

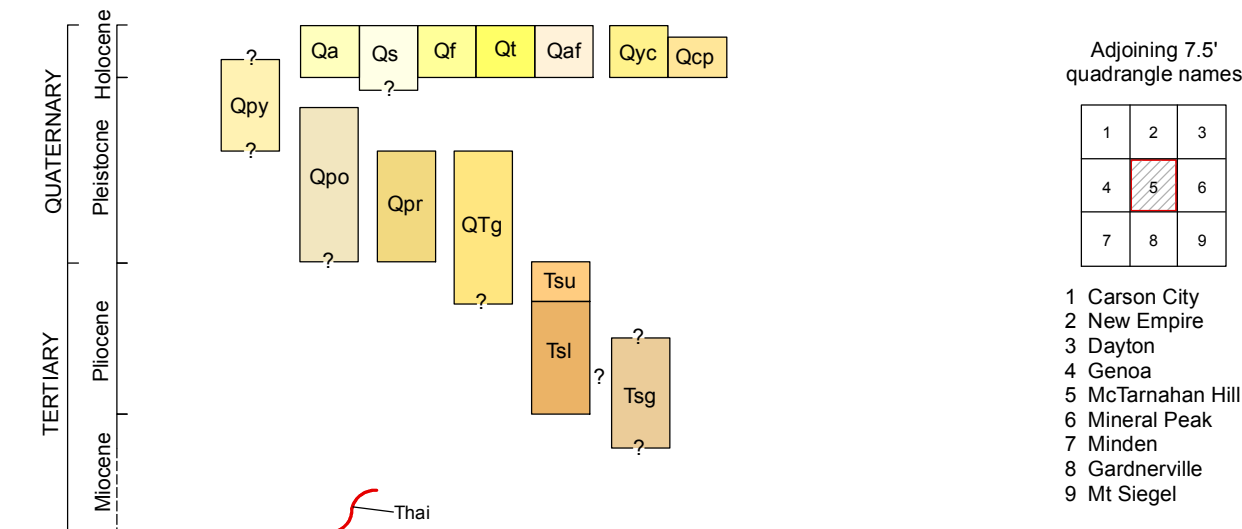
Qa	Alluvium
Qs	Eolian sand deposits
Qf	Flood-plain deposits of the Carson River
Qt	Terrace deposits of the Carson River
Qaf	Alluvial fan deposits
Qyc	Flood-plain deposits of Clear Creek
Qcp	Alluvial-plain deposits of Clear Creek
Qpy	Pediment deposits, younger
Qpo	Pediment deposits, older
Qpr	Old alluvium of the Pine Nut Range
QTg	Alluvial fan and pediment deposits
Tsu	Sunrise Pass Formation; deltaic and fluvial sands and gravels
Tsl	Sunrise Pass Formation; claystone and siltstone
Tsg	Sunrise Pass Formation; sand, gravel, sandstone, and conglomerate
Thai	Hornblende andesite dike
Kap	Aplite
Kph	Prison Hill pluton
Kphd	Prison Hill pluton, dikes
Kphb	Prison Hill pluton, Alex Eske Mine phase
Mzgp	Granodiorite porphyry
Jqm	Quartz monzodiorite
Jmd	Microdiorite
Jha	Hornblende meta-andesite
Jhsf	Metavolcanic rocks of Hot Springs Mountain, fieser semi-schist
Jhsv	Metavolcanic rocks of Hot Springs Mountain, meta-andesite
Jhas	Metavolcanic rocks of Hot Springs Mountain, immature metasandstone and metaconglomerate
JTRg	Gardnerville Formation argillite
JTRgm	Gardnerville Formation marble
TRop	Oreana Peak Formation undivided
TRopm	Oreana Peak Formation marble
Mzms	Mica schist
Mzmb	Metabasalt and meta-andesite
TRbc	Meta-andesite of Brunswick Canyon

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

A queried map-unit label indicates that the identity of the geologic map unit is in question.

