

Figure 2—Correlation chart of Paleozoic rocks along cross section I-I' in Kentucky and Virginia. Geologic time scale from Gradstein and others (2004) except as noted. Abbreviations are as follows: eqgsh, equivalent; fm, Formation; Ls, Limestone; Ma, million years (mega-annum) before present; Mid., middle; mbr., member; Sh., Shale; Ss., sandstone.

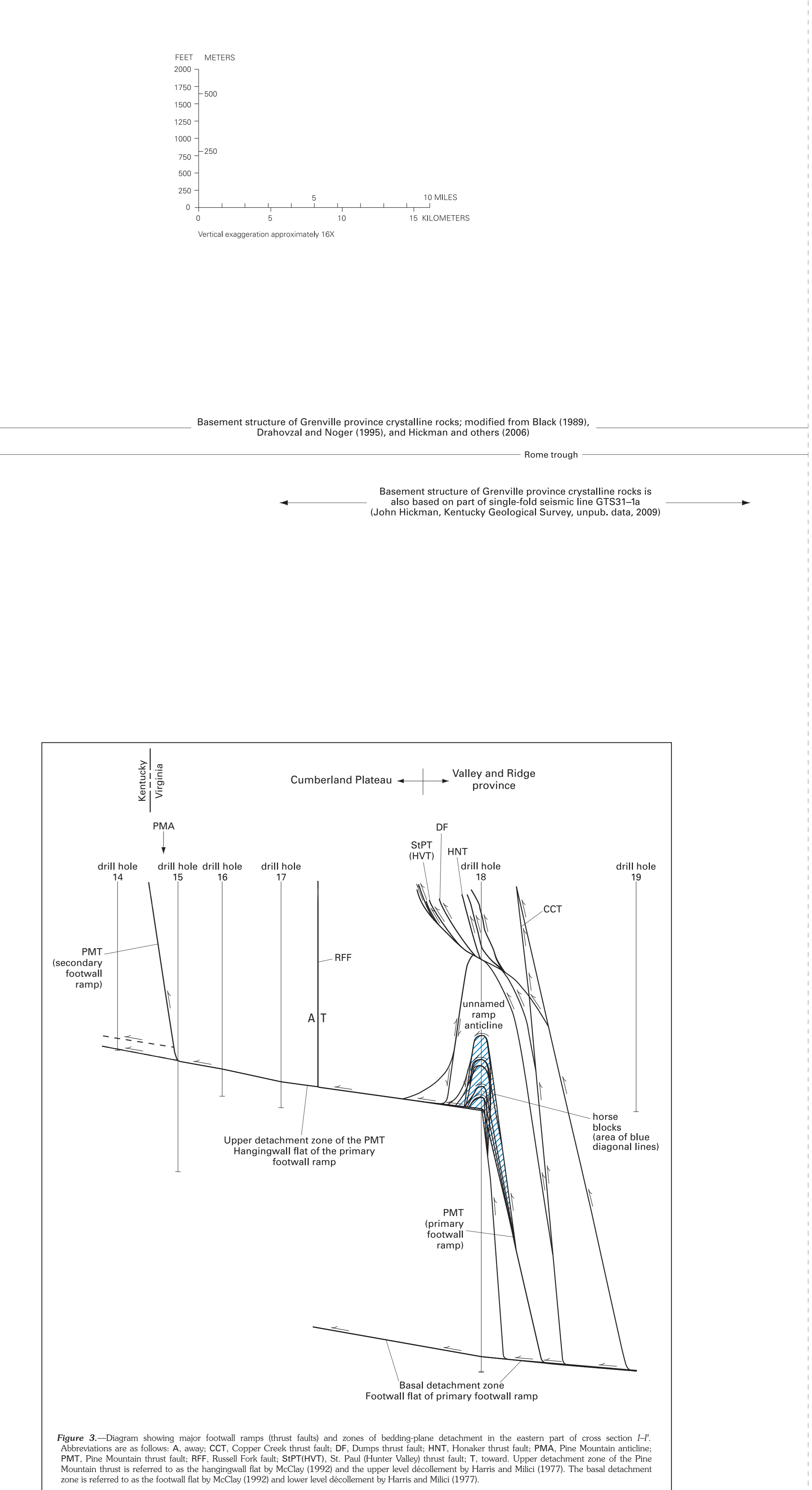


Figure 3—Diagram showing major fault zones and zones of bedding-plane detachment in the eastern part of cross section I-I'. Abbreviations are as follows: A, easy; CCT, Copper Creek thrust fault; DPT, Dorcas thrust fault; HNT, Housler thrust fault; PMA, Pine Mountain anticline; PMT, Pine Mountain thrust fault; RFF, Royal Fork fault; SPT/HVT, St. Paul (Harris) Valley thrust fault; T, tunnel; UZ, upper detachment zone of the Pine Mountain thrust; VZ, lower detachment zone of the Pine Mountain thrust; WZ, lower level detachment by Harris and Miller (1977). The basal detachment zone is referred to as the footwall flat by McCay (1992) and lower level detachment by Harris and Miller (1977).

GEOLOGIC CROSS SECTION I-I' THROUGH THE APPALACHIAN BASIN FROM THE EASTERN MARGIN OF THE ILLINOIS BASIN, JEFFERSON COUNTY, KENTUCKY, TO THE VALLEY AND RIDGE PROVINCE, SCOTT COUNTY, VIRGINIA

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