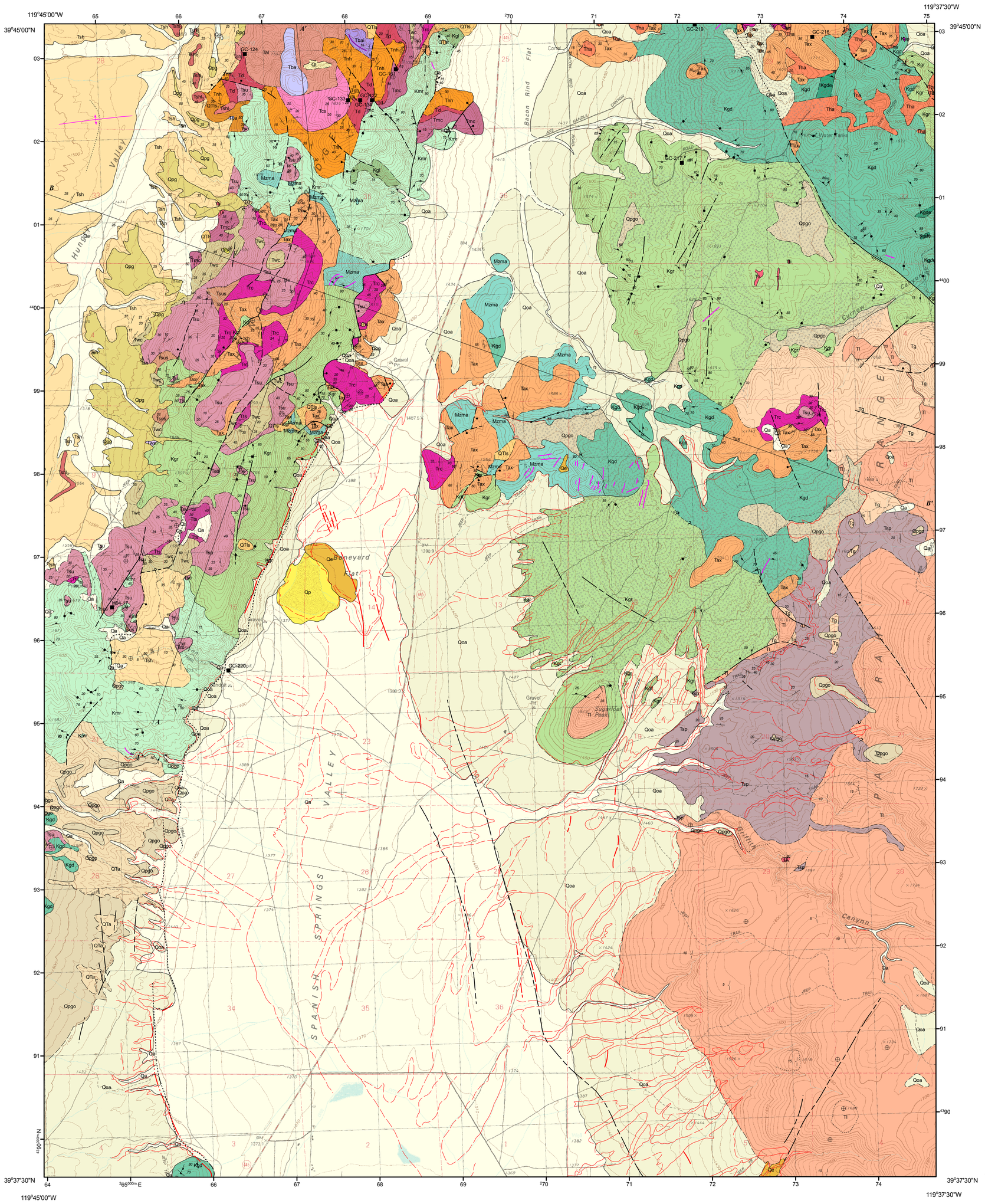
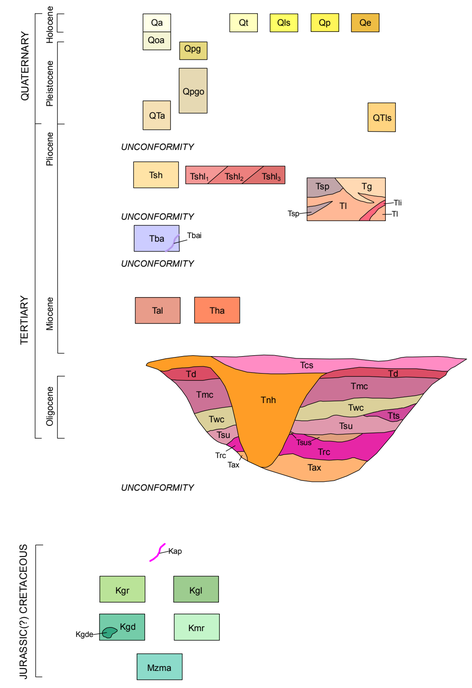
Prepared as part of the STATEMAP component of the National Cooperative Geologic Mapping Program in cooperation with the U.S. Geological Survey





