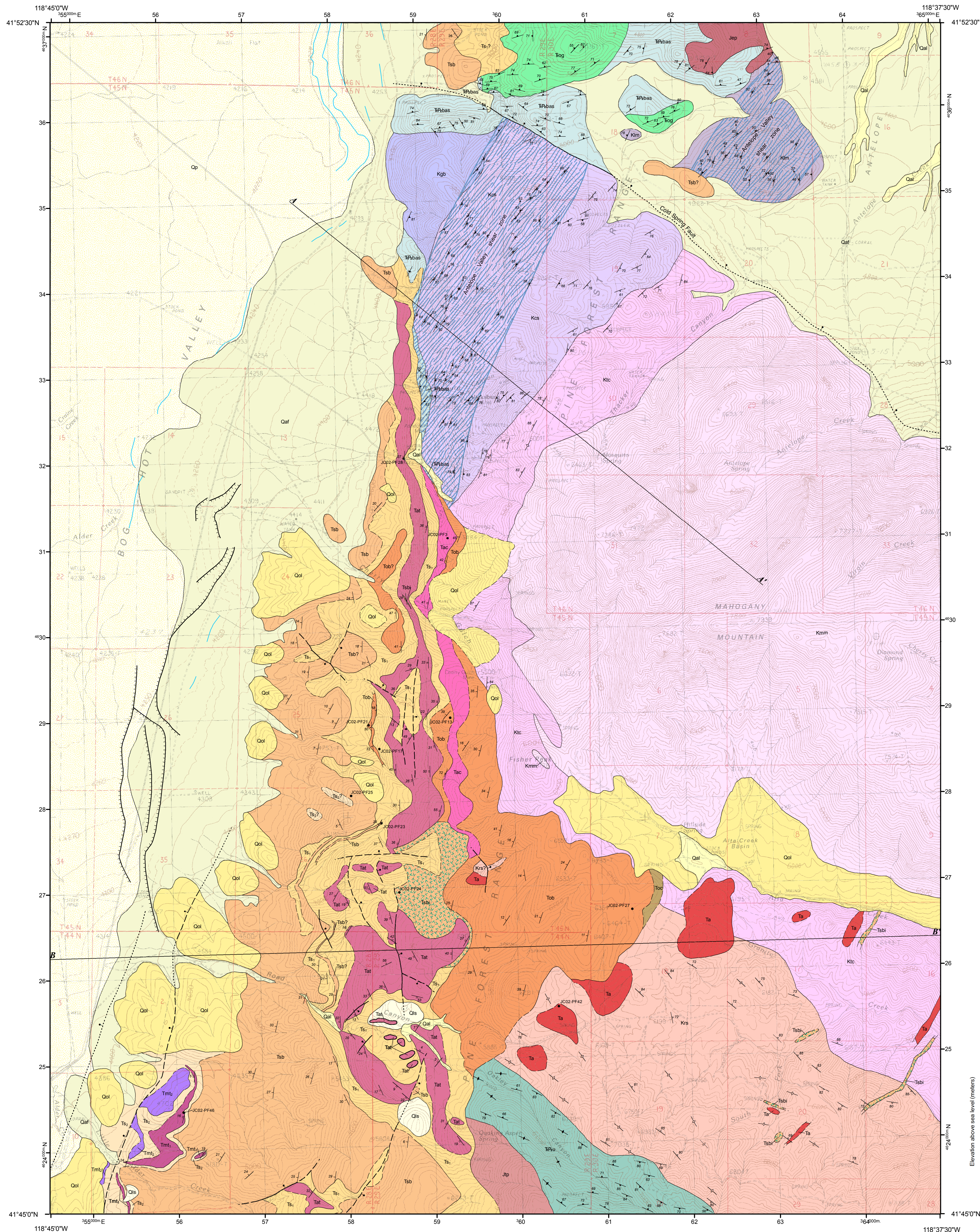


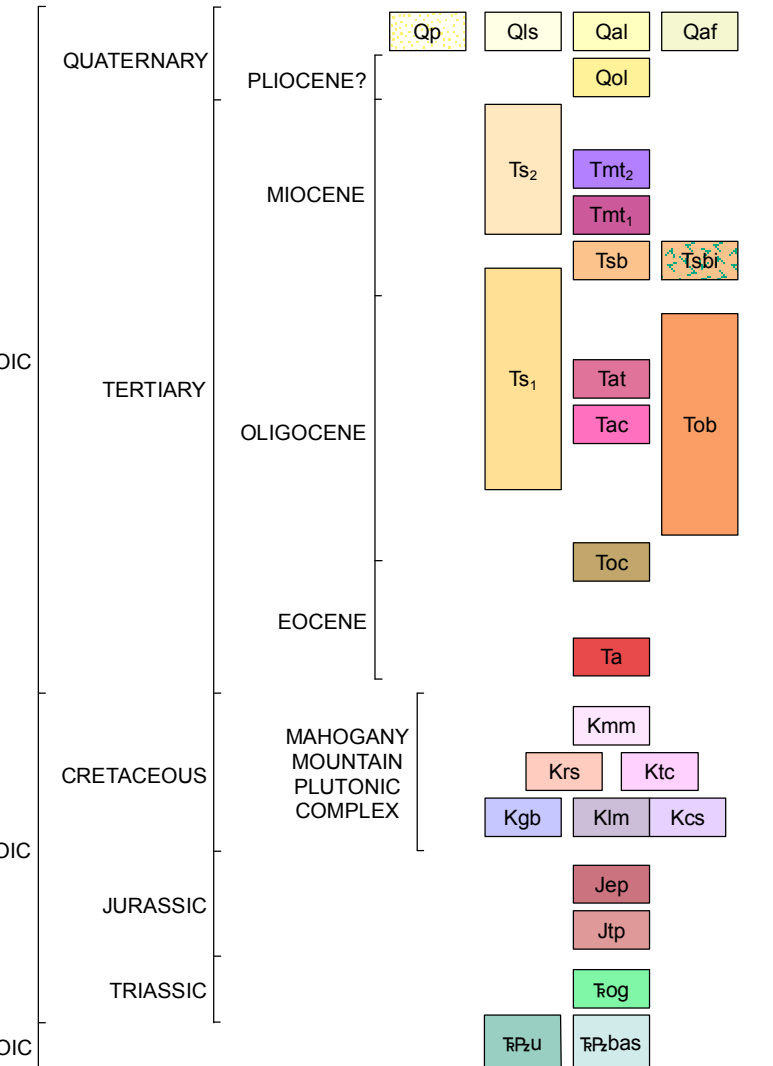
GEOLOGIC MAP OF THE VICKSBURG CANYON QUADRANGLE, HUMBOLDT COUNTY, NEVADA

Joseph P. Colgan, Sandra J. Wyld, and James E. Wright
2010



- Qal Alluvium (Holocene)
 - Qp Playa lake deposits (Pleistocene to Holocene)
 - Qls Landslide deposits (Pliocene? to Holocene)
 - Qaf Alluvial fan deposits (Pliocene? to Holocene)
 - Qol Older alluvium (Pliocene?)
 - Ts₂ Tuffaceous sedimentary rocks (Miocene)
 - Tmt₁ Upper welded ash-flow tuff (Miocene)
 - Tmt₂ Lower welded ash-flow tuff (Miocene)
 - Tsb Steens Basalt (Miocene)
 - Tsb₁ Steens Basalt (intrusive) (Miocene)
 - Ts₁ Tuffaceous sedimentary rocks (Oligocene and Miocene)
 - Tat Ashdown Tuff (Oligocene)
 - Tac Tuff of Alder Creek (Oligocene)
 - Tob Older basalt flows (Oligocene)
 - Toc Conglomerate (Eocene to Oligocene)
 - Ta Andesitic intrusive rocks (Eocene)
- Mahogany Mountain Plutonic Complex**
- Kmm Mahogany Mountain granodiorite (Cretaceous)
 - Krs Rattlesnake Spring Granodiorite (Cretaceous)
 - Klc Thacker Canyon granodiorite (Cretaceous)
 - Klm Lone Mountain quartz monzodiorite (Cretaceous)
 - Kcs Cold Spring quartz monzodiorite (Cretaceous)
 - Kgb Gabbro (Cretaceous)
- Jurassic Intrusive Rocks**
- Jp Emigrant Pass granite (Jurassic)
 - Jb Theodore Quartz Diorite (Jurassic)
- Metamorphic Rocks**
- Tog Orthogneiss (Triassic)
 - Tbas Biotite and amphibole schist (Paleozoic or Triassic?)
 - Tpu Schist and gneiss, undivided (Paleozoic or Triassic?)

