

GEOLOGIC MAP OF THE COBRE SE QUADRANGLE, ELKO COUNTY, NEVADA

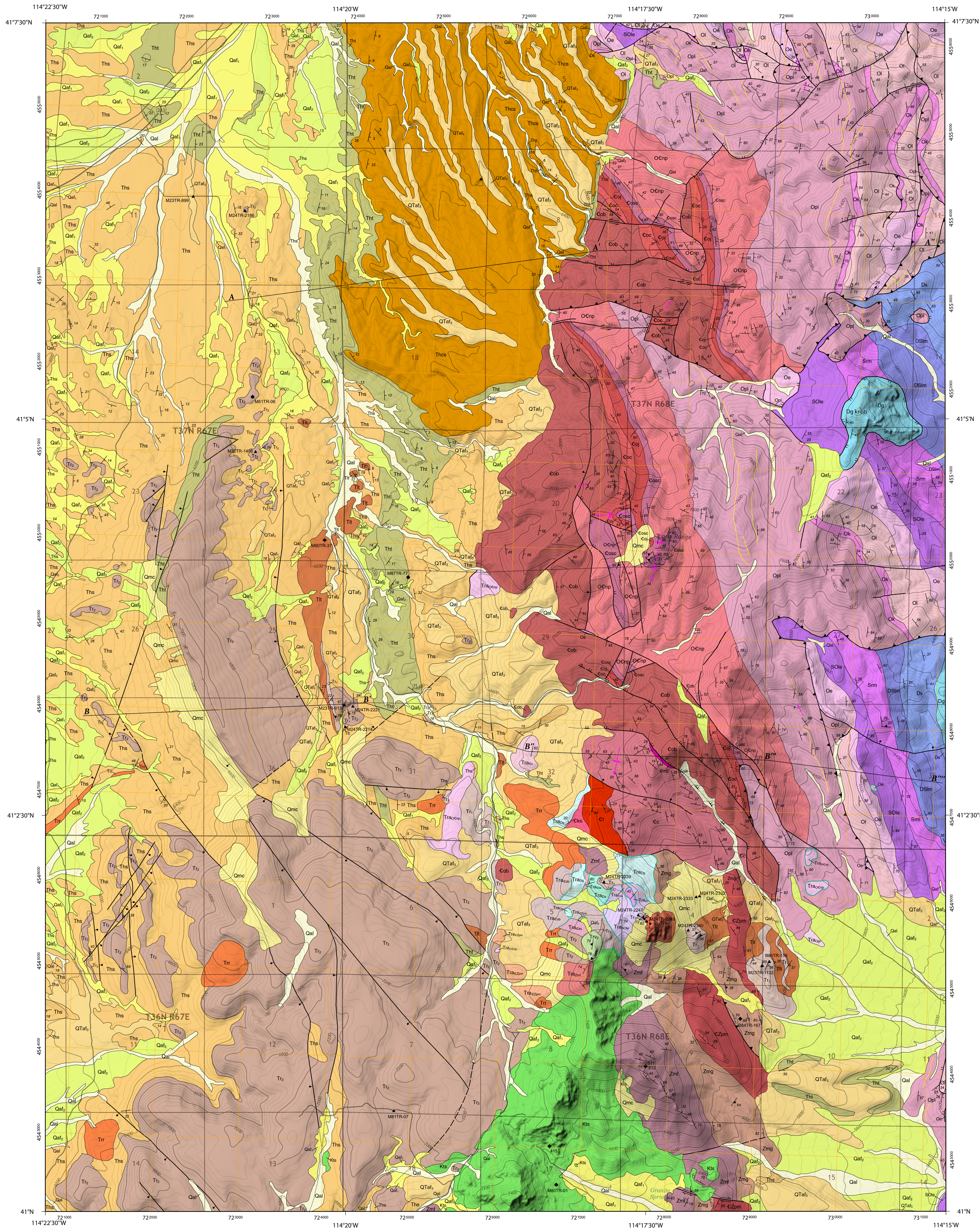
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2026



GEOLOGIC UNITS

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

SURFICIAL DEPOSITS	
Qal	Young alluvium (Holocene)
Qal ₁	Young alluvial fan deposits (Holocene)
Qmc	Colluvium (Holocene)
Qol	Old alluvial fan deposits (Pleistocene)
QTal ₁	Old alluvial fan deposits (Pleistocene and Pliocene)

BEDROCK UNITS

Humboldt Formation (Miocene)

Thcs	Conglomerate and sandstone
Ths	Sandstone
Thi	Tuff

Rhyolite of the Toano Range (Miocene)

Tr ₁	Upper lava flows
Tr ₂	Upper lava flows, vent facies
Tr ₃	Lower lava flows
Tr ₄	Lower lava flows, vent facies
Tr ₅	Rubble and breccia
Tr ₆	Lithic tuff

