

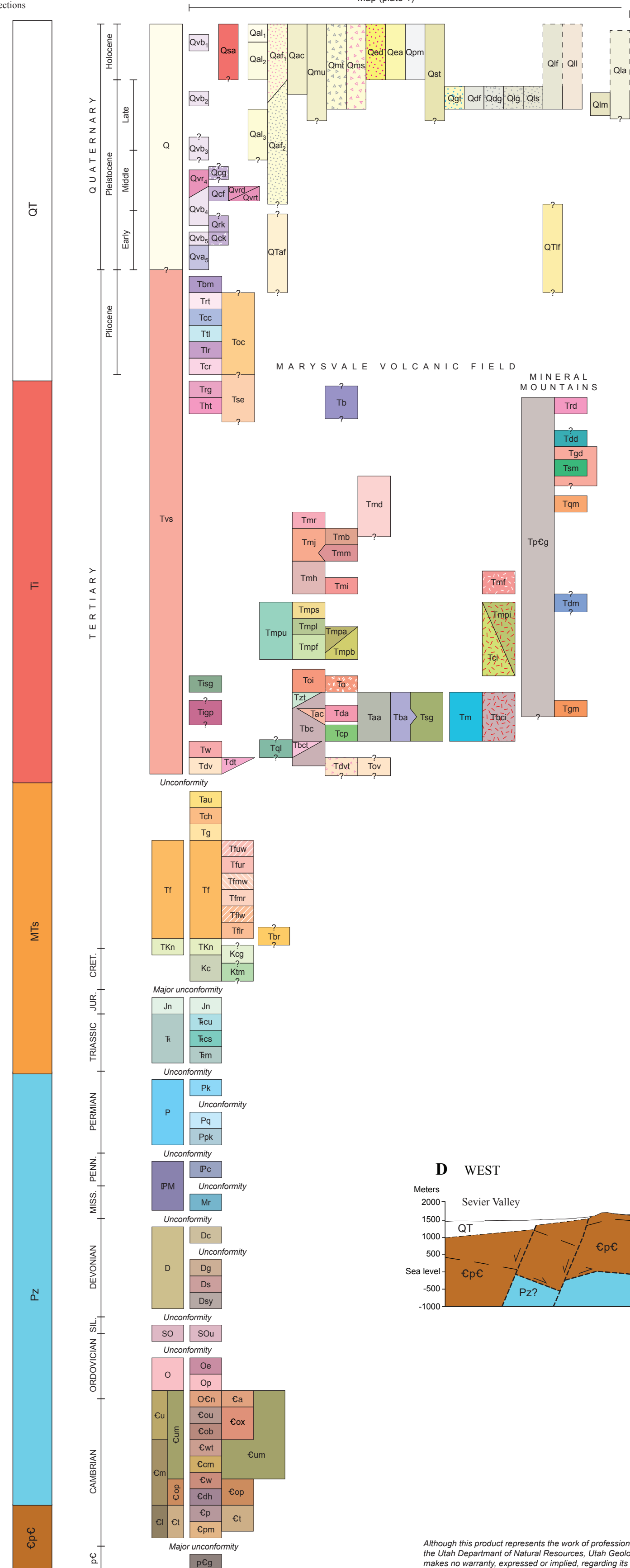
Hydrostratigraphic units  
shown on cross sections

