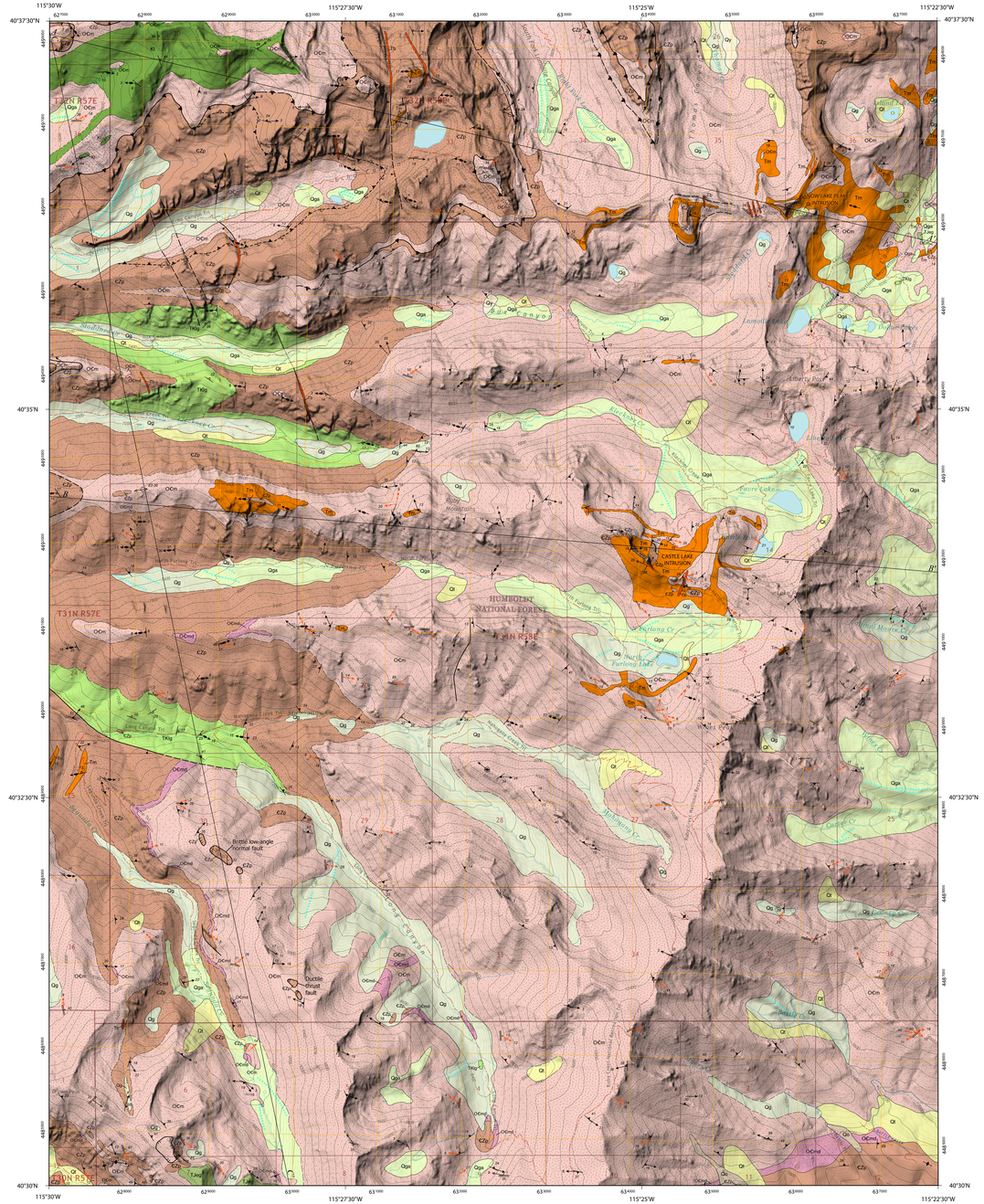
GEOLOGIC MAP OF THE RUBY DOME QUADRANGLE, ELKO COUNTY, NEVADA

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2026



MAP SYMBOLS

Contact Solid where certain and location accurate, dashed where approximately located, short dash were location inferred.