QUATERNARY DEPOSITS

- Qa — Alluvium
- Qt — Talus
- Qls — Landslide deposits
- Qp — Playa deposits
- Qe — Eolian deposits
- Qpg — Pediment deposits
- Qoa — Older alluvial fan deposits
- Qpgo — Older pediment deposits and/or surfaces
- QTls — Landslide and debris flow deposits
- QTa — Late Tertiary/early Pleistocene alluvial and alluvial fan deposits

TERTIARY UNITS

- Tg — Gravel
- Tsh — Sedimentary rocks and landslide deposits of Hungry Valley
  - $Tshl_3$ — Landslide deposits of Hungry Valley (3)
  - $Tshl_2$ — Landslide deposits of Hungry Valley (2)
  - $Tshl_1$ — Landslide deposits of Hungry Valley (1)
- Tsp — Sedimentary rocks of Pah Rah Range
- Tl — Lousetown Formation, flows
- Tli — Lousetown Formation, dikes
- Tba — Basaltic trachyandesite flow
- Tbai — Basaltic trachyandesite dike
- Tal — Andesite lahars
- Tha — Hornblende andesite intrusive rocks
- Tcs — Tuff of Chimney Spring
- Tnh — Nine Hill Tuff
- Td — Tuff of Dogskin Mountain
- Tmc — Tuff of Mine Canyon
- Twc — Tuff of Cove Spring
- Tts — Tuffaceous sedimentary rocks and conglomerate
- Tsu — Tuff of Sutcliffe
- Tsus — Tuff and sedimentary rocks below tuff of Sutcliff
- Trc — Tuff of Rattlesnake Canyon
- Tax — Tuff of Axe Handle Canyon

CRETACEOUS UNITS

- Kap — Aplite-pegmatite dikes
- Kgr — Granite
- Kgl — Leucocratic granodiorite
- Kgd — Granodiorite
- Kgde — Granodiorite with enclaves
- Kmr — Monzodiorite and diorite of Rocky Ridge

JURASSIC(?) DEPOSITS

- Mzma — Metavolcanic rocks

Symbology (per FGDC-STD-013-2006)

Contact Solid where certain and location accurate, long-dashed where approximate, short-dashed where inferred, dotted where internal; queried if identity or existence uncertain.

Fault Solid where certain and location accurate, long-dashed where approximate, dotted where concealed; queried if identity or existence uncertain. Ball on downthrown side. Arrows show relative motion.

Preliminary, incomplete surficial contact Solid where certain and location accurate, long-dashed where approximate.

Preliminary, incomplete fault Solid where certain and location accurate, long-dashed where approximate, dotted where concealed.

