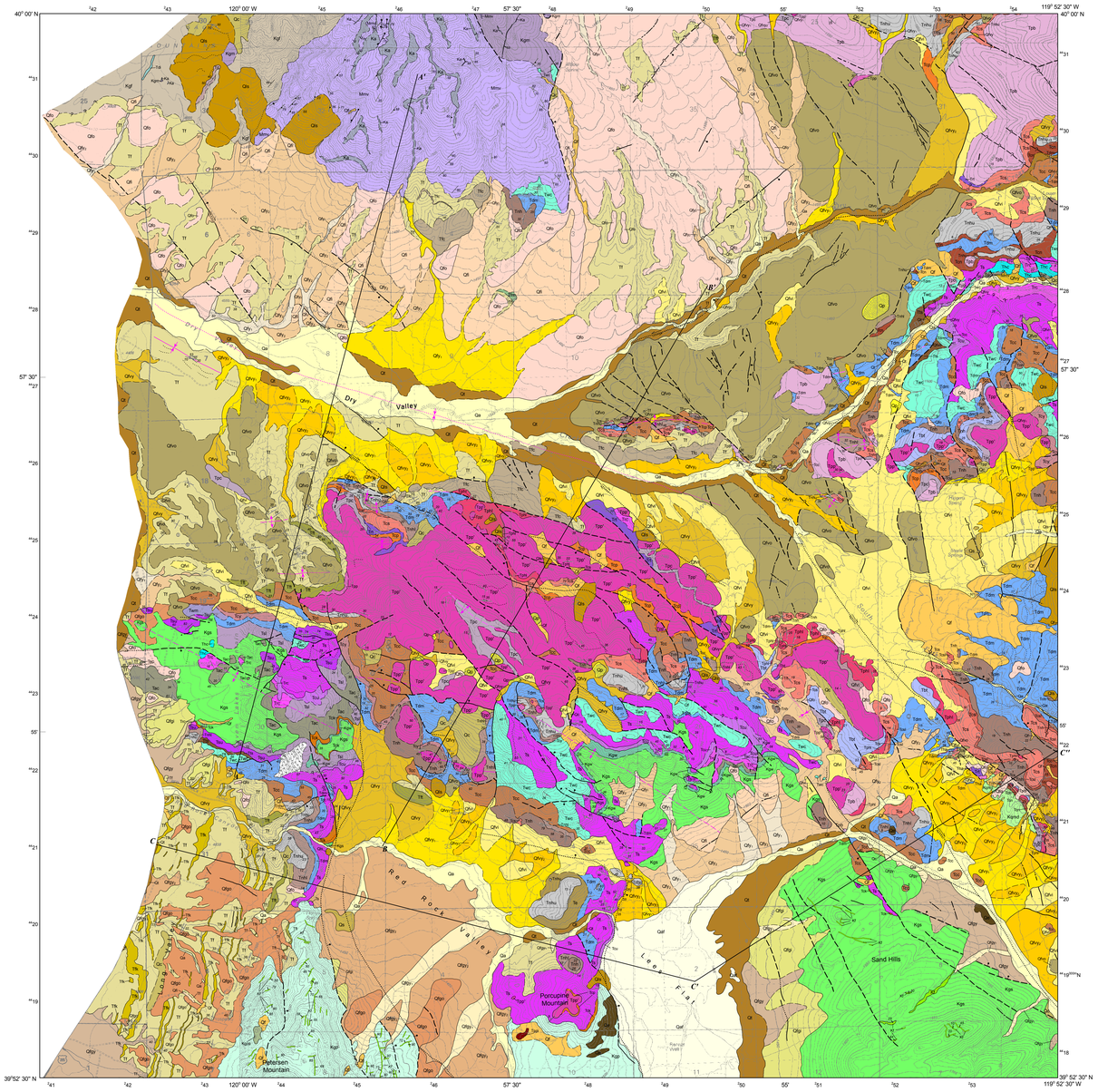


GEOLOGIC MAP OF THE SEVEN LAKES MOUNTAIN QUADRANGLE, WASHOE COUNTY, NEVADA AND THE EASTERN PART OF THE CONSTANTIA QUADRANGLE, LASSEN COUNTY, CALIFORNIA