Rock avalanche masses (Miocene)

Tr _{1a}	Rock avalanche of Guillette Formation
Tr _{1b}	Rock avalanche of Simonson Formation
Tr _{1c}	Rock avalanche of Elly Springs and Laketown dolomites, undivided
Tr _{1d}	Rock avalanche of lower Pogop Group
Tr _{1e}	Rock avalanche of Notch Peak Formation
Tr _{1f}	Rock avalanche of Big Horse Limestone Member of the Orr Formation
Tr _{1g}	Rock avalanche of Clifside Limestone
Tr _{1h}	Rock avalanche of Toano Limestone
Tr _{1i}	Rock avalanche of Killian Springs Formation
Tr _{1j}	Rock avalanche of Prospect Mountain Quartzite
Tr _{1k}	Rock avalanche of McCoy Creek Group Unit F

CRETACEOUS INTRUSIVE ROCKS

Ks	Toano Spring pluton
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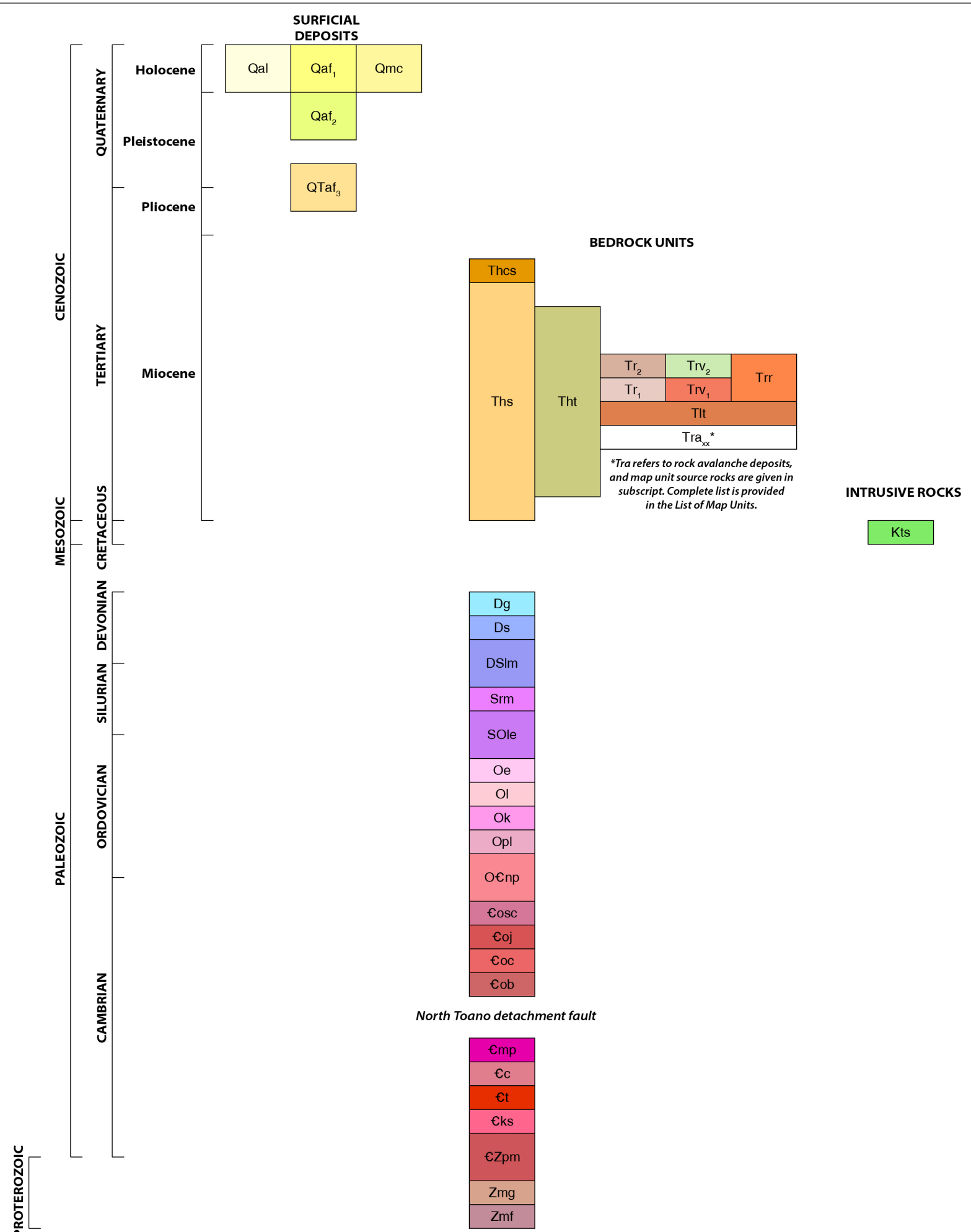
NEOPROTEROZOIC AND PALEOZOIC SEDIMENTARY ROCKS

