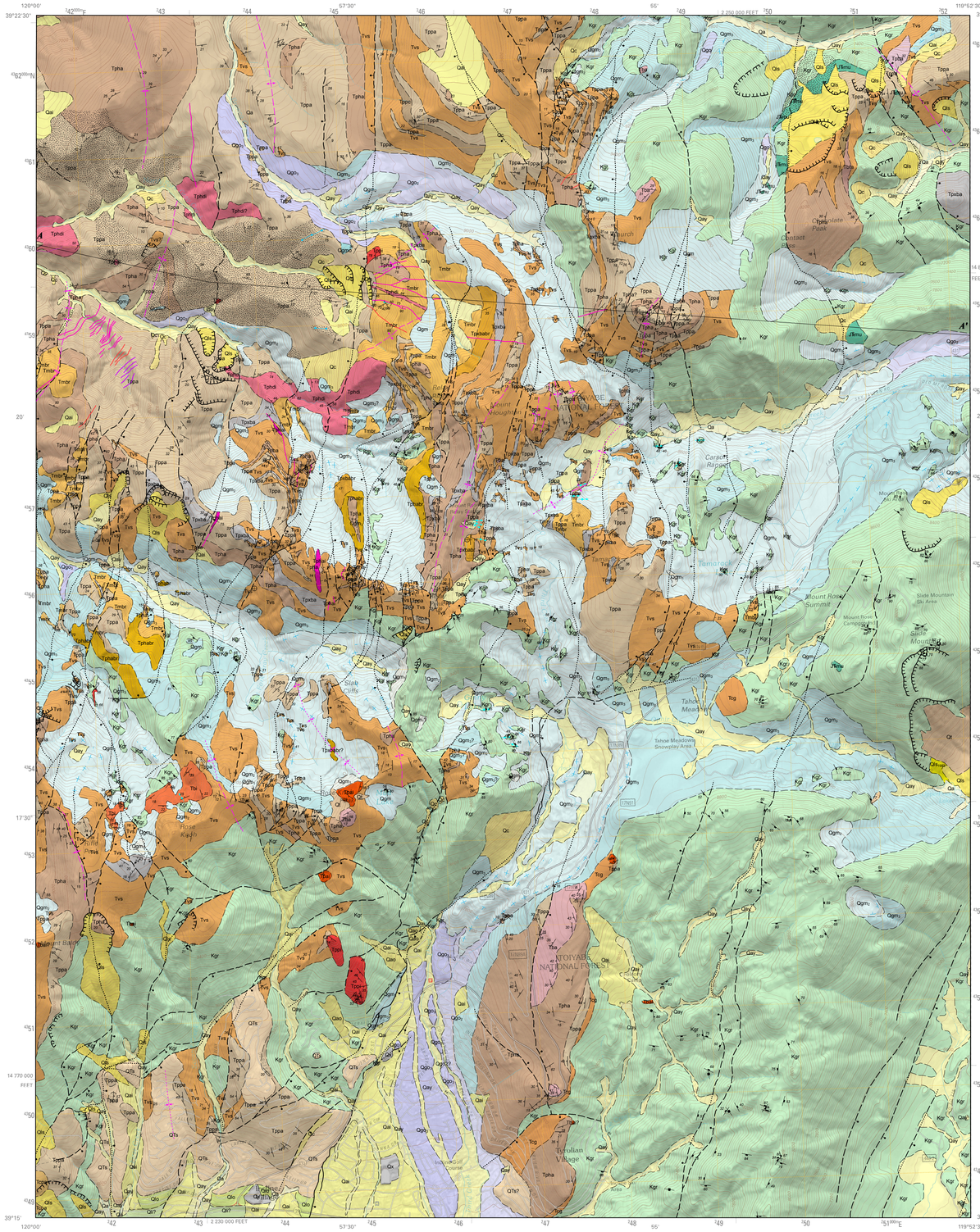


QUATERNARY DEPOSITS

- Qx — Disturbed areas and fill (Historic)
- Qa — Alluvial deposits in recently active washes (late Holocene to Historic)
- Qay — Young alluvial deposits (latest Pleistocene to Holocene)
- Qai — Intermediate-aged alluvial deposits (late Pleistocene)
- Qao — Older alluvial deposits (middle Pleistocene)
- Qgm — Undivided glacial moraine deposits (late Pleistocene)
- Qgm_y — Young glacial deposits (Holocene)
- Qgm_3 — Glacial deposits (late Pleistocene)
- Qgm_2 — Glacial deposits (late Pleistocene)
- Qgmo — Older glacial deposits (middle Pleistocene)
- Qgo — Undivided glacial outwash deposits (late Pleistocene)
- Qgo_y — Glacial outwash deposits (late Pleistocene)
- Qgo_2 — Glacial outwash deposits (late Pleistocene)
- Qli — Lacustrine deposits (late Pleistocene)
- Qlo — Lacustrine deposits (Pleistocene)
- Qls_{hist} — Landslide deposits (Historic)
- Qls — Landslide deposits (late Pleistocene to Holocene)
- Qc — Colluvial deposits (late Pleistocene to Holocene)
- Qt — Talus deposits (Holocene)
- QTs — Older alluvial deposits (Pliocene to early Pleistocene)