Gravel contact Location approximate.

Vein Showing dip

Lineament

Anticline

Line of cross section

Strike and dip of bedding
Inclined; Inclined, approximate; Horizontal

Strike and dip of compact foliation in ash-flow tuff
Inclined; Horizontal

Strike and dip of flow banding or flow foliation in igneous rocks
Inclined

Strike and dip of metamorphic foliation
Inclined

Strike and dip of joints
Inclined; Vertical or near-vertical

Strike and dip of platy joining in lava
Inclined

Sample locality

Pediment surface developed on bedrock
Deposits mapped as unit Qpgo

PRELIMINARY GEOLOGIC MAP OF THE GRIFFITH CANYON QUADRANGLE, WASHOE COUNTY, NEVADA

Larry J. Garside, Fred L. Nials, and Alan R. Ramelli

2010

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

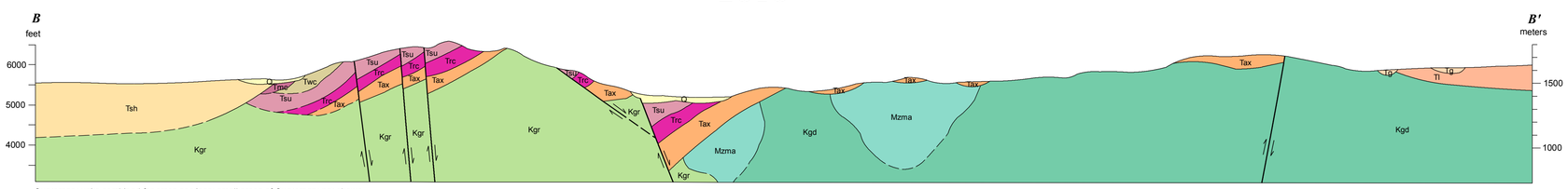
Scale 1:24,000

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

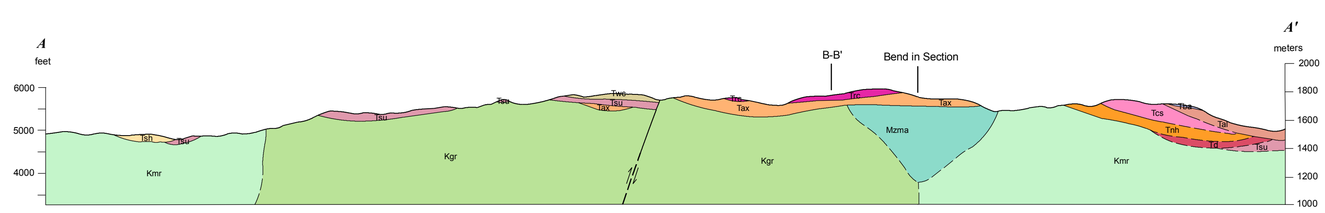
CONTOUR INTERVAL 10 METERS

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

Base map: U.S. Geological Survey Griffith Canyon 7.5' quadrangle (1980)



Quaternary units combined for cross sections; small areas of Quaternary not shown.



Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9

1 Bedell Flat
2 Fraser Flat
3 Moses Rock
4 Reno NE
5 Griffith Canyon
6 Spanish Springs Peak
7 Reno
8 Vista
9 Patrick

Map location

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

Field work done in 1996-1997, 2005-2006
Supported by the U.S. Geological Survey STATEMAP Program
(Agreement No. 1434-HQ-96-AG-01502 and G09AC00116)

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

Edited by Daphne D. LaPointe
Compilation by Larry Garside
Cartography and map production in ESRI ArcGIS v9.3 (ArcGeology v1.3) by Matthew Richardson and Jennifer Mauldin
First Edition, February 2010
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
2175 Raggio Pkwy.
Reno, Nevada 89512
ph. (775) 784-6691, ext. 2
www.nbmg.unr.edu; nbmgsales@unr.edu

2068