Dg	Guillette Formation (Devonian)
Ds	Simonson Dolomite (Devonian)
DSlm	Lone Mountain Dolomite (Devonian and Silurian)
SIm	Roberts Mountains Formation (Silurian)
SOs	Elly Springs Dolomite and Laketown Dolomite, undivided (Silurian and Ordovician)
Os	Eureka Quartzite (Ordovician)
OI	Lehman Formation (Ordovician)
OK	Kansosh Shale (Ordovician)
Opl	Lower Pogop Group (Ordovician)
OCrp	Notch Peak Formation (Ordovician and Cambrian)
Orr Formation (Cambrian)	
OCss	Corset Spring Shale and Sneakover Limestone Members
OCw	Johns Wash Limestone Member
OCd	Candleland Shale Member
OCb	Big Horse Limestone Member
OCm	Morgan Pass Formation (Cambrian)
OC	Clifside Limestone (Cambrian)
OCs	Toano Limestone (Cambrian)
OCk	Killian Springs Formation (Cambrian)
OCZm	Prospect Mountain Quartzite (Cambrian and Neoproterozoic)

NEOPROTEROZOIC ROCKS

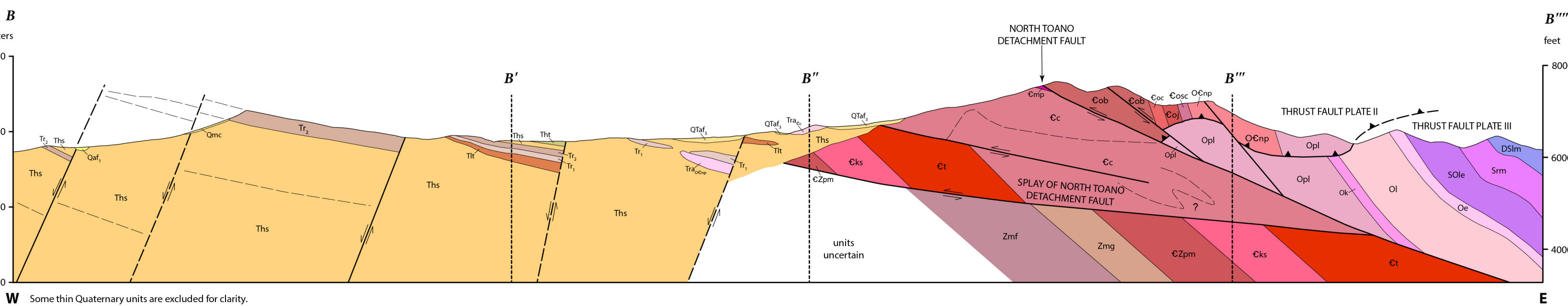
Zmg	Unit G
Zmf	Unit F

CORRELATION OF GEOLOGIC UNITS



MAP SYMBOLS

- Fault** Solid where certain and location accurate; dashed where approximately located; dotted where concealed; queried if identity or existence uncertain.
- Normal fault** Solid where certain and location accurate; dashed where approximately located; dotted where concealed; queried if identity or existence uncertain. Showing bearing and plunge of lineation.
- Strike-slip fault** Solid where certain and location accurate; dashed where approximately located. Arrows show relative motion.
- Thrust fault** Solid where certain and location accurate; dashed where approximately located. Arrows show relative motion.
- Detachment fault** Solid where certain and location accurate; dashed where approximately located. Arrows show relative motion.
- Outline of slip surface of landslide** Solid where certain and location accurate; dashed where approximately located.
- Syncline** Solid where certain and location accurate. Arrow points in the direction of fold plunge.
- Granitic and mafic dikes** Dashed where approximately located.
- Key bed** Solid where certain and location accurate.
- Line of cross section**
- Strike and dip of bedding**
- Strike and dip of igneous foliation**
- Strike and dip of metamorphic foliation**
- Bearing and plunge of minor fold**
- Geochronology sample** Label shows sample number. See table 1 in accompanying text.
- Geochemistry sample** Label shows sample number. See table 2 in accompanying text.



Suggested citation:
Berg, L.L., Miller, D.M., and Gusa, S., 2026. Geologic map of the Cobre SE quadrangle, Elko County, Nevada. Nevada Bureau of Mines and Geology Map 195, scale 1:24,000, 24 p.
<https://doi.org/10.66058/HFWM3612>

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 Cobre SE 7.5' quadrangle (2021)
Hillshade: Derived from QLi2 lidar data from The National Map.