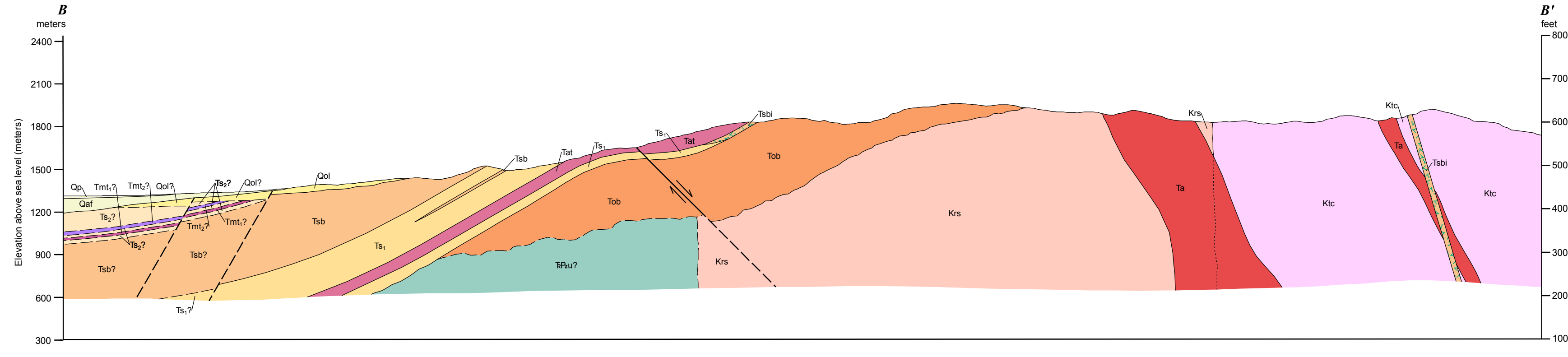
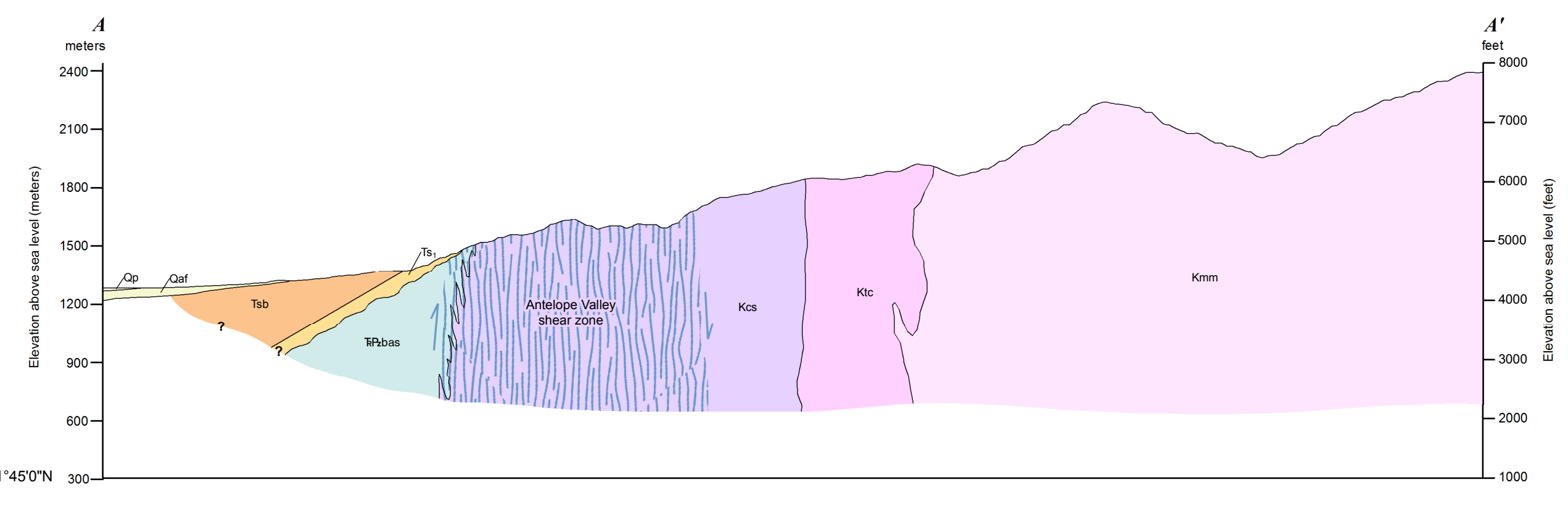
See accompanying text for full unit descriptions and references for this map.



