Geologic Map of the southern Diamond Mountains, Eureka and White Pine Counties, Nevada

Correlation of map units

Quaternary

- Qx — Anthropogenic deposits and altered surfaces
- Qal, Qc — Alluivum (Qal); Colluvium (Qc)
- Qaf, Qalt — Young alluvial fan deposits (Qaf); Alluvial Terrace (Qalt)
- Qoaf — Alluvial fan deposits, inactive
- QTaf — Alluvial fan deposits, old; inactive
- QTg — Capping gravels composed of primarily Paleozoic and Oligocene volcanic rock

Tertiary

- Tbe, Tbdp, Tbcr — Megabreccia; exotic slide block. Tbe sourced from Ely Limestone; Tbdp from Diamond Peak Formation, and Tbcr from Carbon Ridge Formation
- Tj — Jasperoid breccia
- Tps — Pancake Summit Tuff
- Trm — Richmond Mountain Dacite and Andesite
- Trt — Undivided rhyolite tuffs, flow, and surge deposits
- Td — Undivided rhyolitic dikes

Cretaceous

- Knc5 — Newark Canyon Formation member 5: crudely-bedded, sand matrix-supported pebble-cobble conglomerate with abundant white quartzite clasts
- Knc4 — Newark Canyon Formation member 4: thinly interbedded micrite and calcareous siliciclastic mudstone with abundant fossil hash
- Knc3 — Newark Canyon Formation member 3: coarse cross stratified sandstone and chert-clast supported pebble-cobble conglomerate
- Knc2 — Newark Canyon Formation member 2: massive sandstone, siltstone, and silty-sandy micrite
- Knc1 — Newark Canyon Formation member 1: massive micrite and siltstone with interbedded lenses of carbonate clast-supported , crudely bedded to cross stratified pebble-cobble conglomerate

Permian

- Pcru — Carbon Ridge Formation, upper sandstone unit (lower Permian)
- Pcrl — Carbon Ridge Formation, lower limestone unit (lower Permian)

Pennsylvanian

- IPe — Ely Limestone (Lower Pennsylvanian)

Mississippian

- Mdp — Diamond Peak Formation (Upper Mississippian)
- Mc — Chainman Shale (Upper Mississippian)
- Mj — Joanna Limestone (Lower Mississippian)

Devonian

- MDp — Pilot Shale (Upper Devonian - Lower Mississippian)
- Ddg: Ddghc, Ddgm — Devil's Gate limestone (Middle Devonian), locally divided into Hayes Canyon member; Meister member
- Dbs — Bay State dolomite member
- Dw — Woodpecker limestone member
- Dsm — Sentinel Mountain dolostone member
- Dox — Oxyoke Canyon sandstone member
- Dbp — Beacon Peak dolostone member
- Dbpq — Basal quartzite of the Beacon Peak dolostone member

(Dbs–Dbpq: Nevada Formation (Lower Devonian))

Silurian

- Slm — Lone Mountain dolostone

Symbology (as per FGDC-STD-013-2006)

Strike and dip symbols

- 45 — Inclined bedding
- 33 — Overturned bedding
- 10 — Inclined flow-banding, lamination layering, or foliation in volcanic rock
- Horizontal bedding

- conglomerate clast count site
- U-Pb geochronology sample
- intraformational progressive unconformity

Contact - Solid where certain and location is accurate, dashed where approximate, and dotted where concealed.

Normal fault - Solid where certain and location is accurate, dashed where location is approximate, dotted where concealed; queried if uncertain. Ball and bar on downthrown block.

Thrust fault - Solid where certain and location is accurate, dashed where location is approximate, dotted where concealed; queried if uncertain. Teeth/triangle on downthrown block.

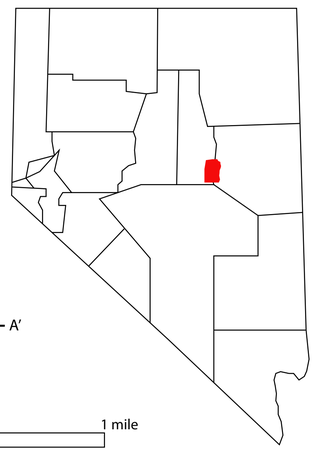
Syncline - Long dashed were location approximate and existence certain, dotted where concealed; arrows show dip direction of limbs.

Anticline - Long dashed were location approximate and existence certain, dotted where concealed; arrows show dip direction of limbs.

