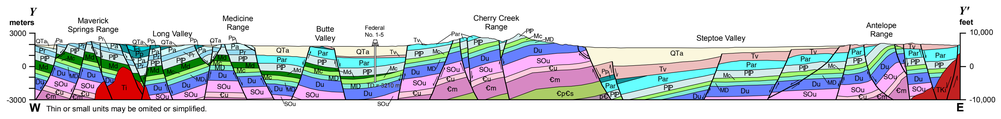
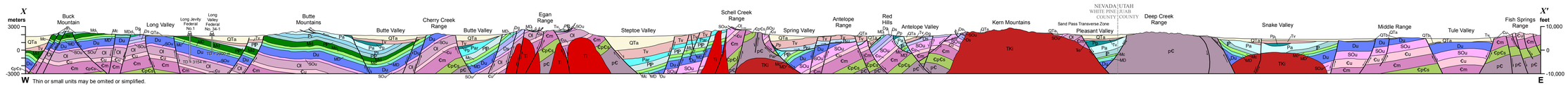
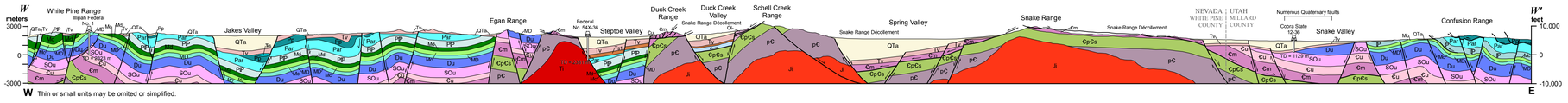
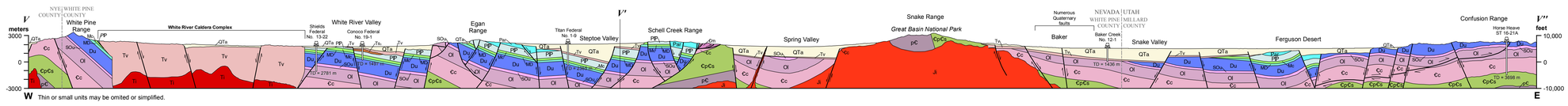
Prepared with support from the Southern Nevada Water Authority

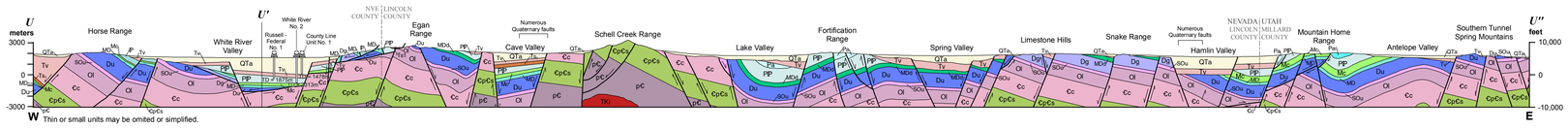
REPORT 56
PLATE 3 OF 4
GEOLOGIC CROSS SECTIONS OF THE NORTHERN PART OF THE STUDY AREA, NEVADA AND UTAH