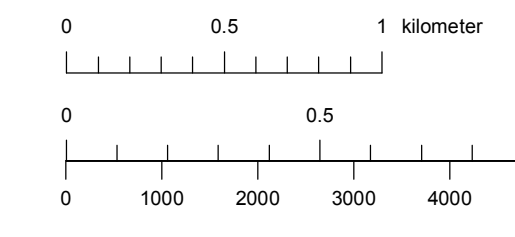
Symbology (per FGDC-STD-013-2006)

- Contact** Solid where located to ±15 meters, dashed where located within ±30 meters, dotted where concealed.
 - Normal fault** Solid where located to ±15 meters, dashed where located within ±30 meters, dotted where concealed. Ball on downthrown side.
 - Late Quaternary fault scarp** Solid where certain and location accurate. Hachure on downthrown side. From Personius et al. (2007).
 - Pluvial Lake Alford shoreline** From Personius et al. (2007).
 - Line of cross section** A-A'
 - Sample locality** Ar-Ar
 - Antelope Valley shear zone**
- Strike and dip of bedding** 45° Inclined
 - Strike and dip of compaction foliation in ash-flow tuff** 45° Inclined
 - Strike and dip of magmatic foliation in plutonic rocks** 33° Inclined, Vertical
 - Strike and dip of tectonic (non-mylonitic) foliation** 25° Inclined, Vertical
 - Strike and dip of mylonitic foliation in shear zone** 45° Inclined, Vertical
 - Trend and plunge of metamorphic lineation** 27°
 - Landslide block of Tat**

Geology of Paleozoic and Mesozoic rocks by S.J. Wyld and J.E. Wright (1992-1994 and 2003).
Geology of Tertiary rocks by J.P. Colgan (2002-2003 and 2006). Quaternary faults and shorelines from Personius et al. (2007).

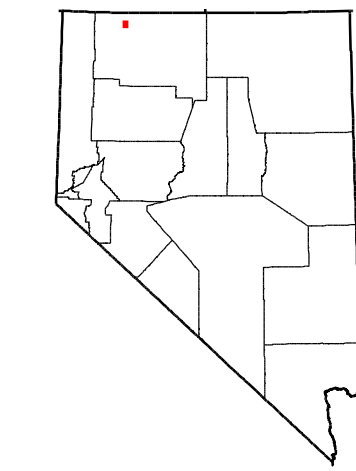


Scale 1:24,000



Adjoining 7.5' quadrangle names

- | | | |
|---|---|---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |
| 7 | 8 | 9 |
- 1 Bog Hot Springs
 - 2 Denio
 - 3 Wilder Creek Ranch
 - 4 Alder Creek Ranch
 - 5 Vicksburg Canyon
 - 6 Denio Summit
 - 7 Knott Creek
 - 8 Duffer Peak
 - 9 Howard Hot Spring



CONTOUR INTERVAL 40 FEET
SUPPLEMENTARY CONTOUR INTERVAL 10 FEET
Projection: Universal Transverse Mercator, Zone 11,
North American Datum 1927 (m)
Base map: U.S. Geological Survey Vicksburg Canyon
7.5' quadrangle (provisional edition 1990)

Nevada Bureau of Mines and Geology
Mackay School of Earth Sciences and Engineering
College of Science
University of Nevada, Reno

Field work done by Colgan (2002-2003 and 2006),
Wyld and Wright (1992-1994 and 2003)
Supported by the Geological Society of Nevada

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