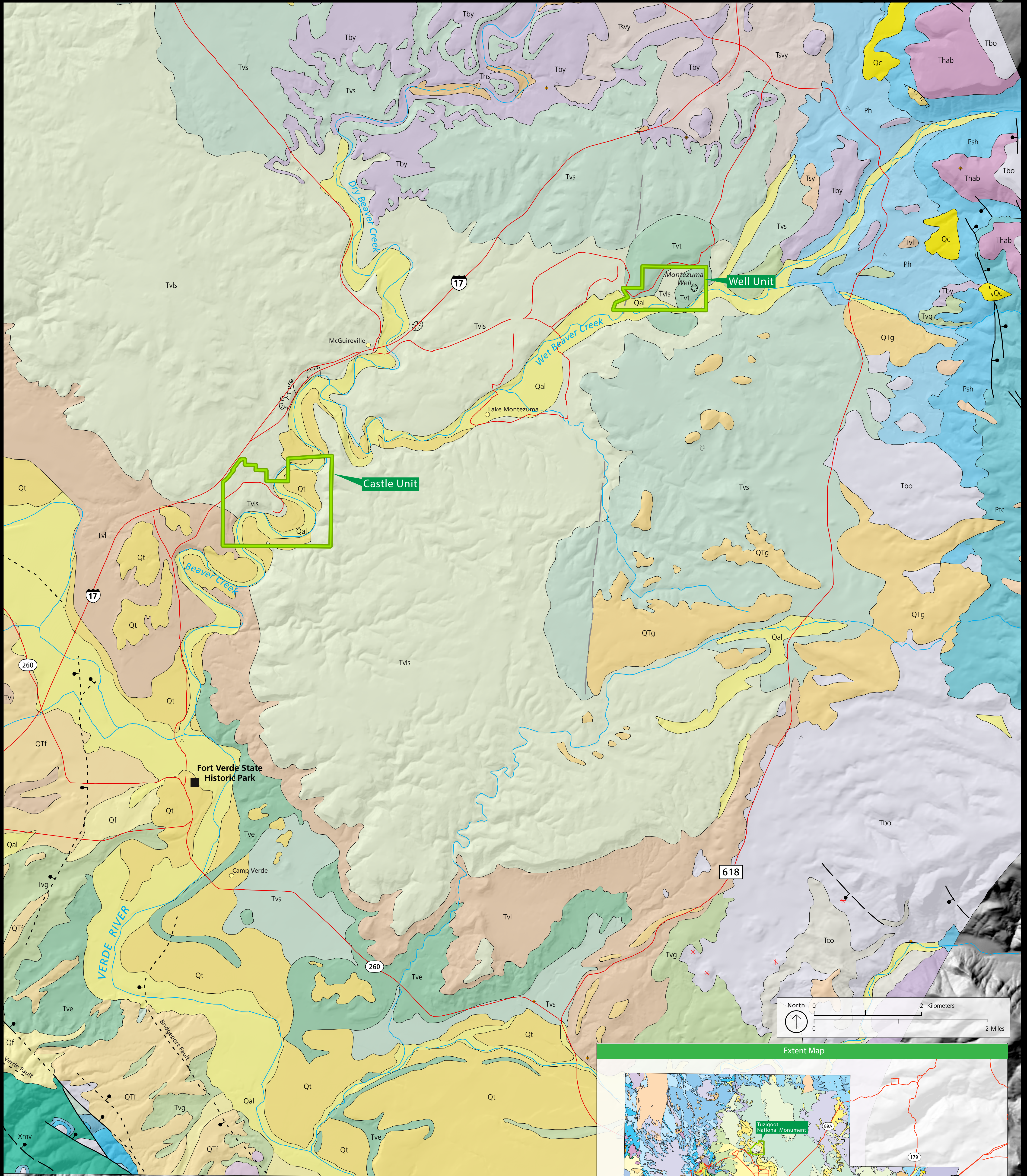


# Geologic Map of Montezuma Castle National Monument