TERTIARY VOLCANIC AND SEDIMENTARY ROCKS (Miocene)

- Tpba — Platy plagioclase porphyritic basaltic andesite
- Tha — Hornblende porphyritic andesite
- Tcpa — Coarse-grained plagioclase-hornblende porphyritic andesite
- Tppc — Coarse-grained plagioclase-hornblende porphyritic andesite
- Tppa — Plagioclase-pyroxene porphyritic andesite
- Tba — Sparsely porphyritic basaltic andesite
- Tpxba — Pyroxene-plagioclase porphyritic basaltic andesite
- Tpxbabr — Pyroxene-plagioclase porphyritic basaltic andesite breccia
- Tpha — Plagioclase-hornblende-pyroxene porphyritic andesite
- Tphabr — Plagioclase-hornblende-pyroxene porphyritic andesite breccia
- Td — Plagioclase-biotite porphyritic dacite(?)
- Tbta — Plagioclase-pyroxene porphyritic basaltic trachyandesite
- Tmbr — Mafic breccia
- Tb — Sparsely porphyritic basalt
- Tvs — Volcanic sedimentary rocks
- Tcg — Conglomerate

TERTIARY INTRUSIVE ROCKS AND VEINS (Miocene)

- Tqv — Quartz veins
- Tui — Intrusive rocks, undivided
- Tphdi — Youngest plagioclase-hornblende-pyroxene porphyritic dacite
- Tphdi — Plagioclase-hornblende-pyroxene porphyritic dacite
- Tphai — Plagioclase-hornblende-pyroxene porphyritic andesite
- Tppi — Plagioclase-pyroxene porphyritic andesite
- Tbai — Basaltic andesite
- Tbi — Basalt

MESOZOIC BASEMENT

- Kgr — Undivided granitic plutons(?)
- JTrmu — Undivided metamorphic roof pendants

See accompanying text for full unit descriptions and references for this map.

Symbology (per FGDC-STD-013-2006)

Contact Solid where certain and location accurate, dashed where approximate.

Normal fault Solid where certain and location accurate, dashed where approximate, dotted where concealed; queried if identity or existence uncertain. Ball on downthrown side.

Anticline Long-dashed where approximate; dotted where concealed. Arrow shows direction of dip.

Syncline Long-dashed where approximate, dotted where concealed. Arrow shows direction of dip.

Head or main scarp of landslide Solid where certain, dashed where inactive, subdued, indistinct and (or) approximate. Hachures point downscarp.

Crest line of symmetrical moraine

Crest line of asymmetrical moraine Tics point down steeper slope

Quartz vein Solid where certain and location accurate.

Dike

Strike and dip of bedding Inclined; Horizontal

Strike and dip of joints Inclined; Vertical

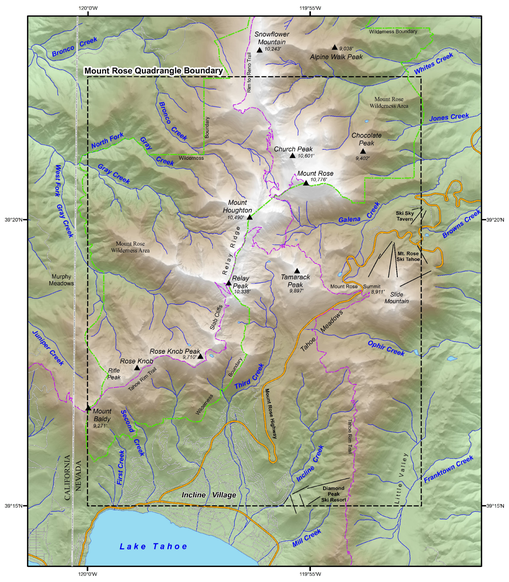
Strike and dip of metamorphic foliation Inclined