CORRELATION OF GEOLOGIC UNITS

EXPLANATION

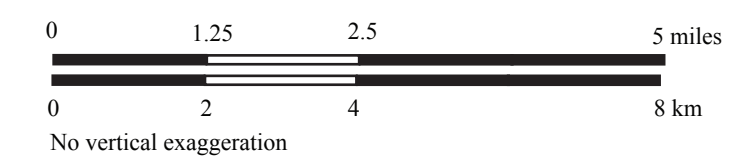
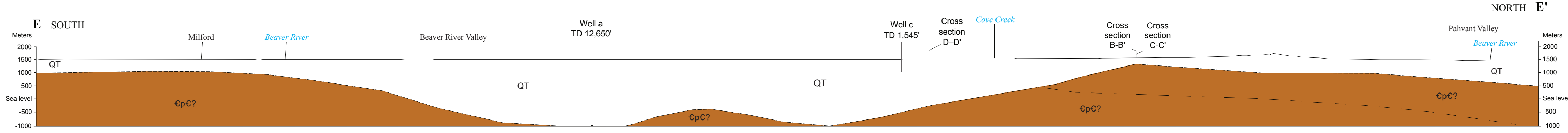
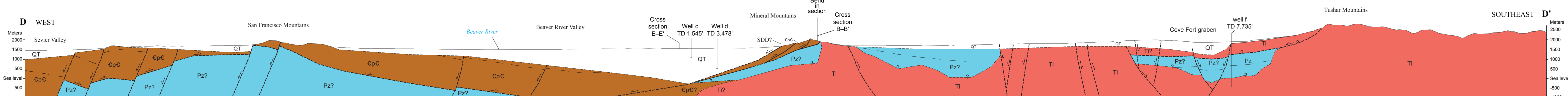
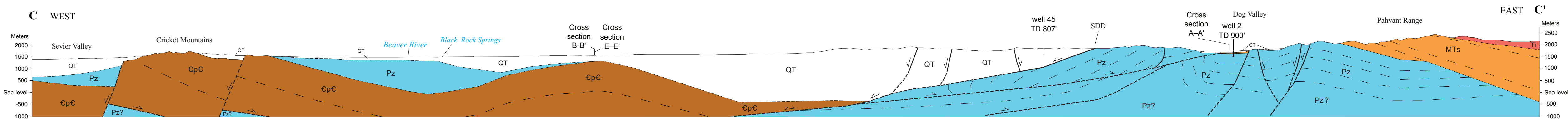
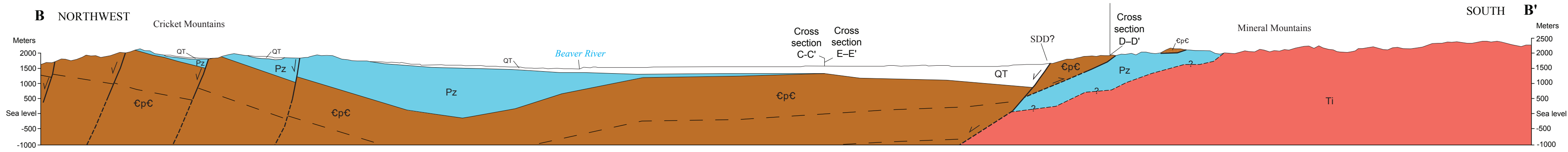
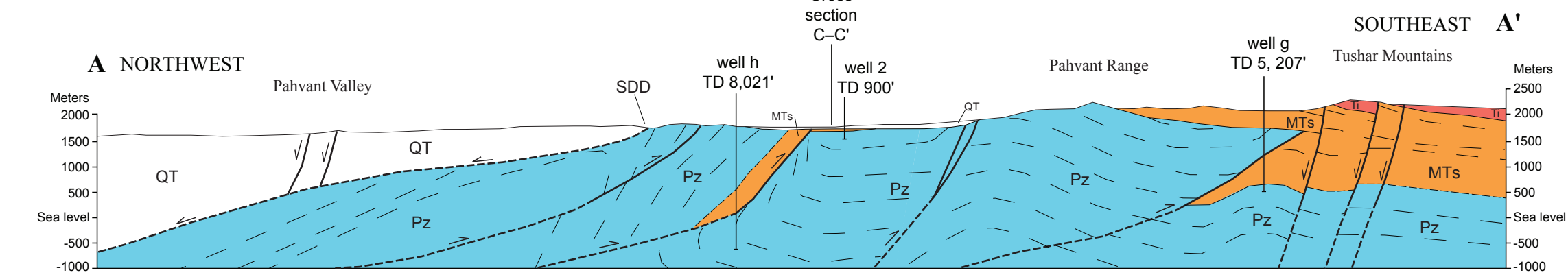
SYMBOLS

