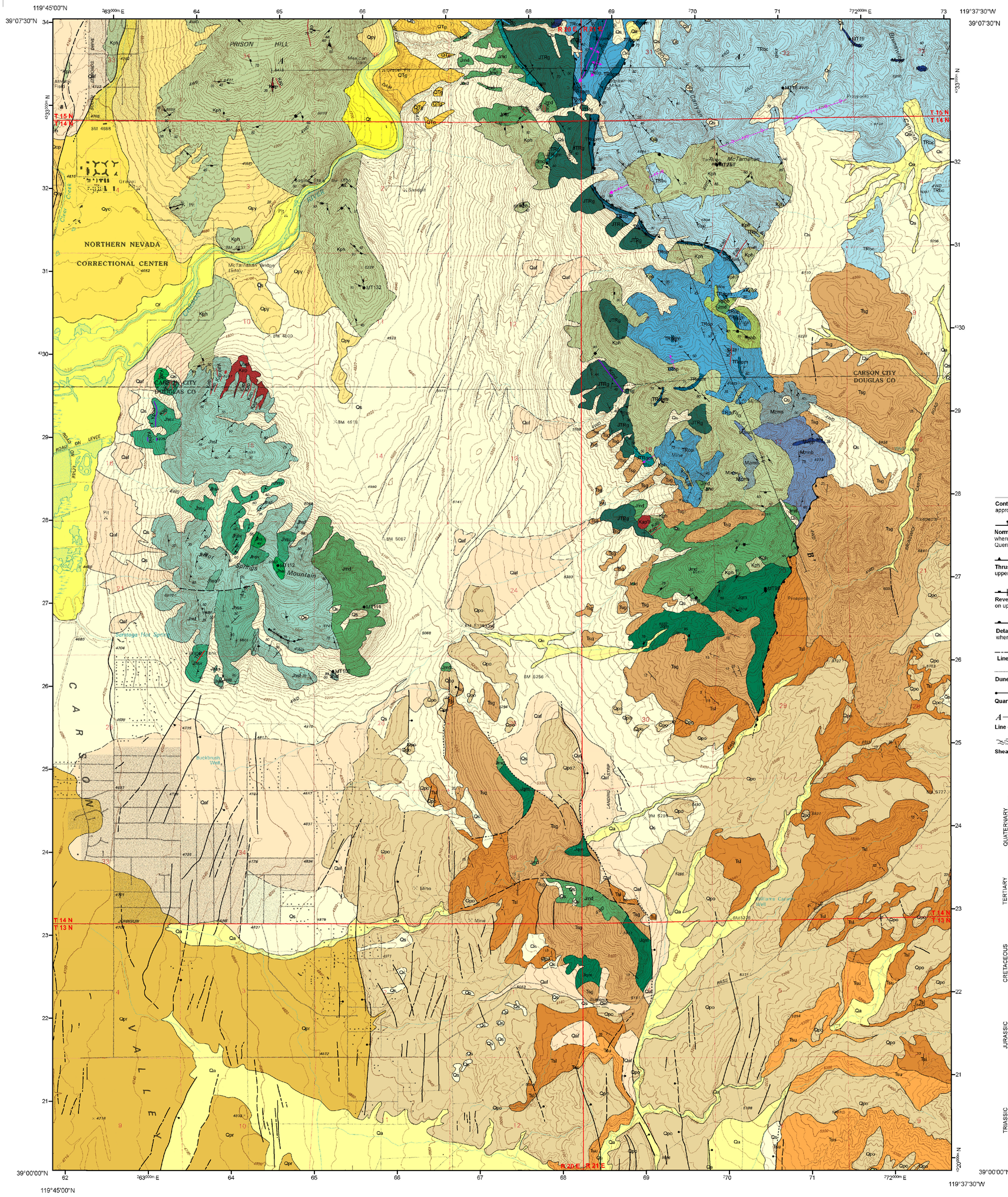
NEVADA BUREAU OF MINES AND GEOLOGY

Prepared as part of the STATEMAP component of the National Cooperative Geologic Mapping Program in cooperation with the U.S. Geological Survey

OPEN-FILE REPORT 99-5 (2nd ed.)
PRELIMINARY GEOLOGIC MAP OF THE McTARNAHAN HILL QUADRANGLE, DOUGLAS COUNTY, NEVADA



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

- 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, flaser semi-schist
- Jhsv Metavolcanic rocks of Hot Springs Mountain, meta-andesite
- Jhss 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

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

Symbology (per FGDC-STD-013-2006)

Contact Solid where certain and location accurate, long-dashed where approximate; queries added where identity or existence may be questionable.

