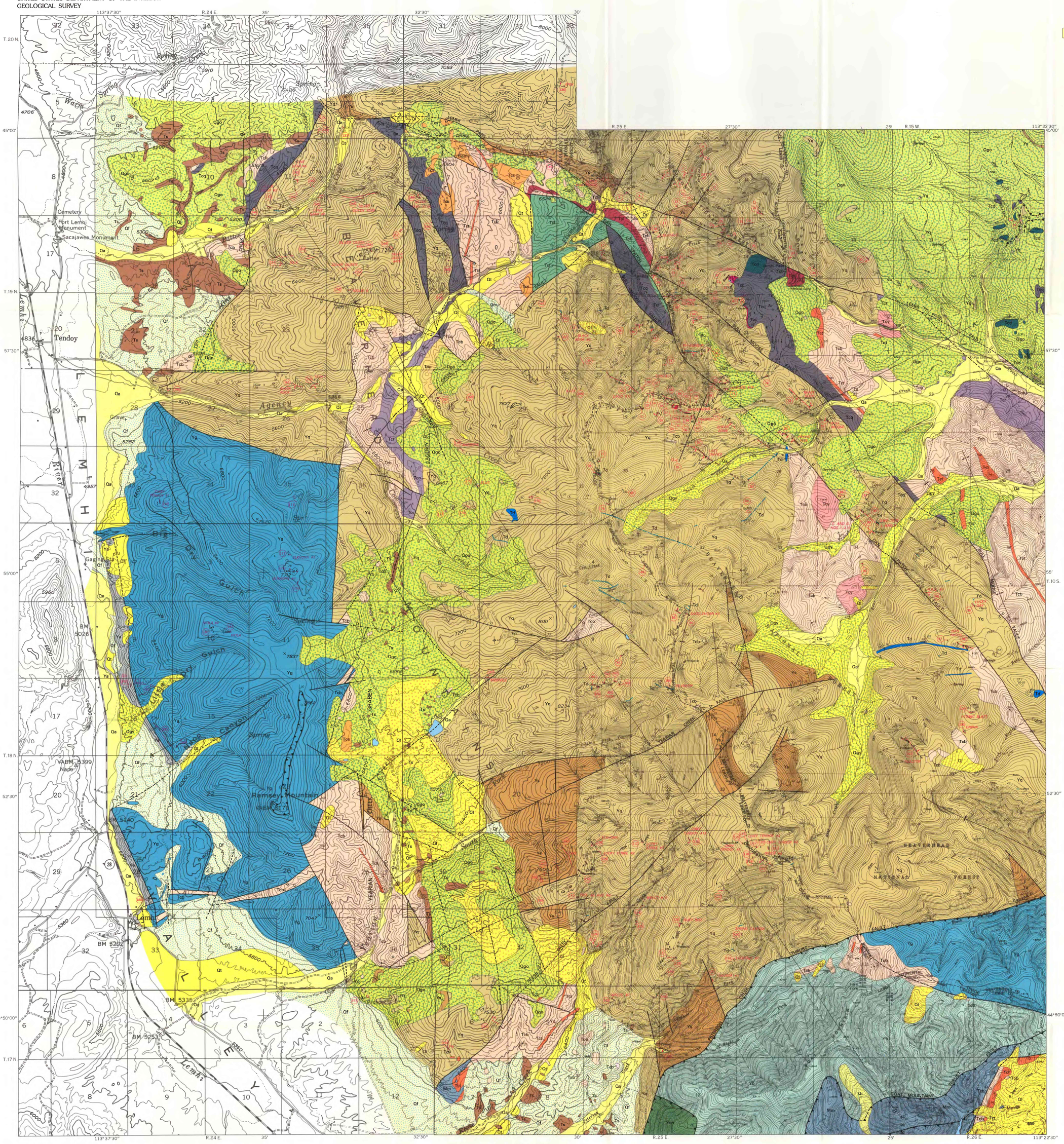


Base from U.S. Geological Survey Lemhi Pass and Goat Mountain quadrangles, 1:24,000 1965; and Lemhi Pass and Goldstone Mountain quadrangle, 1:62,500, 1956

Roads modified by M. H. Staatz, 1974

APPROXIMATE MEAN DECLINATION, 1979

SCALE 1:31 680

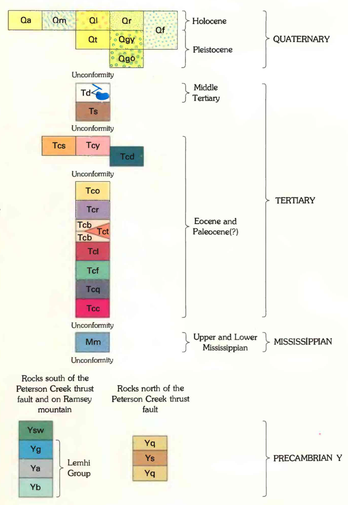
1 ½ 0 1 MILE

1 .5 0 1 KILOMETER

CONTOUR INTERVAL IS 40 FEET IN EASTERN PART AND 80 FEET IN WESTERN PART
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Geology mapped by M. H. Staatz, 1967–1974; assisted by E. E. Loeb, 1967, D. R. Packer, 1968, R. A., Langford, 1969, and E. C. Grimm, 1970

CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

- Qa — ALLUVIUM (HOLOCENE)
- Qm — MUD FLOW (HOLOCENE)
- Ql — LANDSLIDE DEPOSITS (HOLOCENE)
- Qr — ROCK GLACIER (HOLOCENE)
- Qf — ALLUVIAL FANS (HOLOCENE AND PLEISTOCENE)
- Qt — TERRACE DEPOSITS (PLEISTOCENE)
- Qgy — YOUNGER GLACIER DEPOSITS (PLEISTOCENE)
- Qgo — OLDER GLACIER DEPOSITS (PLEISTOCENE)
- Td — DIORITE (MIDDLE TERTIARY)
- Ts — TUFFACEOUS SEDIMENTARY ROCKS (TERTIARY)

CHALLIS VOLCANICS (EOCENE AND PALEOCENE?)

- Tcs — Sanidine-quartz welded tuff
- Tcy — Younger basalt
- Tcd — Quartz latite
- Tco — Flow-breccia unit
- Tcr — Tuff of Curtis Ranch
- Tcb — Basalt-rhyodacite sequence
- Tct — Rhyolitic tuff beds
- Tcl — Vitric tuff of Lemhi Pass
- Tcf — Conglomerate of Flume Creek
- Tcq — Quartzite-bearing rhyolite tuff
- Tcc — Basal conglomerate
- Mm — MADISON LIMESTONE (UPPER AND LOWER MISSISSIPPIAN)
- Mm — Silicified unit—Stippled pattern indicates area where limestone is totally replaced by chert

ROCKS SOUTH OF THE PETERSON CREEK THRUST FAULT AND ON RAMSEY MOUNTAIN

- Ysw — SWAUGER FORMATION (PRECAMBRIAN Y)
- Yg — GUNSIGHT FORMATION (PRECAMBRIAN Y)
- Ya — APPLE CREEK FORMATION (PRECAMBRIAN Y)
- Yb — BIG CREEK FORMATION (PRECAMBRIAN Y)

ROCK NORTH OF THE PETERSON CREEK THRUST FAULT (PRECAMBRIAN Y)

- Yq — QUARTZITE
- Ys — SILTITE

CONTACT—Approximately located; dashed where concealed

FAULT—Showing dip; approximately located; dashed where concealed. U, upthrown side; D, downthrown side

THRUST FAULT—Approximately located; dashed where concealed. Sawteeth on upper plate

ANTICLINE—Showing position of axial plane; dashed where approximately located

SYNCLINE—Showing position of axial plane; dashed where approximately located

STRIKE AND DIP OF BEDS

- Inclined
- Horizontal

STRIKE AND DIP OF FLOW OR FRACTURE CLEAVAGE

STRIKE AND DIP OF FLOW BEDDING

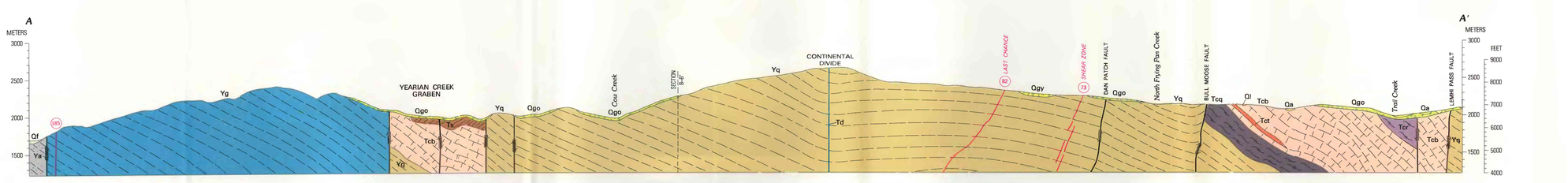
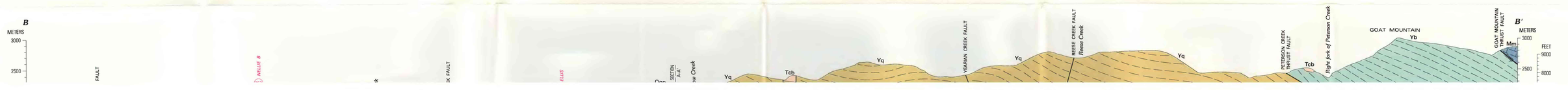
LONG TRENCH

PIT OR SHORT TRENCH

ADIT

SHAFT

LOCALITY NUMBER OF VEIN. See tables

VEIN—Showing dip. Dashed where approximately located

- Th — Thorium
- Cu — Copper
- Q — Quartz
- Fe — Iron vein