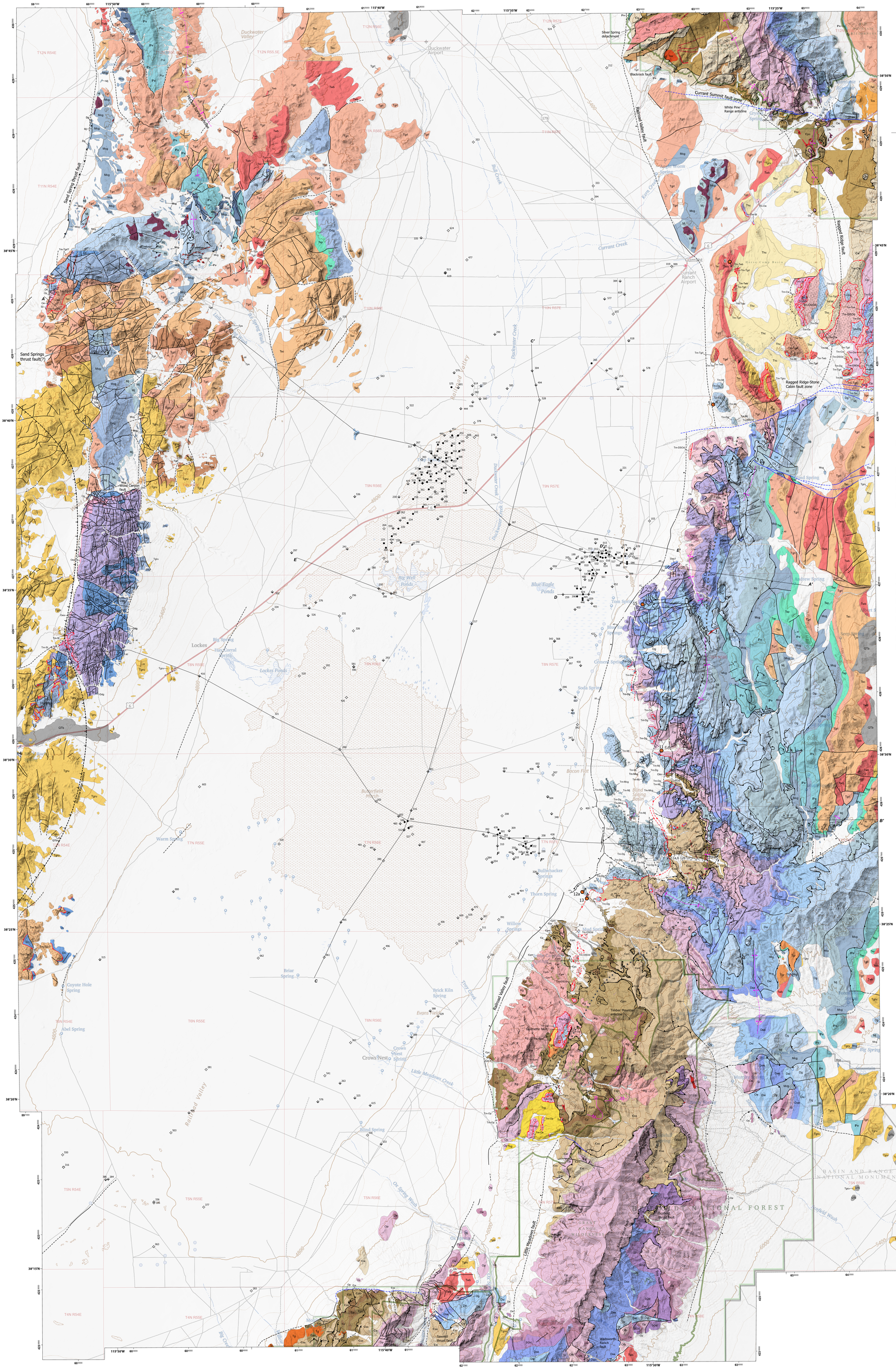


# BEDROCK GEOLOGIC MAP OF THE RAILROAD VALLEY AREA, NYE COUNTY, NEVADA

Plate 1 of 5

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**2024**

## GEOLOGIC UNITS

See report and plate 2 for unit descriptions and references for this plate.