SOURCES USED TO CONSTRUCT CROSS SECTIONS



- EXPLANATION**
- QT High to moderate-permeability Quaternary and Tertiary basin fill; includes sedimentary basin fill and volcanics
  - TI Low-permeability Tertiary plutonic and volcanic rocks; includes igneous rocks of the Mineral Mountain and Tushar Mountains and rocks associated with Marysvalde volcanic field
  - MTs Moderate-permeability Mesozoic and early Tertiary sedimentary rocks; includes sandstone, mudstone, shale, and minor carbonate
  - Pz Moderate to high-permeability Paleozoic carbonates; includes limestone, dolomite, also includes minor sandstone, siltstone, and shale
  - CpC Low-permeability Precambrian and Lower Cambrian rocks; includes quartzite, phyllite, shale, and minor limestone; also includes Precambrian metamorphic rocks
- SYMBOLS**
- Fault; dashed where approximately located; arrow gives relative slip direction
  - Contact; dashed where approximately located
  - Well; ID corresponds with tables A.1 and A.2; TD is total depth
  - SDD Sevier Desert detachment (see discussion in text under "cross sections")

- SOURCES USED TO CONSTRUCT CROSS SECTIONS**
- Davis, R.L., 1983. Geology of the Dog Valley-Red Ridge area, southern Pavant Mountains, Millard County, Utah. Brigham Young University Geology Studies, v. 30, part 1, p. 19-36, scale 1:24,000.
  - George, S.E., 1985. Geology of the Fillmore and Kanosh quadrangles, Millard County, Utah. Brigham Young University Geology Studies, v. 32, part 1, p. 39-62, scale 1:24,000.
  - Hintze, L.H., 1984. Geology of the Cricket Mountains, Millard County, Utah: U.S. Geological Survey Open-File Report 84-683, 9 plates, scale 1:24,000.
  - Hintze, L.H., and Davis F.D., 2002. Geologic map of the Wah Wah Mountains North 30' x 60' quadrangle and part of the Garrison 30' x 60' quadrangle, southwest Millard County and part of Beaver County, Utah: Utah Geological Survey Map 182, 2 plates, scale 1:100,000.
  - Hintze, L.H., and Davis, F.D., 2003. The geology of Millard County, Utah: Utah Geological Survey Bulletin 133, 305 p.
  - Hintze, L.H., Davis, F.D., Rowley, P.D., Cunningham, C.G., Steven, T.A., and Willis, G.C., 2003. Geologic map of the Richfield 30' x 60' quadrangle, southeast Millard County, and parts of Beaver, Piute, and Sevier Counties, Utah: Utah Geological Survey Map 195, 2 plates, scale 1:100,000.
  - Nash, W.P., 1981. Geologic map of the South Twin Peak-Cove Creek area, west-central Utah: Unpublished report, University of Utah Department of Geology and Geophysics, 12 p., scale 1:24,000.
  - Rowley, P.D., Vice, G.E., McDonald, R.E., Anderson, J.J., Machette, M.N., Maxwell, D.J., Ekren, E.B., Cunningham, C.G., Steven, T.A., and Wardlaw, B.R., 2005. Interim geologic map of the Beaver 30' x 60' quadrangle, Beaver, Piute, Iron, and Garfield Counties, Utah: Utah Geological Survey Open-File Report 454, 27 p., 1 plate, scale 1:100,000.
  - Salus, R.W., and Jachens, R.C., 1995. Gravity and basin-depth maps of the Basin and Range Province, western United States: U.S. Geological Survey Map GP-1012, scale 1:2,500,000.



Although this product represents the work of professional scientists, the Utah Department of Natural Resources, Utah Geological Survey, makes no warranty, expressed or implied, regarding its suitability for a particular use. The Utah Department of Natural Resources, Utah Geological Survey, shall not be liable under any circumstances for any direct, indirect, special, incidental, or consequential damages with respect to claims by users of this product.