

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

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2018

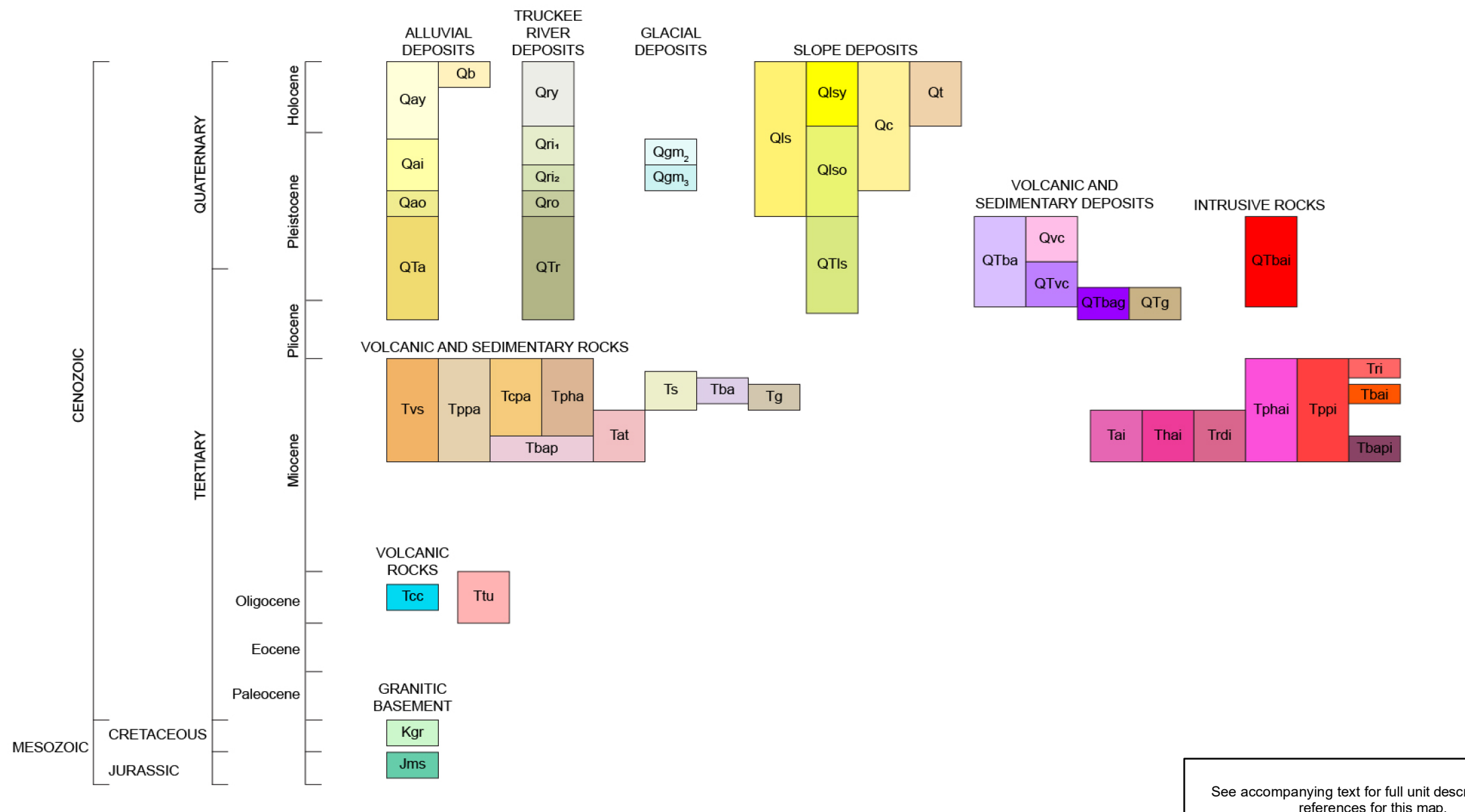
- QUATERNARY DEPOSITS**
 - Qb Basin-fill deposits (Anthropocene to Holocene)
 - Qay Young alluvial deposits (Holocene to latest Pleistocene)
 - Qai Intermediate-aged alluvial deposits (late Pleistocene)
 - Qao Older alluvial deposits (middle Pleistocene)
 - Qts Older alluvial deposits (early Pleistocene to late Pliocene)
 - Qry Young river deposits (Holocene)
 - Qri Intermediate-aged river deposits (late Pleistocene)
 - Qri Intermediate-aged river deposits (late Pleistocene)
 - Qro Older river deposits (middle Pleistocene)
 - Qrt Older river deposits (early Pleistocene to late Pliocene)
 - Qgm1 Glacial deposits (late Pleistocene)
 - Qgm2 Glacial deposits (late Pleistocene)
 - Qls Young landslide deposits (late Holocene)
 - Qlc Landslide deposits (Holocene to late Pleistocene)
 - Qlo Older landslide deposits (Pleistocene)
 - Qlt Older landslide deposits (early Pleistocene to late Pliocene)
 - Qcd Colluvial deposits (Holocene to late Pleistocene)
 - Qd Talus deposits (Holocene)
- QUATERNARY AND LATE TERTIARY VOLCANIC AND SEDIMENTARY DEPOSITS**
 - Qvc Basaltic andesite cinders (Pleistocene)
 - Qvba Basaltic andesite and andesite lavas (Pleistocene to late Pliocene)
 - Qvtc Basaltic trachyandesite cinders (Pleistocene to late Pliocene)