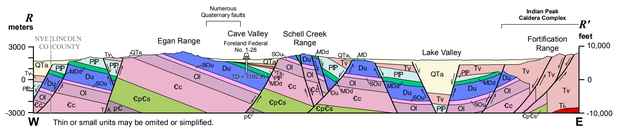


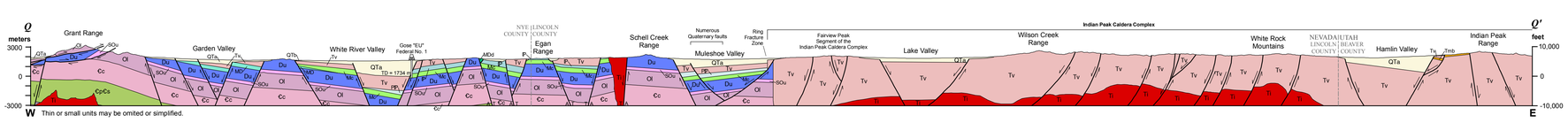


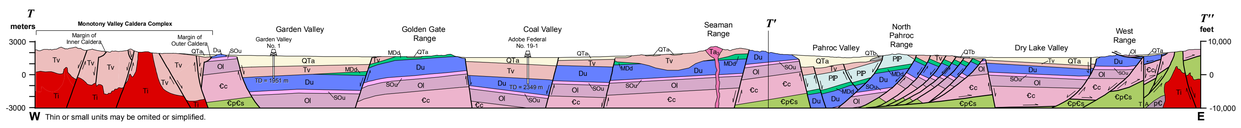


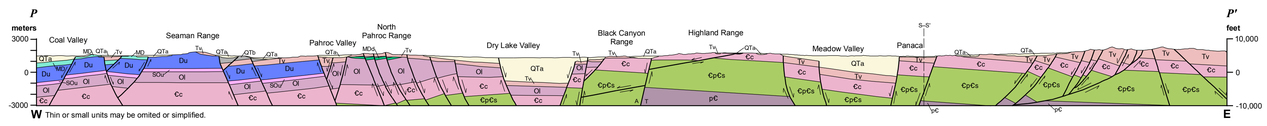


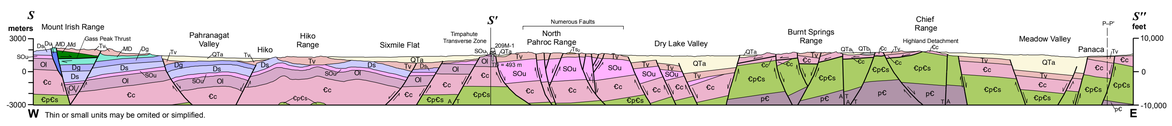


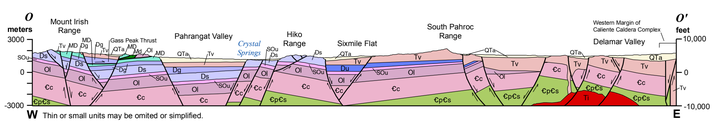


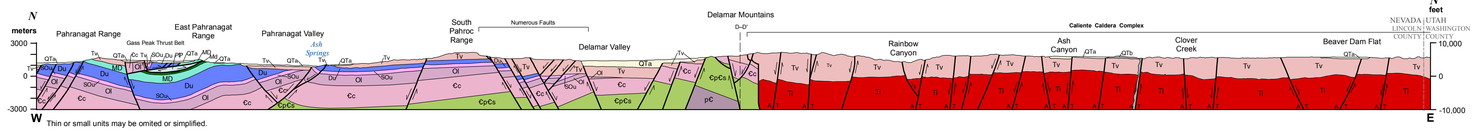


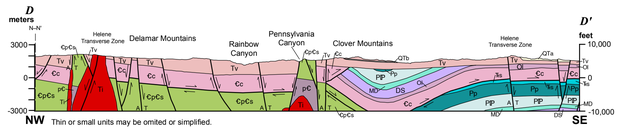


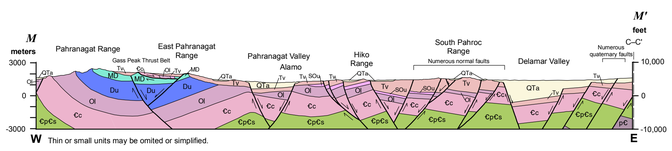


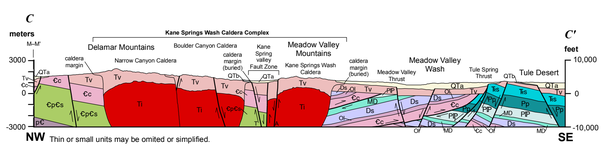












GEOLOGIC CROSS SECTIONS OF THE NORTHERN PART OF THE STUDY AREA, NEVADA AND ARIZONA
PLATE 3 of 4

Peter D. Rowley[1], Gary L. Dixon[2], Edward A. Mankinen[3], Keith T. Pari[4], Darcy K. McPhee[3], Edwin H. McKee[3], Andrew G. Burns[4], James M. Watrus[4], E. Bartlett Ekren[5], William G. Patrick[4], and Judith M. Brandt[4]

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[4]Southern Nevada Water Authority, Las Vegas, NV, [5]Private consultant, White Sulphur Springs, MT