Christopher D. Henry, Alan R. Ramelli, and James E. Faulds

2009

Quaternary Deposits

- Qa — Active alluvium
- Qaf — Fine-grained alluvium
- Ql — Alluvial terrace deposits
- Qp — Ponded alluvium
- Qs — Spring deposits
- Qae — Eolian deposits
- Qf — Alluvial fan deposits (undifferentiated), Basalt-dominated fan deposits
  - Qfgy, Qfvy — Alluvial fan deposits (late Holocene to late Pleistocene)
  - Qfy_1, $Qfgy_1$, $Qfvy_1$ — Alluvial fan deposits (late to middle Holocene)
  - Qfy_2, $Qfgy_2$, $Qfvy_2$ — Alluvial fan deposits (early Holocene to late Pleistocene)
  - Qfi, Qfgi, Qfvi — Intermediate-age fan deposits (late to middle Pleistocene)
  - Qfo, Qfgo, Qfvo — Older fan deposits (middle to early Pleistocene)
- Qc — Colluvial deposits
- Qls — Landslide deposits

Pliocene - Late Miocene Sedimentary Deposits

- Tl — Pliocene to late Miocene sedimentary deposits, undivided
- Ttc — Conglomerate
- Ttm — Conglomerate of metavolcanic rocks
- Tth — Boulder beds of Cretaceous granodiorite
- Ttt — Boulder beds of Tertiary ash-flow tuff
- Td — Dacite lava
- Tdi — Dacite dikes

Pyramid Sequence

- Tpp — Finely porphyritic basaltic andesite intrusion
- Tpp — Finely porphyritic basaltic andesite lava
- Tpp — Porphyritic basaltic andesite lava
- Tpc — Conglomerate, sandstone, and breccia
- Tpb — Basalt lava
- Tcp — Pre-Pyramid sequence conglomerate

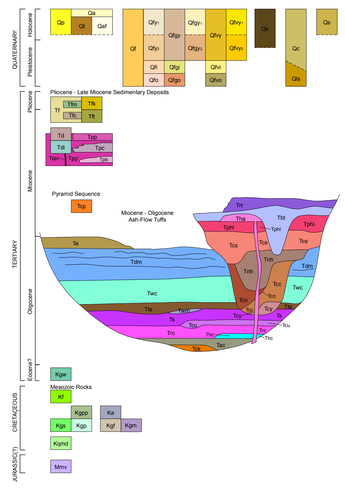
Miocene - Oligocene Ash-Flow Tuffs

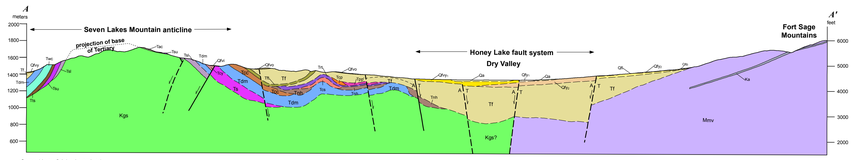
- Tt — Rhyolite-dacite ash-flow tuff
- Ttd — Tuff breccia
- Tha — Hornblende andesite dike and lavas(?)
- Tph — Tuff of Painted Hills
- Tcs — Tuff of Chimney Spring
  - Tcsl — Lower part
- Tnh — Nine Hill Tuff
  - Tnhu — Upper part
  - Tnhl — Lower part
- Tcc — Conglomerate below Nine Hill Tuff
- Tcc — Tuff of Campbell Creek
- Tcy — Conglomerate below tuff of Campbell Creek
- Te — Tuff E
- Tdm — Tuff of Dogskin Mountain
- Twc — Tuff of Cove Spring
- Ttb — Conglomerate and tuffaceous sedimentary rock
- Twm — Tuff of Western Mine
- Ts — Tuff of Sutcliffe
  - Tsu — Upper unit
  - Tsl — Lower unit
- Tou — Sedimentary rocks below tuff of Sutcliffe
- Trc — Tuff of Rattlesnake Canyon
- Thc — Tuff of Hardscrabble Canyon
- Tac — Tuff of Axehandle Canyon
- Tck — Basal Tertiary conglomerate
- Tt — Ash-flow tuffs undivided, cross sections only
- Kgw — Weathered Cretaceous granitic rocks