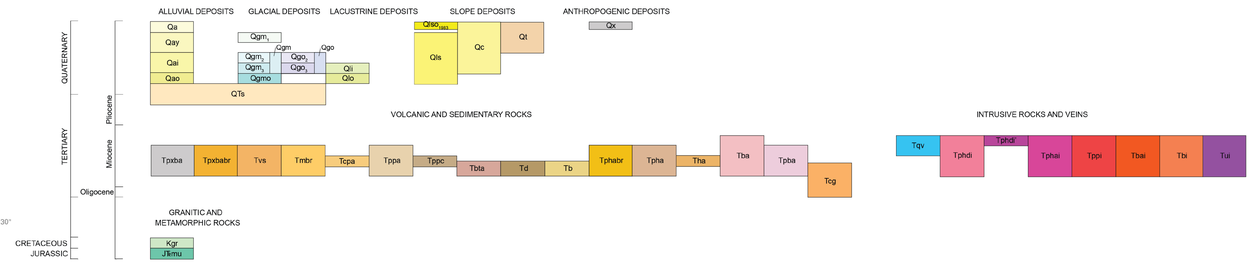
Strike and dip of flow banding or flow foliation in volcanic rocks Inclined; Vertical

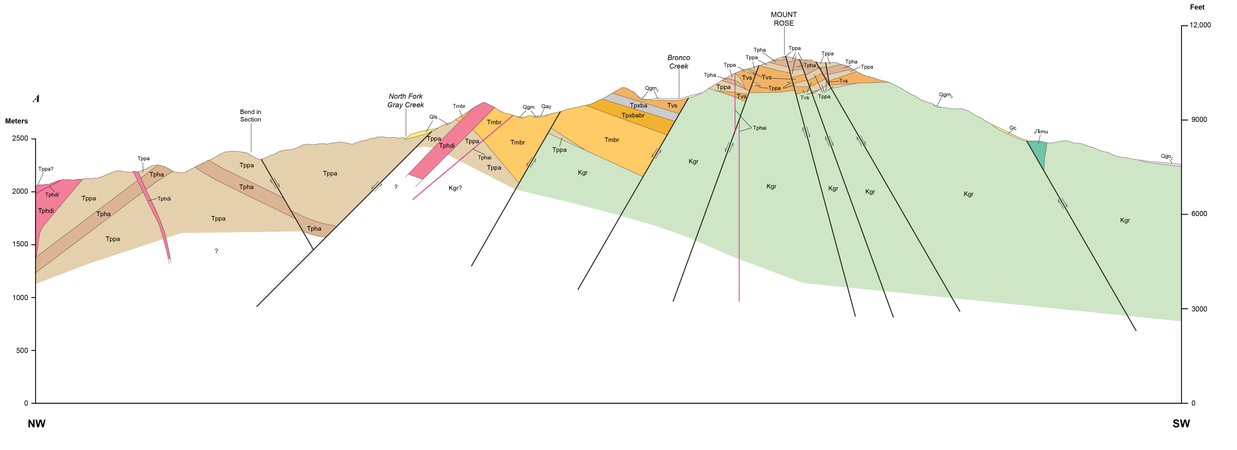
Hydrothermal alteration

Glacial striation

Line of cross section







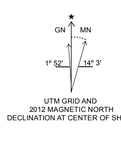
PRELIMINARY GEOLOGIC MAP OF THE MOUNT ROSE QUADRANGLE, WASHOE COUNTY, NEVADA

Nicholas H. Hinz, Alan R. Ramelli and James E. Faulds

Nevada Bureau of Mines and Geology, University of Nevada, Reno

2014

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UTM GRID AND
2012 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

Map location



Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9

1 Boca
2 Mount Rose NW
3 Mount Rose NE
4 Martis Peak
5 Mount Rose
6 Washoe City
7 Kings Beach
8 Marlette Lake
9 Carson City

Scale 1:24,000

0 0.5 1 kilometer

0 0.5 1 mile

0 1000 2000 3000 4000 5000 feet

CONTOUR INTERVAL 40 FEET

Projection: Universal Transverse Mercator, Zone 11, North American Datum 1983 (m)

Base map: U.S. Geological Survey Mount Rose 7.5' quadrangle (2012)

Nevada Bureau of Mines and Geology
Mackay School of Earth Sciences and Engineering
College of Science
University of Nevada, Reno

Field work done in 2013–2014
Supported by the U.S. Geological Survey STATEMAP Program
(Agreement No. G13AC00235)

DRAFT
Preliminary geologic map
Has not undergone office or field review
Will be revised before publication

Compilation by Nicholas H. Hinz and Alan R. Ramelli
Cartography and map production in ESRI ArcGIS v10.1 (ArcGeology v1.3)
by Jennifer Vican, Kathryn Ryan, Rachel Wearne and Irene Seelye
First Edition, September 2014
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