Map Location

GN — MN — 12° 21′

MAGNETIC DECLINATION

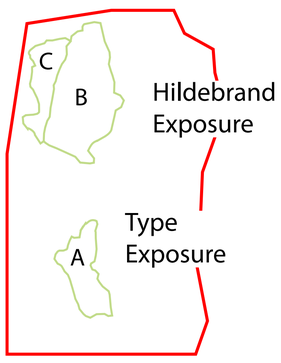


A ——— A′ Line of cross section

Scale 1:24,000

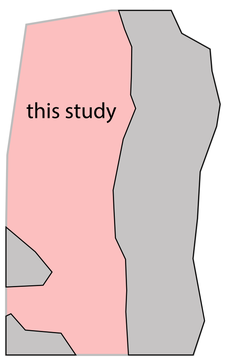
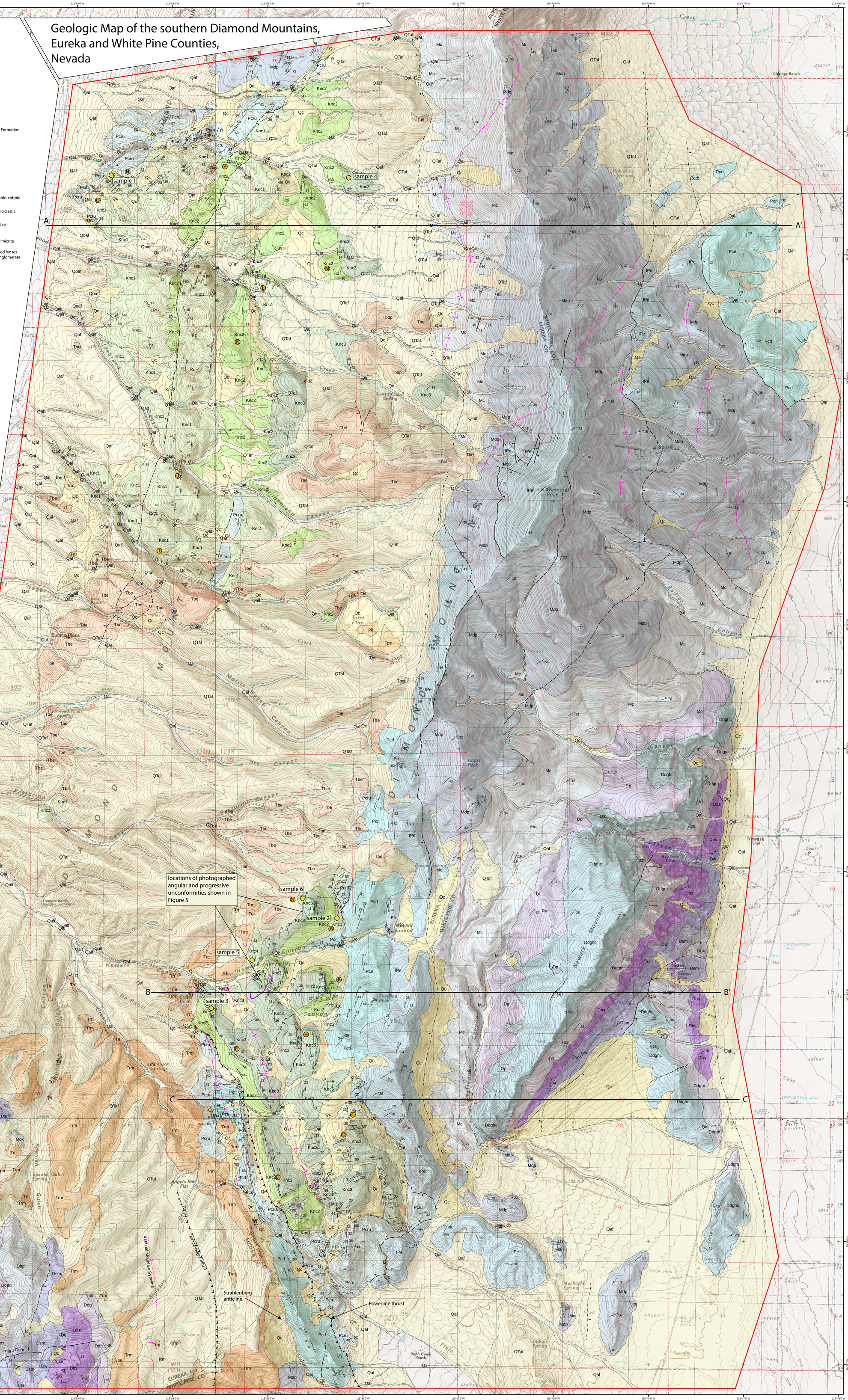
0 — 0.5 — 1 mile

0 — 0.5 — 1 kilometer



NCF exposure location map

source of map data



Geologic data from Nolan et al., 1971 shown in gray