Fault Solid where certain and location accurate, dashed where approximately located, dotted where concealed.

Normal fault Solid where certain and location accurate, dashed where approximately located, dotted where concealed. Showing dip; ball on downthrown side. *In cross section, arrows show relative motion.*

Pre-metamorphic thrust fault Solid where certain and location accurate, short dash where location inferred, dotted where concealed; queried if identity or existence uncertain. Teeth on upper plate.

Ductile symmetamorphic thrust fault Short dash where location inferred. Teeth on upper plate.

Overturned thrust fault Solid where certain and location accurate, dashed where approximately located. Teeth on upper plate.

Brittle low-angle normal fault Solid where certain and location accurate. Hachures on upper plate.

Crest of glacial moraine

Shoreline

Dike Solid where certain. In cross section A–A' only.

Line of cross section

Strike and dip of bedding
- Inclined
- Vertical

Strike and dip of foliation in metasedimentary rocks
- Inclined
- Horizontal
- Vertical

Strike and dip of foliation in igneous and metaigneous rocks
- Inclined

Strike and dip of axial plane of mesoscopic fold
- Inclined
- Vertical

Bearing and plunge of mesoscopic fold
- S-sense, viewed down-plunge
- Z-sense, viewed down-plunge
- No specified sense, viewed down-plunge

Bearing and plunge of mesoscopic fold and lineation
- Inclined

Shear-sense direction of disharmonic folds
Arrow indicates apparent drag sense of upper rocks over lower as determined from facing directions of upper short limbs in sets of variably oriented mesoscopic folds. Separation arc indicates degree of uncertainty. (figure 15; Howard, 1968).

Bearing and plunge of lineation
- Generic
- Mylonitic elongation

Proportion of granite within mapped metasedimentary rock units
- <1/3 granitic rocks
- 1/3 to 2/3 granitic rocks
- >2/3 granitic rocks

Areas where small bodies of metamorphosed gabbro occur within mapped units
Contains clinopyroxene, hornblende, cummingtonite, biotite–phlogopite, olivine, plagioclase. Intruded by small sills of leucogranite gneiss.

Water bodies

Fabric explanation in cross sections only
- Annealed infrastructure foliation
- Mylonitic foliation
- Fold vergence
- Speculative form lines along the metamorphosed strata

GEOLOGIC UNITS

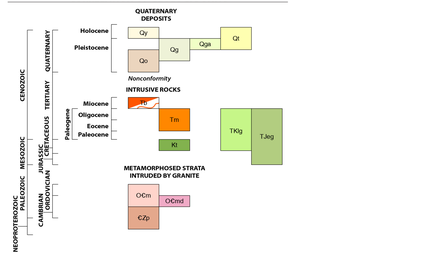
See accompanying text for full unit descriptions and references for this map.

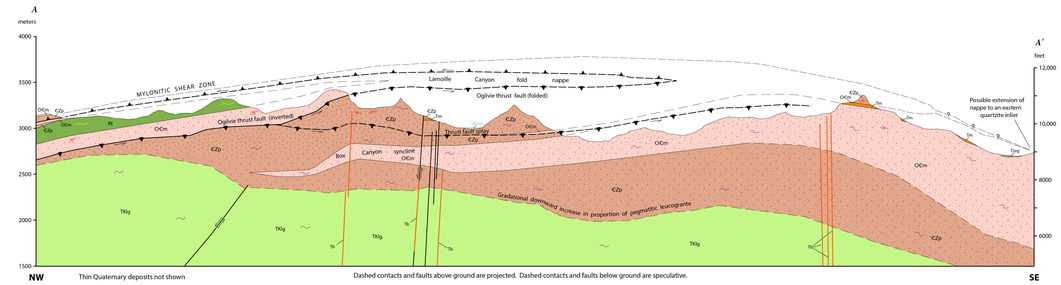
QUATERNARY DEPOSITS
- Qy Young alluvium (Holocene)
- Qo Old alluvium (Pleistocene)
- Qg Glacial drift (late Pleistocene)
- Qga Glacial drift of Angel Lake glaciation (late Pleistocene)
- Qt Talus and colluvium (Holocene and Pleistocene)