Normal fault 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.

Thrust fault Solid where certain and location accurate. Sawteeth on upper plate.

Reverse fault Solid where certain and location accurate. Rectangles on upthrown block.

Detachment fault Solid where certain and location accurate, long-dashed where approximate, dotted where concealed. Half-circles on downthrown block.

Lineament

Dune Crest

Quartz vein or mineralized fault

Line of Cross Section

Shear zone

Anticline Solid where certain and location accurate. Large arrowhead shows direction of plunge.

Overturned Antiform Solid where certain and location accurate, long-dashed where inferred; queried if identity or existence uncertain. Large arrowhead shows direction of plunge.

Minor Synform Showing bearing and plunge.

Minor Antiform Showing bearing and plunge.

Strike and dip of bedding

Inclined; Approximate; Vertical

Inclined, where top direction is known from local features

Overturned, where top direction is known from local features

Strike and dip of compaction foliation in ash-flow tuff

Inclined; Vertical

Strike and dip of metamorphic foliation

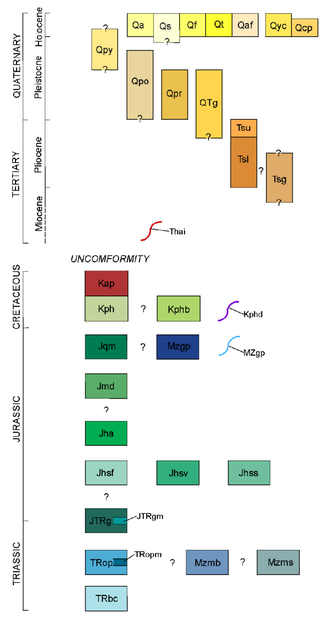
Inclined; Vertical

Strike and dip of joints

Inclined; Vertical

Sample Locality Showing sample number.

MT100

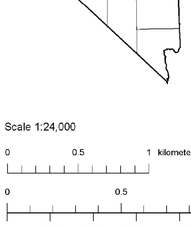


Adjoining 7.5' quadrangle names

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

Map location



Scale 1:24,000

0 0.5 1 kilometer

0 0.5 1 mile

0 1000 2000 3000 4000 5000 feet

CONTOUR INTERVAL 20 FEET

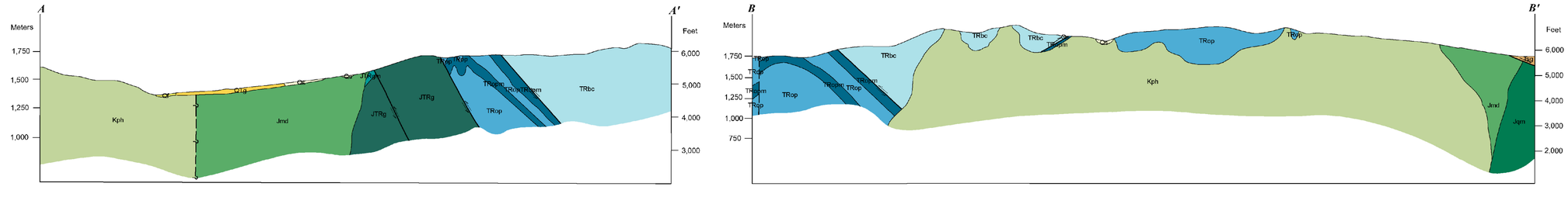
Projection: Universal Transverse Mercator, Zone 11, North American Datum 1927 (m)

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

PRELIMINARY GEOLOGIC MAP OF THE McTARNAHAN HILL QUADRANGLE, DOUGLAS COUNTY, NEVADA

Larry J. Garside and James G. Rigby

2009



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

Field work done in 1997-1999
Supported by the U.S. Geological Survey STATEMAP Program
(Agreement No. 1434-HQ-97-AG-01766)

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

Edited by Dick Meeuwig and Jordan Hastings
Compilation by Robert Chaney
Cartography and map production in ESRI ArcGIS v9.3 (ArcGeology v1.3) by Jennifer Mauldin and Matthew Richardson
Second Edition, July 2009
Printed by Nevada Bureau of Mines and Geology

This map was printed on an electronic plotter directly from digital files. Dimensional calibration may vary between electronic plotters and X and Y directions on the same plotter, and paper may change size; therefore, scale and proportions may not be exact on copies of this map.

For sale by:
Nevada Bureau of Mines and Geology
University of Nevada, Reno / 170
Reno, Nevada 89557-0178
ph. (775) 784-6691, ext. 2
www.nbmg.unr.edu; nbmgsales@unr.edu

2045