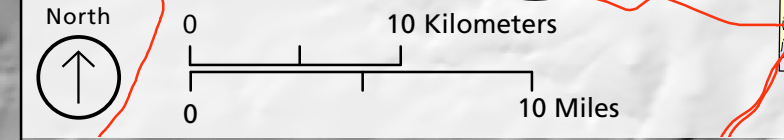
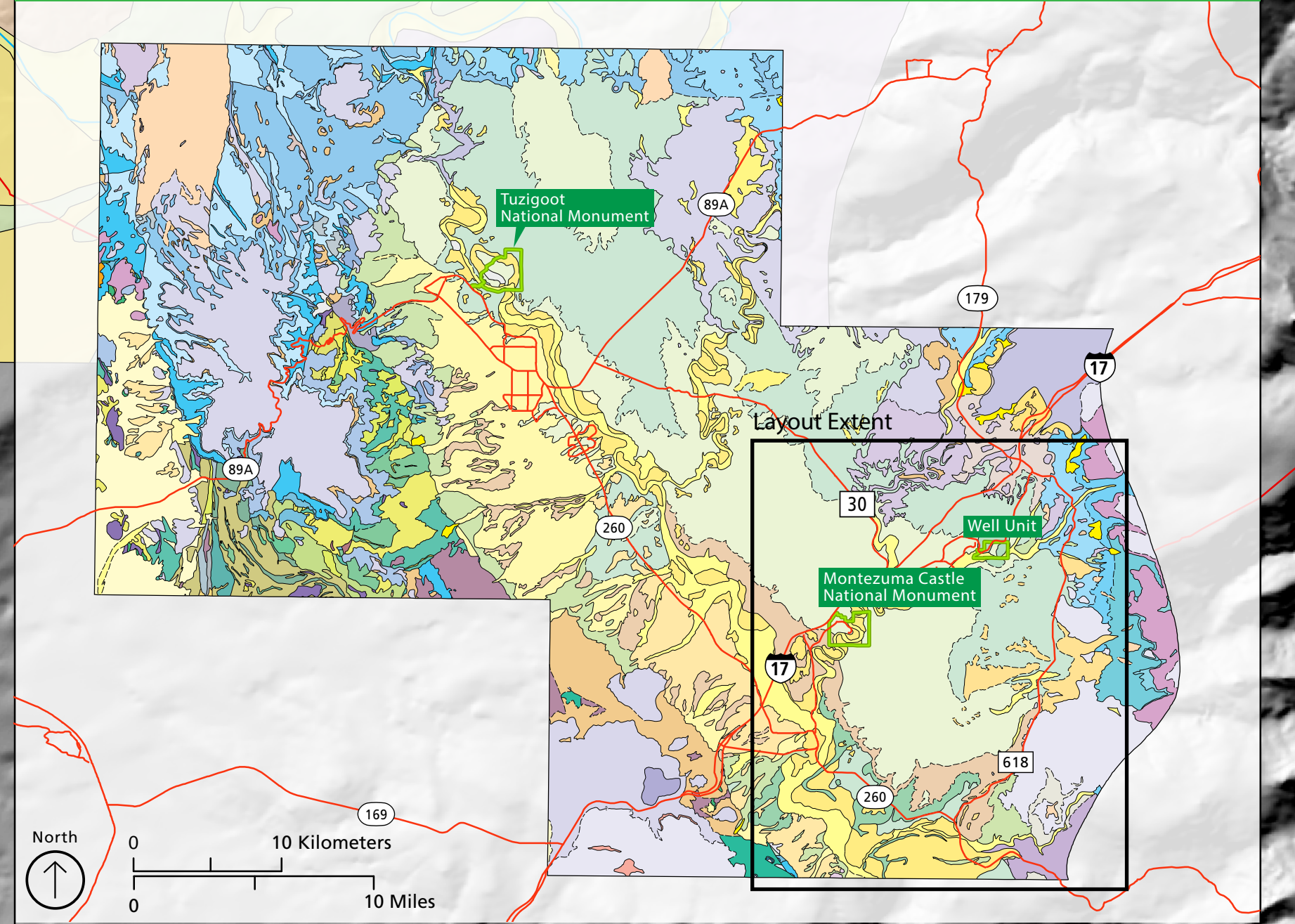
Arizona