Mesozoic Rocks

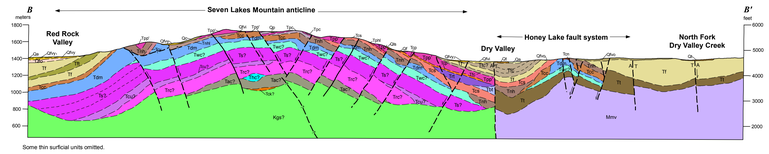
- Kf, Kf — Aplitic to pegmatitic dikes and irregular intrusions
- Kgs — Granodiorite of the Sand Hills
- Kggp — Quartz pegmatite of Petersen Mountain
- Kgp — Granodiorite of Petersen Mountain
- Ka — Aplite dikes of the Fort Sage Mountains
- Kgf — Granodiorite of the Fort Sage Mountains
- Kgm — Mafic granodiorite of the Fort Sage Mountains
- Kqmd — Quartz monzodiorite of Dogskin Mountain
- Mmv — Mesozoic (Jurassic?) metavolcanic and metasedimentary rocks

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





Some thin surficial units omitted.



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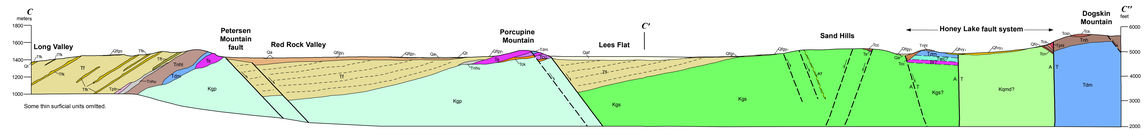

Some thin surficial units omitted.

Contact Solid where certain and location accurate, dashed where approximate, dotted where concealed; queried if identity or existence uncertain.

Intraformational contact

Form line Showing dip of beds in cross section.

Fault Solid where certain and location accurate, dashed where approximate, dotted where concealed; queried if identity or existence uncertain. Arrows show relative motion; ball and bar marks downthrown side. On cross sections only, *A*, away from observer; *T*, toward observer.

Syncline Solid where certain, dotted where concealed.

Anticline Dashed where approximately located.

Vein with dip

Lineament

A — A' **Line of cross section**

Breccia Intensely brecciated area along hinge zone of Seven Lakes Mountain anticline.

Strike and dip of bedding
Inclined Horizontal

Strike and dip of flow bands in lava or intrusion
Inclined Horizontal

Strike and dip of compaction foliation in ash-flow tuff
Inclined Horizontal Vertical

Strike and dip of metamorphic foliation in ash-flow tuff
Inclined Vertical

Map location

Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9

1 Doyle
2 State Line Peak
3 Spanish Flat
4 Constantia
5 Seven Lakes Mountain
6 Dogskin Mountain
7 Backwourth Pass
8 Granite Peak
9 Bedell Flat

Scale 1:24,000

0 0.5 1 kilometer
0 0.5 1 mile
0 1000 2000 3000 4000 5000 feet

CONTOUR INTERVAL 10 METERS (west half of Dogskin Mountain, Nevada-California, 7.5'x15' quadrangle) or 40 FEET (Constantia 7.5' quadrangle)

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

Base map: west half of the U.S. Geological Survey Dogskin Mountain, Nevada-California, 7.5' x 15' 1:24,000 scale quadrangle (1979) and Constantia 7.5' quadrangle (1994)

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

Field work done in 2004-2006
Supported by the U.S. Geological Survey STATEMAP Program
(Agreement No. 04-HQ-AG-0032 and 05-HQ-AG-0014)

PEER-REVIEWED MAP
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Compilation by Christopher D. Henry and Alan R. Ramelli
Cartography and map production in ESRI ArcGIS v9.3 (ArcGeology v1.3) by Heather Armeno, Christine Arritt, and Jennifer Mauldin
First Edition, December, 2009
Printed by Nevada Bureau of Mines and Geology

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