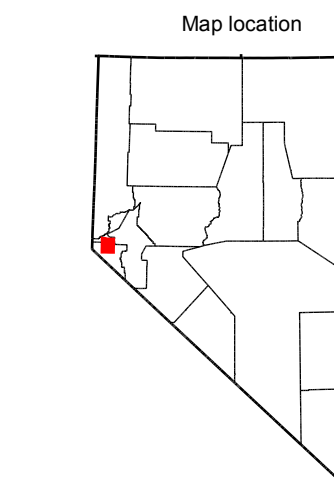
Symbology (per FGDC-STD-013-2006)

<b>Contact</b> Solid where certain and location accurate, long-dashed where approximate; queries added where identity or existence may be questionable.	<b>Anticline</b> Solid where certain and location accurate. Large arrowhead shows direction of plunge.
<b>Normal fault</b> Solid where certain and location accurate, long-dashed where approximate, dotted where concealed; ball on downthrown side. Queries added where identity or existence may be questionable.	<b>Overturned Antiform</b> Solid where certain and location accurate, long-dashed where inferred; queried if identity or existence uncertain. Large arrowhead shows direction of plunge.
<b>Thrust fault</b> Solid where certain and location accurate. Sawteeth on upper plate.	<b>Minor Synform</b> Showing bearing and plunge.
<b>Reverse fault</b> Solid where certain and location accurate. Rectangles on upthrown block.	<b>Minor Antiform</b> Showing bearing and plunge.
<b>Detachment fault</b> Solid where certain and location accurate, long-dashed where approximate, dotted where concealed. Half-circles on downthrown block.	<b>Strike and dip of bedding</b> 15° Inclined 25° Approximate Vertical 60° Inclined, where top direction is known from local features 80° Overturned, where top direction is known from local features
<b>Lineament</b>	<b>Strike and dip of compaction foliation in ash-flow tuff</b> 50° Inclined Vertical
<b>Dune Crest</b>	<b>Strike and dip of metamorphic foliation</b> 60° Inclined Vertical
<b>Quartz vein or mineralized fault</b>	<b>Strike and dip of joints</b> 20° Inclined Vertical
<b>Line of Cross Section</b>	<b>Sample Locality</b> Showing sample number. MT100
<b>Shear zone</b>	

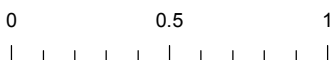


1	2	3
4	5	6
7	8	9

- 1 Carson City
- 2 New Empire
- 3 Dayton
- 4 Genoa
- 5 McTarnahan Hill
- 6 Mineral Peak
- 7 Minden
- 8 Gardnerville
- 9 Mt Siegel



Scale 1:24,000



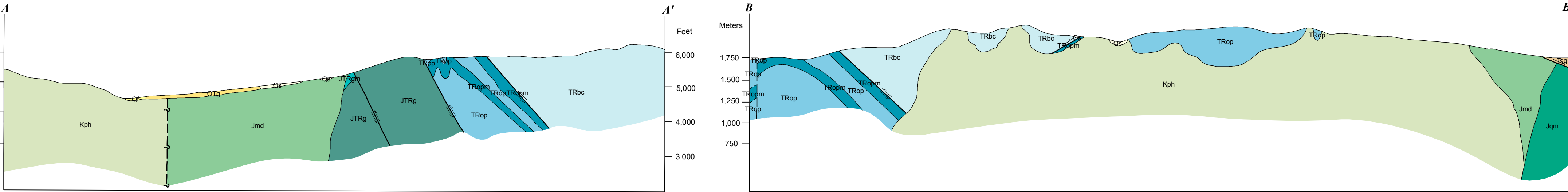
CONTOUR INTERVAL 20 FEET

Projection: Universal Transverse Mercator, Zone 11, North American Datum 1927 (m)

Base map: U.S. Geological Survey McTarnahan Hill 7.5' Quadrangle (1994)

# PRELIMINARY GEOLOGIC MAP OF THE MCTARNAHAN HILL QUADRANGLE, DOUGLAS COUNTY, NEVADA

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2009



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

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

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