2017

- QTa Surficial and basin-fill deposits (Holocene to lower Miocene)
- QTb Basalt lava flows (Holocene to lower Miocene)
- Ts_4 Sedimentary rocks, unit 4 (Miocene)
- Ts_3 Sedimentary rocks, unit 3 (plate 1 and cross sections) (Miocene to Oligocene)
- Ts_2 Sedimentary rocks, unit 2 (plate 1 and cross sections) (Oligocene)
- Ts_1 Sedimentary rocks, unit 1 (Oligocene to Upper Cretaceous?)
- Tv Volcanic rocks, undivided (cross sections only) (Miocene to Eocene)
- Tt_4 Ash-flow tuff and interbedded ash-fall tuff, unit 4 (Miocene)
- Tt_3 Ash-flow tuff and interbedded ash-fall tuff, unit 3 (Miocene to Oligocene)
- Tt_2 Ash-flow tuff and interbedded ash-fall tuff, unit 2 (Oligocene)
- Tt_1 Ash-flow tuff and interbedded ash-fall tuff, unit 1 (plate 1 and cross sections) (Oligocene to Eocene)
- Tr_4 Rhyolite lava flows, unit 4 (plate 1 and cross sections) (Miocene)
- Tr_3 Rhyolite lava flows, unit 3 (plate 1 and cross sections) (Miocene to Oligocene)
- Tr_2 Rhyolite lava flows, unit 2 (plate 1 and cross sections) (Oligocene)
- Tr_1 Rhyolite lava flows, unit 1 (plate 1 and cross sections) (Oligocene to Eocene)
- Ta_4 Intermediate-composition lava flows, unit 4 (Miocene)
- Ta_3 Intermediate-composition lava flows, unit 3 (Miocene to Oligocene)
- Ta_2 Intermediate-composition lava flows, unit 2 (plate 1 and cross sections) (Oligocene)
- Ta_1 Intermediate-composition lava flows, unit 1 (plate 1 and cross sections) (Oligocene to Eocene)
- Tmb Megabreccia (Miocene to Oligocene)
- Ti Intrusive rocks (Miocene to Paleocene)
- TKi Intrusive rocks (Miocene to Cretaceous)
- Ki Intrusive rocks (plate 1 and cross sections) (Upper Cretaceous)
- Ks Sedimentary rocks, undivided (Upper and Lower Cretaceous)
- Ji Intrusive rocks (plate 1 and cross sections) (Jurassic)
- Js Sedimentary rocks, undivided (plate 2 only) (Jurassic)
- Ts Sedimentary rocks, undivided (Triassic)
- Pu Sedimentary rocks, undivided (cross section only) (Paleozoic)
- Pp Park City Group, undivided (Permian)
- Par Arcturus Formation and Rib Hill Sandstone, undivided (Permian)
- Pa Arcturus Formation (plate 1 and cross sections) (Permian)
- Pr Rib Hill Sandstone (plate 1 and cross sections) (Lower Permian)
- PP Riepe Spring Limestone and Ely Limestone, undivided (Lower Permian to Pennsylvanian)
- IP Ely Limestone (plate 1 and cross sections) (Pennsylvanian)
- MDd Diamond Peak Formation, Chainman Shale, Joana Limestone, and Pilot Shale, undivided (plate 1 and cross sections) (Upper Mississippian to Upper Devonian)
- Md Diamond Peak Formation (Upper Mississippian)
- Mc Chainman Shale (Upper Mississippian)
- MD Joana Limestone and Pilot Shale, undivided (Lower Mississippian to Upper Devonian)
- DC Carbonate and clastic rocks, undivided (plate 1 and cross sections) (Devonian to Upper Cambrian)
- DS Sedimentary rocks, undivided (Devonian to Silurian)
- Du Carbonate sedimentary rocks, undivided (Devonian)
- Dd Devils Gate Formation (plate 1 and cross sections) (Upper to Middle Devonian)
- Dg Guilmette Formation (plate 1 and cross sections), (Upper to Middle Devonian)
- Dn Nevada formation (plate 1 and cross sections) (Middle to Lower Devonian)
- Ds Simonson Dolomite and Sevy Dolomite, undivided (plate 1 and cross sections) (Middle to Lower Devonian)
- SO Sedimentary rocks, undivided (cross sections only) (Silurian to Ordovician)
- SOu Dolomite, upper part, undivided (Silurian to Upper Ordovician)
- Ol Dolomite, lower part, undivided (Middle to Lower Ordovician)
- Cc Carbonate sedimentary rocks, undivided (Cambrian)
- Cu Limestone and shale, upper part, undivided (Lower Ordovician? to Upper Cambrian)
- Cm Limestone and shale, middle part, undivided (Upper to Middle Cambrian)
- CpCs Sedimentary rocks, lower part (Middle Cambrian to Neoproterozoic)
- pC Metamorphosed and crystalline basement rocks (Neoproterozoic to Paleoproterozoic)

See report for full unit descriptions and references for this map.

Contact As shown in cross section.

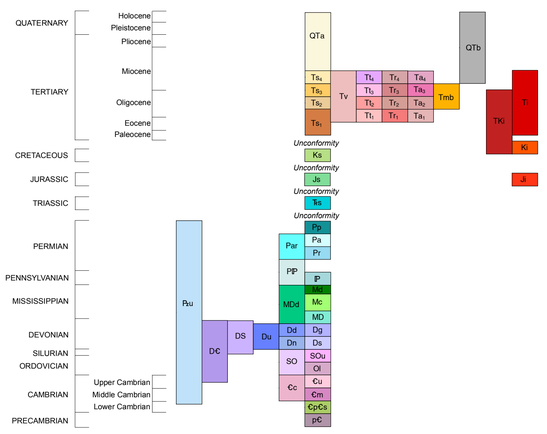
Fault Arrows show relative motion. "T" indicates motion towards observer, "A" away from observer.

Scale 1:250,000

0 7 14 Kilometers
0 5 10 Miles
0 10,000 20,000 30,000 40,000 Feet

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

Base map: Derived from USGS National Elevation Dataset 10m Digital Elevation Model



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