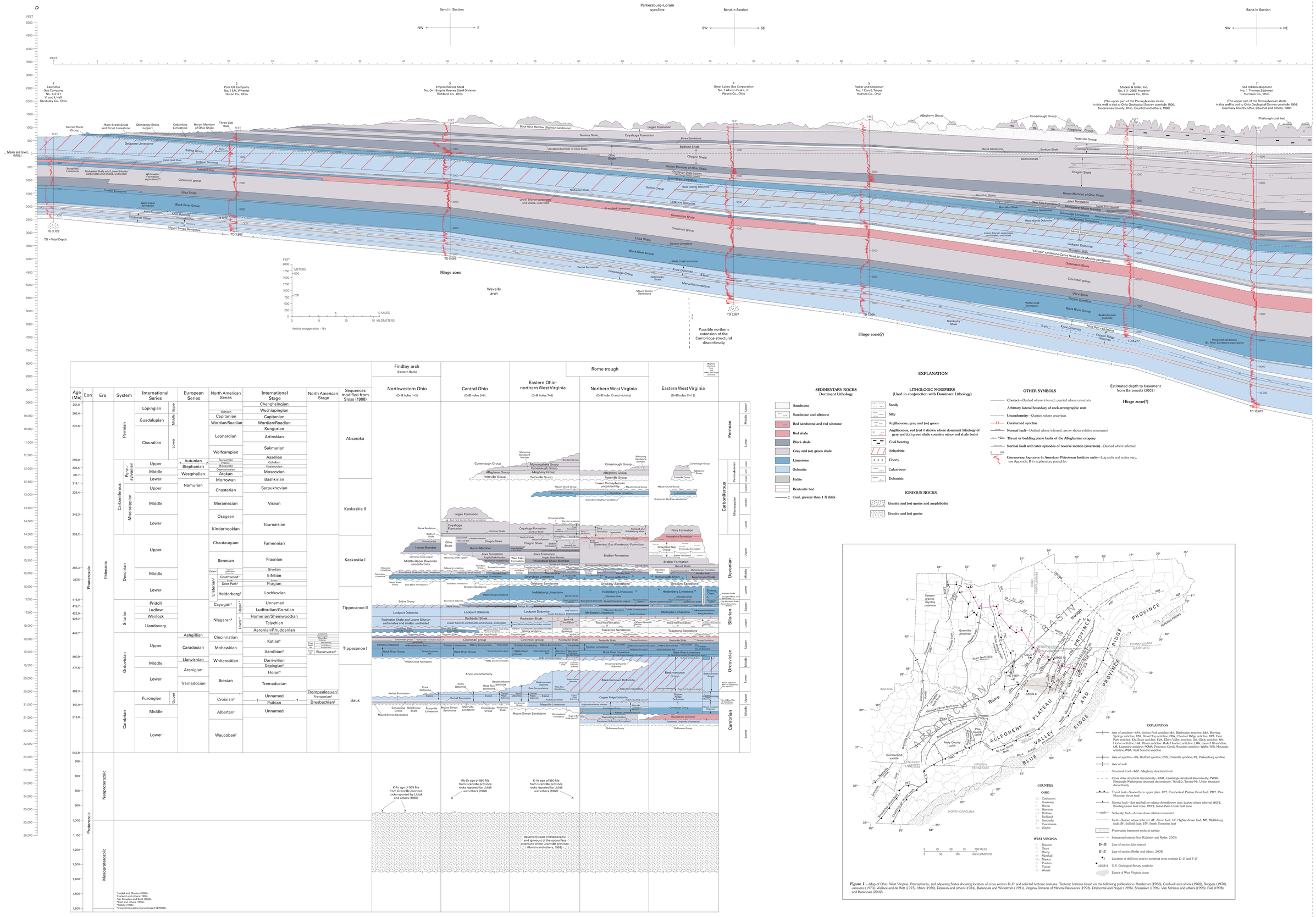

Figure 2.—Correlation of Paleozoic rocks along cross section *D–D′* in Ohio and West Virginia. Geologic time scale from Gradstein and others (2004). Abbreviations used: equiv., equivalent; Fm., Formation; Ls., Limestone; Mbr., Member.

EXPLANATION

SEDIMENTARY ROCKS
Dominant Lithology

- Sandstone
- Sandstone and siltstone
- Red sandstone and red siltstone
- Red shale
- Black shale
- Gray and (or) green shale
- Limestone
- Dolomite
- Halite
- Bentonite bed
- *C* Coal, greater than 1 ft thick

LITHOLOGIC MODIFIERS
(Used in conjunction with Dominant Lithology)

- Sandy
- Silty
- Argillaceous, gray and (or) green
- Argillaceous, red (red if shown where dominant lithology of gray and (or) green shale contains minor red shale beds)
- Coal bearing
- Anhydritic
- Cherty
- Calcareous
- Dolomitic

IGNEOUS ROCKS

- Granite and (or) gneiss and amphibolite
- Granite and (or) gneiss

OTHER SYMBOLS

- **Contact**—Dashed where inferred; queried where uncertain
- **Arbitrary lateral boundary of rock-stratigraphic unit**
- **Unconformity**—Queried where uncertain
- **Overturned syncline**
- **Normal fault**—Dashed where inferred; arrow shows relative movement
- **Thrust or bedding plane faults of the Alleghanian orogeny**
- **Normal fault with later episodes of reverse motion (inversion)**—Dashed where inferred
- 5 20 **Gamma-ray log curve in American Petroleum Institute units**—Log units and scales vary, see Appendix B in explanatory pamphlet

APPALACHIAN BASIN
ALLEGHENY PLATEAU
VALLEY AND RIDGE PROVINCE
BLUE RIDGE
PENNSYLVANIA
MARYLAND
VIRGINIA
TENNESSEE
KENTUCKY
NORTH CAROLINA
INDIANA
Rome trough
Eastern granite-rhyolite province
Grenville province
Rome
Perry County saddle
Pike County saddle
Cumberland saddle
Pittsburgh
Washington
Charleston
Huntington
Bluefield
Lexington
Knoxville
Asheville
Roanoke
Blacksburg
Kentucky River fault zone
Rome trough
Grenville front
Rocky Mountain front
Pittsburgh-Washington structural discontinuity
Cambridge structural discontinuity
Tyrone-Mt. Union structural discontinuity
Rome Formation
Waynesboro Formation
Tomstown Dolomite
Chilhowee Group
Mt. Simon Sandstone
Eau Claire Formation
Unnamed sandstone (dk. Peter Sandstone equivalent)
Pittsburgh coal bed
Greenbrier Limestone
Greenbrier Big Injun sandstone
Mauch Chunk Group
Pottsville Group
Conemaugh Group
Allegheny Group
Mahoning Sandstone Member
Brallier Formation
Greenland Gap (Foreknobs) Formation
Price Formation
Hampshire Formation
Hardy Sandstone
Oriskany Sandstone
Helderberg Limestone
Manlius Shale
Shriver Chert
Needmore Shale
Huntersville Chert
Tuscarora Sandstone
Clinton/Medina sandstone
Queenston Shale
Beekmantown Group
Rose Run Sandstone
Copper Ridge Dolomite
Knox Supergroup
Rome Formation
Waynesboro Formation
Tomstown Dolomite (Formation)