- QTb — Unnamed basalt (Neogene)
- QTvf — Valley fill (Pliocene to Miocene), shown in cross sections only
- QTvfu — Upper valley fill
- QTvfm — Middle valley fill
- QTvfl — Lower valley fill
- QTvfe — Early valley fill
- Tmr — Megabreccia, suffix indicates protolith (Pliocene, Miocene, or Oligocene)
- TmES — Eagle Spring megabreccia, shown in cross sections only
- TmKS — Kate Spring megabreccia, shown in cross sections only
- TmGC — Grant Canyon megabreccia, shown in cross sections only
- Thc — Horse Camp Formation (Pliocene to Miocene)
- Tcg — Unnamed conglomerate (Miocene)
- Tsb — Sedimentary breccia (Miocene), shown in cross sections only
- Tgr — Garrett Ranch Group (Oligocene)
- Tgru — Upper Garrett Ranch Group
- Tts — Trap Spring caprock, shown in cross sections only
- Twb — Windous Butte Formation
- Tgrl — Lower Garrett Ranch Group
- Tpt — Tuff of Pritchards Station
- Tc — Currant Tuff, shown in cross sections only
- Tsc — Stone Cabin Formation
- Tsp — Sheep Pass Formation (Eocene)
- PCr — Carbon Ridge Formation (Permian)
- IPe — Ely Limestone (Pennsylvanian)
- Mdp — Diamond Peak Formation (Mississippian)
- Mcg — Chainman Shale-Gap Wash Formation, undivided (Mississippian)
- Mc — Chainman Shale (Mississippian), shown on cross sections only
- Mgw — Gap Wash Formation (Mississippian), shown on cross sections only
- Mj — Joana Limestone (Mississippian)
- Dg — Guilmette Formation (Devonian)
- Ddg — Devils Gate Limestone (Devonian)
- Dn — Nevada group (Devonian)
- Dsi — Simonson Dolomite (Devonian)
- Dse — Sevy Dolomite (Devonian)
- Si — Laketown Dolomite (Silurian)
- SOd — Laketown-Fish Haven, undivided (Silurian, Ordovician)
- Ofh — Fish Haven Dolomite (Ordovician)
- Oes — Ely Springs Dolomite (Ordovician)
- Oe — Eureka Quartzite (Ordovician)
- Op — Pogonip Group (Ordovician)
- C — Cambrian, undivided, shown in cross sections only (Cambrian)
- Clm — Little Meadows Formation (Cambrian)
- Cw — Windfall Formation (Cambrian)
- Css — Sidehill Spring Formation (Cambrian)
- Cd — Dunderberg Shale (Cambrian)
- Clp — Lincoln Peak Formation (Cambrian)
- Cpc — Pole Canyon Limestone (Cambrian)
- Cp — Pioche Shale (Cambrian)
- Cpm — Prospect Mountain Quartzite (Cambrian)
- J — Jasperoid, unknown age

**Intrusions**

- Ti — Intrusion, unspecified, shown on cross section A only
- Tcs — Currant Stock (Cenozoic)
- Trs — Railroad Stock (Cenozoic)
- Tss — Silver Spring Stock (Cenozoic)
- Tg — Unnamed granite or granitic rocks (Cenozoic)
- d — Unnamed dike or sill (Cenozoic)
- Kg — Troy Granite (Cretaceous)

## MAP SYMBOLS

- **Contact** Automatically generated from geologic unit boundaries and shown as solid.
- **Fault** Solid where certain and location accurate, short-dashed where inferred.
- **High-angle normal fault** Solid where certain and location accurate, short-dashed where inferred. Showing dip; ball on downthrown block.
- **Low-angle normal fault** Solid where certain and location accurate, short-dashed where inferred. Half circles on downthrown block.
- **Megabreccia fault** Solid where certain and location accurate, short-dashed where inferred. Half circles on overriding block.
- **Transverse fault** Solid where certain and location accurate, short-dashed where inferred.
- **Thrust fault** Solid where certain and location accurate, short-dashed where inferred. Sawteeth on upper (tectonically higher) plate.
- **Culmination axis**
- **Anticline** Solid where certain and location accurate, short-dashed where inferred.
- **Overturned anticline** Solid where certain and location accurate. Short-dashed where inferred.
- **Syncline** Solid where certain and location accurate. Short-dashed where inferred.
- **Caldera margin** Short-dashed where inferred. Ticks point into caldera.
- A — A′ **Line of cross section**

**Strike and dip of bedding**

- 47 Inclined
- 59 Overturned

**Strike and dip of compaction foliation in ash-flow tuff**

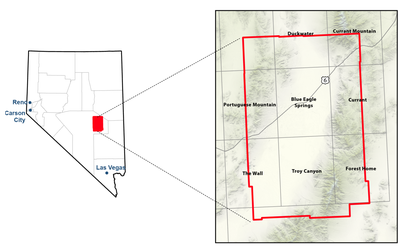
- 67 Inclined

**Well Symbology**

- 196 well reference number (appendix B)
- Dry hole
- Dry hole gas show
- Dry hole oil & gas show
- Dry hole oil show
- Injection/disposal
- Oil well
- Oil well plugged

**Megabreccia** Brecciated rocks of older formations. Suffix added to unit label indicates original formation.

12a **Photo locations** Showing camera direction.




**Scale 1:63,360**

0 0.5 1 1.5 2 2.5 3 3.5 KILOMETER

0 0.5 1 1.5 2 2.5 MILE

0 2,000 4,000 6,000 8,000 10,000 12,000 FEET

**CONTOUR INTERVAL 150 FEET**

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

Basemap: U.S. Geological Survey 30′ x 60′ Duckwater and Quinn Canyon Range quadrangles. Acquired from The National Map Topo Builder website, April 2024.

Hillshade: Derived from 10m DEM data from The National Map.

MN GN 12° 4′ 0° 53′

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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