 - Qtr Gravel deposits (Pleistocene to late Pliocene)
 - Qvga Basaltic andesite gravel deposits (Pleistocene to late Pliocene)
- TERTIARY VOLCANIC AND SEDIMENTARY ROCKS**
 - Tba Aphanitic basaltic andesite (Miocene)
 - Ts Fluvial-lacustrine sediments (Miocene)
 - Tg Fluvial gravel (Miocene)
 - Ta Andesite (Miocene)
 - Tcra Coarse-grained plagioclase-hornblende porphyritic andesite (Miocene)
 - Tpha Plagioclase-hornblende-pyroxene porphyritic andesite (Miocene)
 - Tppa Plagioclase-pyroxene porphyritic andesite (Miocene)
 - Tbap Sparingly porphyritic basaltic andesite and andesite (Miocene)
 - Tvs Volcaniclastic sedimentary rocks (Miocene)
 - Tcc Tuff of Campbell Creek (Oligocene)
 - Ttu Undistinguished welded rhyolite tuff (Oligocene)
- QUATERNARY AND TERTIARY INTRUSIVE ROCKS**
 - Itba Basaltic trachyandesite intrusion (Pleistocene to late Pliocene)
 - Ita Rhyolite (late Miocene)
 - Itf Finely porphyritic andesite (Miocene)
 - Itba Hornblende andesite (Miocene)
 - Itba Aphanitic basaltic andesite (Miocene)
 - Itpha Plagioclase-hornblende-pyroxene porphyritic andesite (Miocene)
 - Itppa Plagioclase-pyroxene porphyritic andesite (Miocene)
 - Itbap Sparingly porphyritic basaltic andesite (Miocene)
 - Itva Rhyodacite (Miocene)
 - Itvba Sparingly porphyritic basaltic andesite (Miocene)
- MESOZOIC BASEMENT**
 - Kgr Undivided granitic plutons(?) (Cretaceous)
 - Jms Meta-sedimentary rocks (Jurassic)

