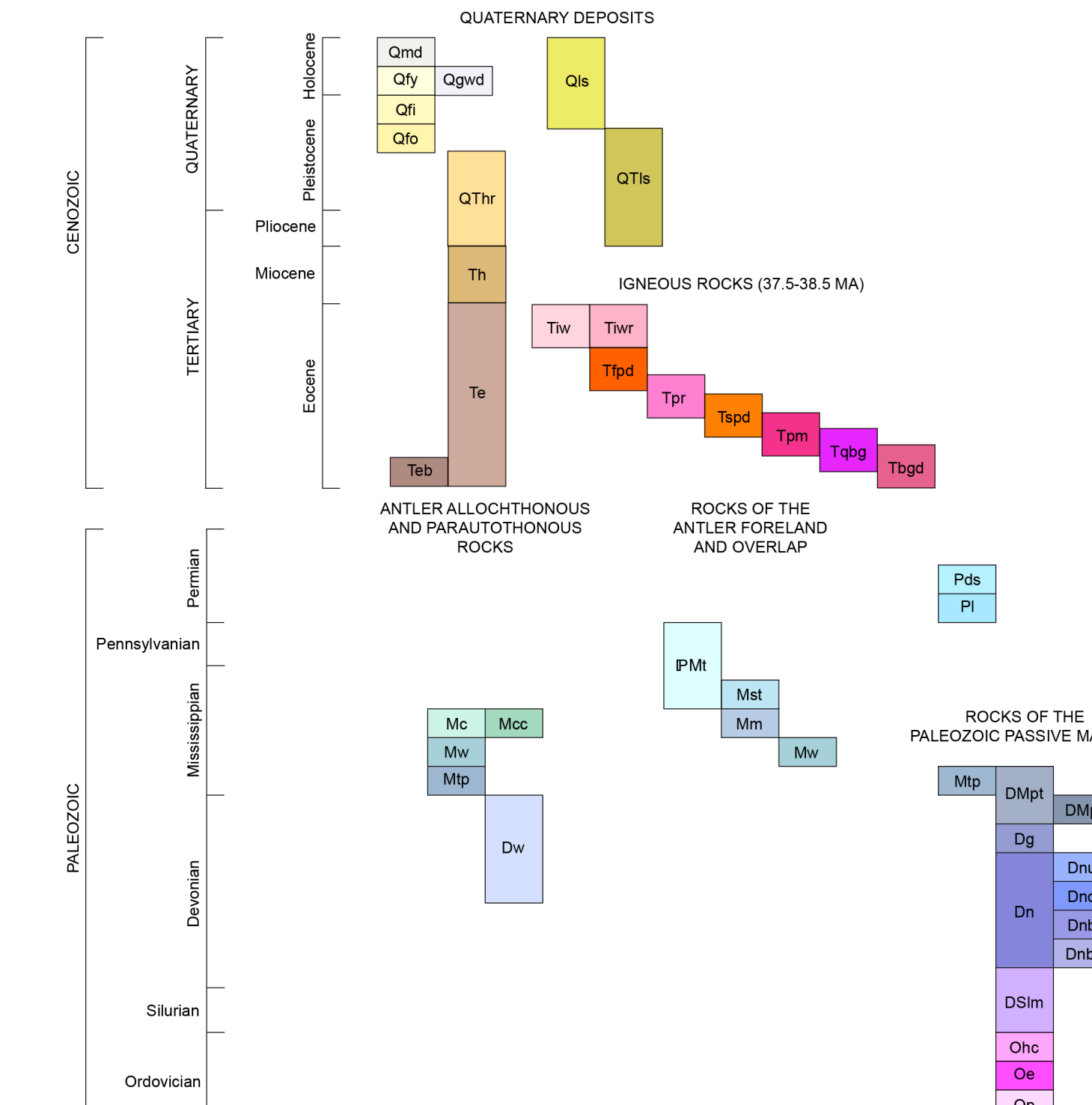


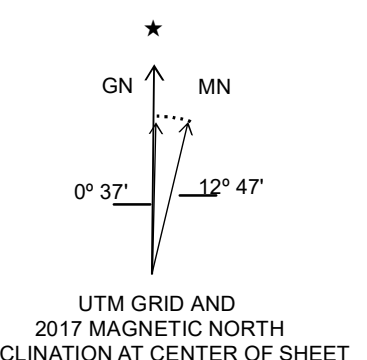
PRELIMINARY GEOLOGIC MAP OF THE RAVENS NEST QUADRANGLE, ELKO AND EUREKA COUNTIES, NEVADA

