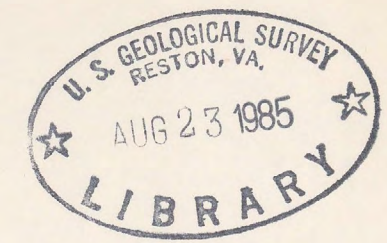


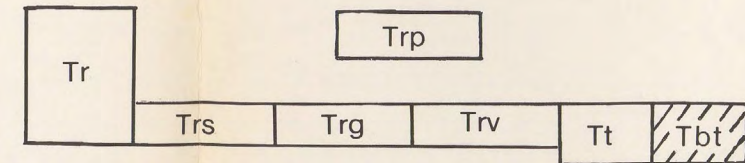
(200)
R290
no. 85-452



EXPLANATION

Qac
ALLUVIUM AND COLLUVIUM
Silt, sand, gravel and talus

unconformity



- Tr RHYOLITE OF PINE - Dense, red-brown, strongly flow-layered and auto-brecciated rhyolite
- Trs GRAY RHYOLITE OF THE STEAMBOAT MOUNTAIN FORMATION - Gray to light purple, weakly flow-layered rhyolite; includes aphyric gray rhyolite, flow-layered rhyolite with 10% phenocrysts and a phenocryst-rich (up to 35%) rhyolite; phenocrysts include quartz, sanidine, and plagioclase; locally contains abundant lithophysae and vugs
- Trg GREEN GLASS - Vertically flow-layered, partially hydrated and devitrified green glass; age relationship with other rhyolitic rocks uncertain
- Trv GLASSY MARGIN OF THE STEAMBOAT MOUNTAIN FORMATION - Gray to black, phenocryst-rich basal or marginal vitrophyre, locally containing an ash-flow tuff unit
- Tr STEAMBOAT MOUNTAIN FORMATION - undivided rhyolite units
- Tt SILICIC CLASTIC ROCKS - Buff to pink, pyroclastic and epiclastic rocks consisting of a heterogeneous sequence of weakly welded ash-flow and airfall tuffs; locally contains slope wash and reworked water-deposited epiclastic rocks; mostly underlies rhyolite flow rocks, but is locally inter-fingered with them
- Tbt VENT BRECCIA - Tan breccia made up of angular fragments of green glass and pumice up to 1.3 cm in diameter. Age relationship not clear

unconformity

Ta
ANDESITE
Red-brown felsitic matrix with plagioclase and pyroxene phenocrysts

Tcb

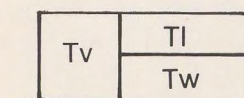
BAUER TUFF MEMBER OF THE CONDOR CANYON FORMATION
Gray, buff and lavender firmly welded ash-flow tuff with plagioclase and sanidine and biotite phenocrysts

Tha

HORNBLENDE ANDESITE
Gray, phenocryst-poor to aphyric andesite with hornblende and lesser augite

Ti

ISOM FORMATION
Densely welded, red-brown ash-flow tuff with plagioclase and minor pyroxene



- Ti LUND TUFF - Crystal-rich ash-flow tuff with quartz, biotite, and minor hornblende
- Tw WAH WAH SPRINGS TUFF - Crystal-rich ash-flow tuff with abundant plagioclase, hornblende and biotite and less than 25% quartz phenocrysts
- Tv NEEDLES RANGE GROUP: UNDIVIDED - includes formations in the Needles Range Group

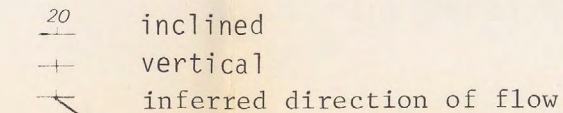
P

PALEOZOIC SEDIMENTARY ROCKS
Undivided marine and continental sedimentary rocks

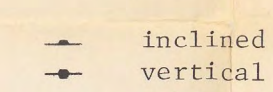
Contact - dashed where approximately located; queried where uncertain

Fault - dashed where approximately located; dotted where concealed. U, upthrown side; D, downthrown side

Strike and dip of flow-banding and bedding:



Strike and dip of joints:

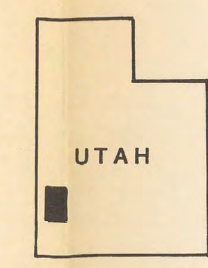
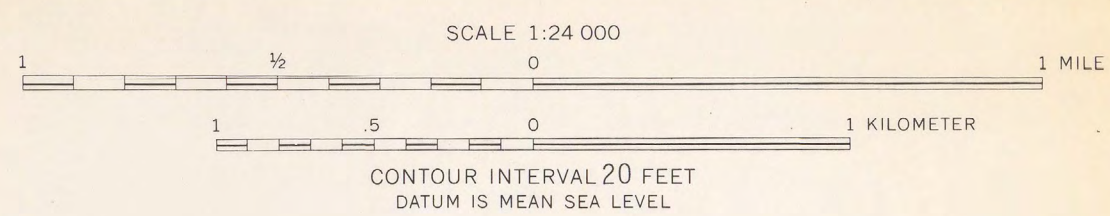


• Approximate location of tin vein

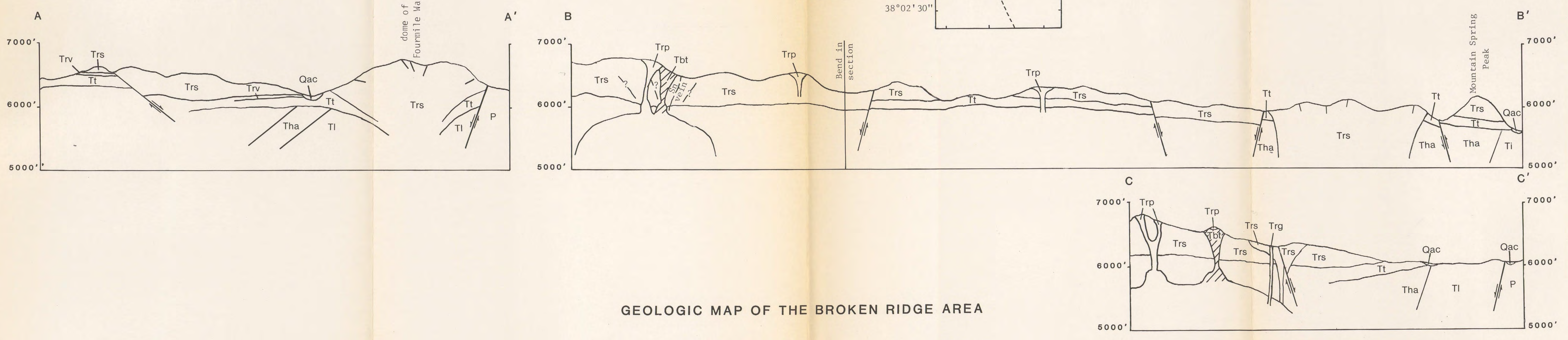


Base from U.S. Geological Survey Mountain Spring Peak, Utah., 1972 Bible Spring, Utah., 1971

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



Geology by Duttweiler and Best (1979), Griffiths and Best and Davis (1981), 1984



GEOLOGY AND GEOCHEMISTRY OF THE BROKEN RIDGE AREA, SOUTHERN WAH WAH MOUNTAINS, IRON COUNTY, UTAH

By Karen A. Duttweiler

1985