INTRUSIVE ROCKS
- Tb Basalt dikes (Miocene)
- Tm Biotite monzogranite (Oligocene? and Eocene)
- TKg Pegmatitic Leucogranite (Paleogene and Late Cretaceous)
- TJeg Equigranular two-mica granite (Paleogene, Cretaceous, and/or Jurassic)
- Kl Granite gneiss of Thorpe Creek (Late Cretaceous)

METAMORPHOSED STRATA INTRUDED BY GRANITE
- OCm Marble of Verdi Peak (Ordovician and Cambrian strata)
- OCmd Brown dolomitic marble
- €Zp Metamorphosed Prospect Mountain Quartzite (Cambrian and Neoproterozoic)

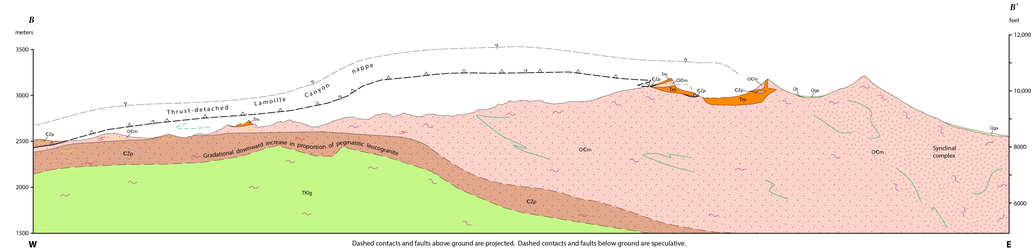
CORRELATION OF GEOLOGIC UNITS



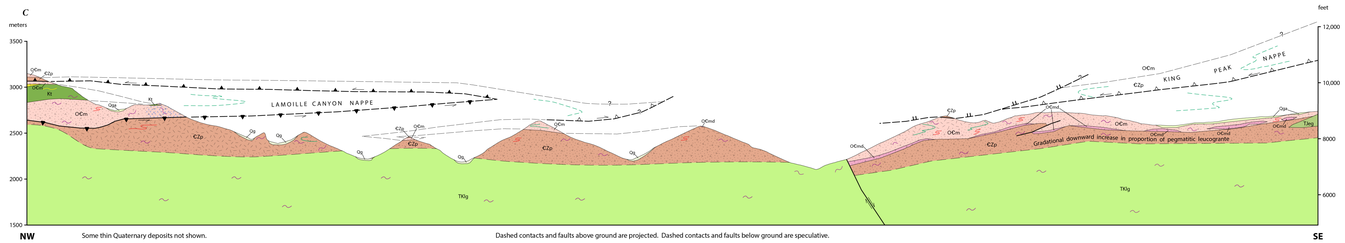


Thin Quaternary deposits not shown

Dashed contacts and faults above ground are projected. Dashed contacts and faults below ground are speculative.

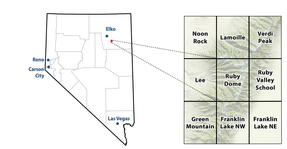


Dashed contacts and faults above ground are projected. Dashed contacts and faults below ground are speculative.



Some thin Quaternary deposits not shown.

Dashed contacts and faults above ground are projected. Dashed contacts and faults below ground are speculative.





Suggested citation:
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Scale 1:24,000

0 0.5 1 KILOMETER
0 0.5 1 MILE
0 1,000 2,000 3,000 4,000 5,000 FEET

CONTOUR INTERVAL 40 FEET

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

Base map: U.S. Geological Survey Ruby Dome 7.5' quadrangle (2021)

Hillshade: Derived from 1/3 arc second data from The National Map.

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