National Park Service  
U.S. Department of the Interior

Geologic Resources Inventory  
Natural Resource Stewardship and Science



Extent Map



<b>NPS Boundary</b> [Green outline symbol]	<b>Geologic Contacts</b> — known or certain - - - concealed - · - · - approximate — quadrangle boundary — map boundary	Tsvy Younger volcanic and sedimentary rocks, sedimentary and volcanic (Pliocene and Miocene) Tsy Younger volcanic and sedimentary rocks, sedimentary (Pliocene and Miocene) Tbo Older volcanic and sedimentary rocks, alkali basalt (Miocene) Tbo Older volcanic and sedimentary rocks, basalt (Miocene) Tco Older volcanic and sedimentary rocks, cinders and cinder cones (Miocene) Thab Hickey Formation, alkali basalt (Miocene) Ths Hickey Formation, sedimentary rocks (Miocene) Ptc Toroweap Formation and Coconino Sandstone (Lower Permian) Psh Schnebly Hill Formation (Lower Permian) Ph Hermit Formation (Lower Permian) Mr Redwall Limestone (Mississippian) Dm Martin Formation (Upper and Middle? Devonian) Ct Tapeats Sandstone (Middle and Lower Cambrian) Xmv Mafic rocks (Early Proterozoic)
<b>Infrastructure</b> — Roads — Streams	<b>Geologic Units</b> Qal Alluvium (Holocene) Qc Colluvium and sedimentary breccia (Holocene and Pleistocene) Qf Fanglomerate (Holocene and Pleistocene) Qt Terrace gravel (Holocene and Pleistocene) QTI Landslide deposits (Holocene to Pliocene) QTF Fanglomerate (Pleistocene and Pliocene) QTg Gravel (Pleistocene and Pliocene) QTS Sedimentary rocks (Pleistocene and Pliocene) Verde Formation Tvt Verde Formation, travertine (Pliocene) Tvs Verde Formation, undivided sedimentary rocks (Pliocene and Miocene) Tvl Verde Formation, lacustrine rocks (Pliocene and Miocene) Tvls Verde Formation, limestone (Pliocene and Miocene) Tvg Verde Formation, gravel (Pliocene and Miocene) Tve Verde Formation, evaporite beds (Miocene) Tby Younger volcanic and sedimentary rocks, basalt (Pliocene and Miocene) Tdy Younger volcanic and sedimentary rocks, dacite (Pliocene and Miocene)	
<b>Geologic Sample Localities</b> ○ major and minor element geochemistry, single sample △ selected element geochemistry, single sample ○ major and minor element geochemistry, multiple samples ◆ K-Ar age-date locality * volcanic center	<b>Hazard Feature Lines</b> — landslide escarpment/scarp, known or certain — collapse structure, known or certain	
<b>Geologic Line Features</b> — lineament, known or certain	<b>Faults</b> — normal fault, known or certain — fault down-side (bar and ball) indicator - - - normal fault, approximate - · - · - normal fault, concealed — unknown offset/displacement, known or certain - - - unknown offset/displacement, approximate - · - · - unknown offset/displacement, concealed	

**This map displays geologic map data compiled by the National Park Service Geologic Resources Inventory. It is not a substitute for site-specific investigations.**

**Source Map**  
DeWitt, E., V.E. Langenheim, E. Force, R.K. Vance, P.A. Lindberg, and R.L. Driscoll. 2008. Geologic map of the Prescott National Forest and the Headwaters of the Verde River, Yavapai and Coconino Counties, Arizona (scale 1:100,000). SIM-2996. US Geological Survey, Reston, Virginia.

**Source Scale** 1:100,000  
According to US National Map accuracy standards, features are within 51 m (167 ft) of their true location.

**Poster Layout**  
Dylan Rolley and Georgia Hybels (Colorado State University)

**Poster Date**  
October 2019

**GRI Data Date**  
May 2006

All Geologic Resources Inventory geologic map data and publications are available at <http://go.nps.gov/gripubs>.