- Contact** Solid where certain, dashed where approximately located, dotted where concealed. Quoted if identity or existence uncertain.
- Normal fault** Solid where certain, dashed where approximately located, dotted where concealed. Quoted if identity or existence uncertain. Ball on downthrown side. Arrows show oblique motion. In cross section approximately located faults shown as solid, arrows show relative motion.
- Head or main scarp of landslide** Solid where certain, dashed where inactive, subdued, indistinct and (or) approximately located. Hatchures point downscarp.
- Sackungen (uphill facing scarp)** Dashed where approximately located. Hatchures point uphill.
- Anticline** Dashed where approximately located, dotted where concealed.
- Syncline** Dashed where approximately located, dotted where concealed.
- Crest line of asymmetrical moraine** Tics point down steeper slope.
- Dike**
- Strike and dip of bedding**
- Strike and dip of joints**
- Strike and dip of flow banding or flow foliation in volcanic rocks**
- Strike and dip of compaction foliation in ash-flow tuff**
- Geochronological sample location (see Table 1)**
- Hydrothermal alteration**
- Line of cross section**

Table 1.

Sample	Latitude NAD 83	Longitude NAD 83	Analysis	Age (Ma)	±2 sigma	Source
01-LT-49	39.394409	-119.986829	⁴⁰ Ar/ ³⁹ Ar	1.45	0.06	Cousens et al. (2011)
01-LT-51	39.42761	-119.909527	⁴⁰ Ar/ ³⁹ Ar	2.55	0.08	Cousens et al. (2011)
01-LT-48	39.427909	-119.902029	⁴⁰ Ar/ ³⁹ Ar	3.19	0.02	Cousens et al. (2011)
NH16-540	39.428783	-119.904017	⁴⁰ Ar/ ³⁹ Ar	6.56	0.09	This study
NH18-391	39.469313	-119.972021	⁴⁰ Ar/ ³⁹ Ar			This study, pending
NH18-372	39.460656	-119.941251	⁴⁰ Ar/ ³⁹ Ar			This study, pending
NH18-388	39.490151	-119.949703	⁴⁰ Ar/ ³⁹ Ar			This study, pending

Age dates originally from Cousens et al. (2011), recalculated by Chris Henry (personal communication) in 2016 using the 28.201 Ma monitor age for the Fish Canyon Tuff.



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

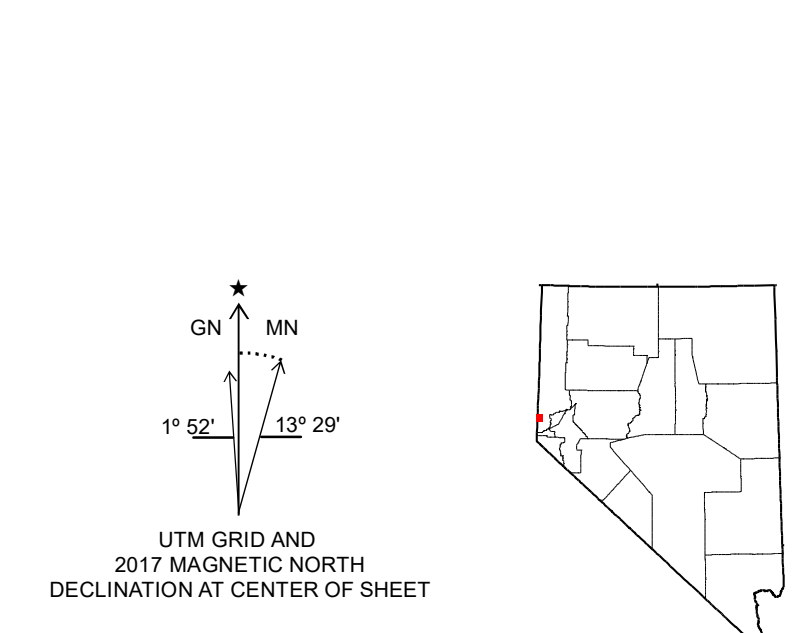
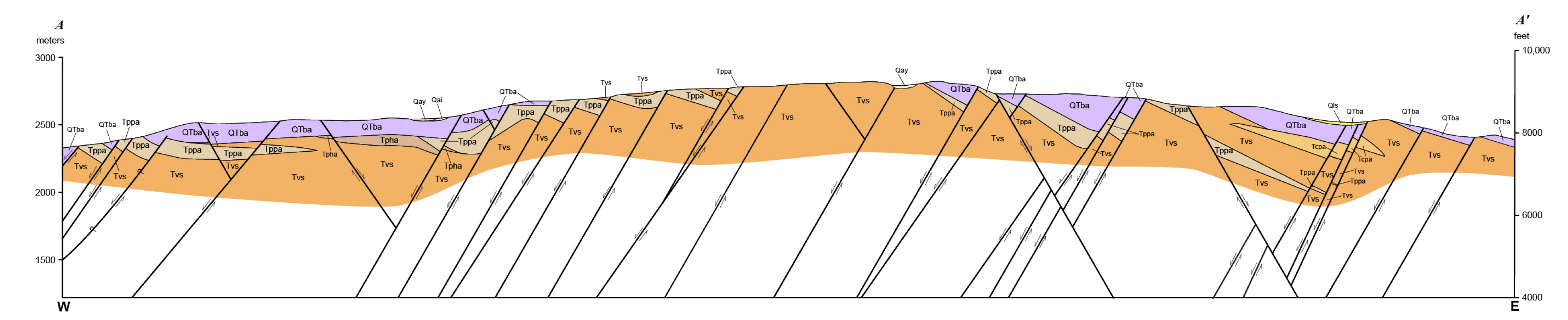
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DRAFT
Preliminary geologic map.
Has not undergone official review, or full editing.
Will be revised before publication.

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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 NW
7.5' quadrangle (2018)

DEM: U.S. Geological Survey 3DEP QL1 LIDAR (2017)

Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9

- Dog Valley
- Verdi
- Reno
- Boca
- Mount Rose NW
- Mount Rose NE
- Morris Peak
- Mount Rose
- Washoe City