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2018

- QUATERNARY AND OTHER LATE CENOZOIC DEPOSITS**
 - Qmtd Mine disturbance (Anthropocene)
 - Qgwd Groundwater discharge deposits (Holocene)
 - Qly Young alluvial-fan deposits (Holocene)
 - Qf Intermediate-aged alluvial-fan deposits (late Pleistocene)
 - Qlo Older alluvial-fan deposits (middle Pleistocene)
 - Qls Landslide deposit (Holocene to middle Pleistocene)
 - Qlts Landslide deposit (middle Pleistocene? to Pliocene?)
 - Qlth Hay Ranch Formation (middle Pleistocene to Pliocene)
- ROCKS OF THE MIDDLE MIocene HUMBOLDT BASIN**
 - Th Humboldt Formation (Miocene)
- ROCKS OF THE EOCENE ROBINSON VOLCANIC FIELD**
 - Tw Indian Well Formation, undivided rhyolite and dacite lavas and lesser tuffs (late Eocene)
 - Twr Indian Well Formation, rhyolite lavas and tuffs (late Eocene)
 - FDc Finely porphyritic dacite dikes (late Eocene)
 - FDp Coarsely porphyritic rhyolite dikes and sills (late Eocene)
 - TDp Sparsely porphyritic dacite dikes (late Eocene)
 - TDc Rhyolite dikes of Pine Mountain (late Eocene)
 - TDq Quartz-biotite granite porphyry (late Eocene)
 - FDg Dike granodiorite (late Eocene)
- ROCKS OF THE ELKO BASIN**
 - Le Limestone and fossiliferous sandstone of the Elko Formation (Eocene)
 - Te Matrix-supported basal breccia of the Elko Formation (Eocene)
- ROCKS OF THE PERMIAN STRATHEARN BASIN**
 - Pds Fossiliferous limy sandstone, siltstone, conglomerate, dolomite, pebbly limestone, and limestone (early Permian)
 - Pl Gray limestone, tan silty limestone, and yellow limy siltstone with lesser pebbly cross-bedded sandstone (early Permian)
- ROCKS OF PENNSYLVANIAN-MISSISSIPPIAN ANTLER OVERLAP AFFINITY**
 - PMr Tonka Formation conglomerate (Early Pennsylvanian to Late Mississippian)
 - Mt Basal siltstone of the Tonka Formation (Late or Middle Mississippian)
- ROCKS OF THE ANTLER FORELAND BASIN**
 - Mm Melanco sandstone (Late to Early Mississippian)
- ANTLER FORELAND BASIN ROCKS INVOLVED IN ANTLER HANGING WALL DEFORMATION**
 - Mc Chainman Shale (Late to Early Mississippian)
 - Mcc Chainman Shale, conglomerate and coarse sandstone facies (Late to Early Mississippian)
 - Mw Webb Formation (Early Mississippian)
 - Dw Woodruff Formation (Late to Early Devonian)
- ROCKS OF THE EARLY AND MIDDLE PALEOZOIC PASSIVE MARGIN**
 - Mp Tripson Pass Limestone (Earliest Mississippian)
 - DMp Undivided Webb Formation-Tripson Pass Limestone-Pilot Shale (Early Mississippian to Latest Devonian)
 - Dmp Pilot Shale (Early Mississippian to Late Devonian)
 - Dg Guilmette Limestone (Late Devonian)
 - Dn Nevada Formation, undivided (Middle to Early Devonian)
 - Dnu Upper Nevada Formation dolomite
 - Dny Oxyoke Member, Nevada Formation sandstone
 - Dnb Beacon Peak Member, Nevada Formation dolomite
 - Dnbl Beacon Peak Dolomite Member, Nevada Formation
 - DSm Lone Mountain Dolomite (Early Devonian to Late Silurian)
 - Olc Hanson Creek Formation (Late Ordovician)
 - Oe Eureka Quartzite (Middle Ordovician)
 - Dp Pogonip Group (Middle Ordovician)



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



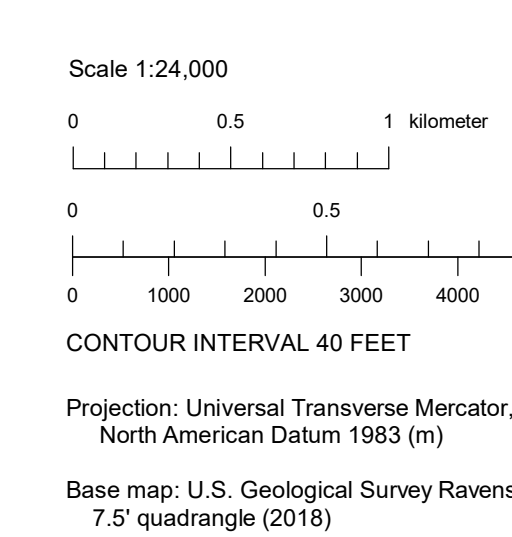
Adjoining 7.5' quadrangle names

1	2	3
4	5	6
7	8	9

1 Carlin West
2 Carlin East
3 Grindstone Mountain
4 Palisade
5 Ravens Nest
6 Bullion
7 McCormack Spring
8 Pogonip Canyon
9 Robinson Mountain

- Contact** Solid where certain, dashed where approximately located, queried if identity or existence uncertain.
- Fault** Dashed where approximately located, dotted where concealed, queried if identity or existence uncertain. Rectangles on hanging wall.
- Normal fault** Dashed where approximately located, dotted where concealed; queried if identity or existence uncertain. Ball on downthrown side. In cross section, arrows show relative motion.
- Thrust fault** Dashed where approximately located, dotted where concealed; queried if identity or existence uncertain. Sawtooth on hanging wall.
- Reverse fault** Dashed where approximately located, dotted where concealed; queried if identity or existence uncertain. Rectangles on hanging wall.
- Anticline** Dashed where approximately located; queried if identity or existence uncertain.
- Syncline** Dashed where approximately located; queried if identity or existence uncertain.
- Overturned anticline** Dashed where approximately located; queried if identity or existence uncertain.
- Dike** Solid where certain, dashed where approximately located.

- Bearing and plunge of minor anticline**
- Sediment transport direction determined from imbrication**
- Strike and dip of bedding**
Inclined Vertical Horizontal
- Strike and dip of foliation in igneous rock**
Inclined Horizontal
- Strike and dip of tectonic foliation**
Inclined Vertical
- Sample locality**
- Alteration**
Hydrothermal alteration including low-temperature clay-quartz-iron oxide or high-temperature metamorphism associated with skarn.
Contact metamorphism including marble, biotite, and siliceous hornfels, and skarnoid alteration associated with Eocene intrusion.
- Line of cross section**



Base map: U.S. Geological Survey Ravens Nest 7.5' quadrangle (2016)

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DRIFT
Preliminary geologic map
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