4 inch in diameter filled by quartz and calcite

Tas-1 ANDESITIC SEDIMENTS--fine to coarse water-worked sand and gravel of andesitic composition. Similar to Tas-2

Ta-1 PORPHYRITIC ANDESITE--porphyritic andesite and basalt flows similar in composition to Ta-3

Tab ANDESITE BRECCIA--fragments of andesite, rhyolite, and minor amounts of Paleozoic sedimentary rock fragments. The fragments range greatly in size and relative quantity locally. This unit interfingers with Ta-3, Tas-2, Ta-2, Tas-1, and Ta-1. Line pattern indicates area of strong alteration due to many small rhyolite intrusions

Ta ANDESITE--undifferentiated basalt, andesite, andesite breccia, and andesitic sediments

UNCONFORMITY

Tsc PEBBLE CONGLOMERATE--volcanic siltstone, sandstone, and pebble conglomerate, and lenses of Paleozoic sedimentary-clast conglomerates

UNCONFORMITY

Tsb SEDIMENTARY BRECCIA--conglomerates and breccias consisting of Paleozoic sedimentary rock fragments. Local areas have cut-and-fill features

CONTACT SHOWING DIP

Dashed where approximately located; short dashed where inferred; dotted where concealed

FAULT SHOWING DIP

Dashed where approximately located; short dashed where inferred; dotted where concealed. Bar and ball on downthrown side

VEIN SHOWING DIP

Dashed where approximately located; dotted where concealed

STRIKE AND DIP OF BEDS

STRIKE AND DIP OF FLOW LAYERING

STRIKE AND DIP OF FRACTURES

ALTERED Tsb