

STRATIGRAPHIC CROSS SECTION M-M' SHOWING THE RELATIONSHIP OF THE DEVONIAN BLACK SHALES AND RELATED ROCKS BETWEEN THE SOUTHERN APPALACHIAN AND SOUTHEASTERN ILLINOIS BASINS

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey information standards and stratigraphic nomenclature.

EXPLANATION

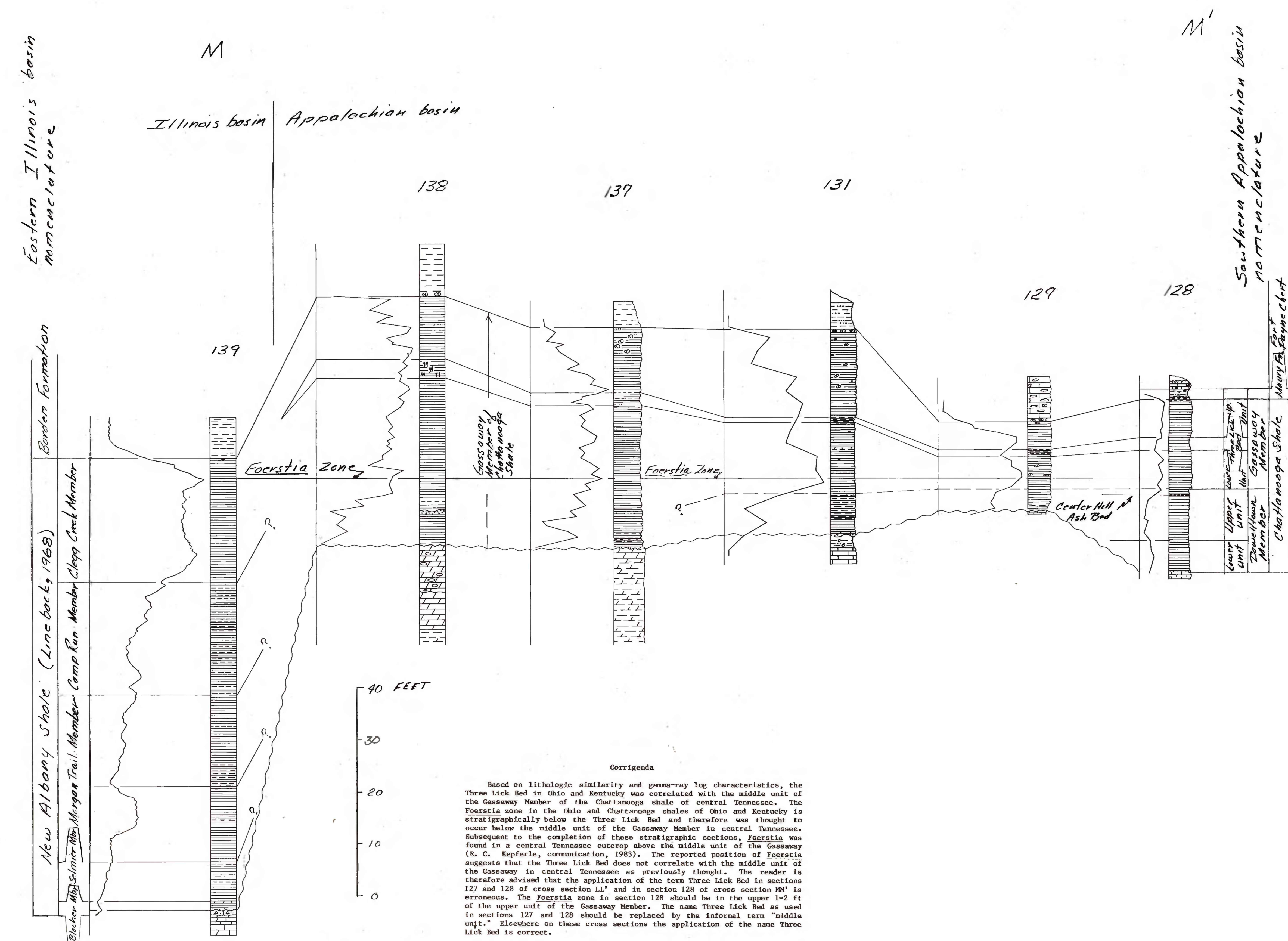
- Black shale
- Calcareous black shale
- Dolomitic black shale
- Gray to greenish-gray mudstone and claystone
- Calcareous greenish-gray mudstone and claystone
- Dolomitic greenish-gray mudstone and claystone
- Silty greenish-gray mudstone and claystone
- Siltstone
- Sandstone
- Limestone
- Cherty limestone
- Silty limestone
- Dolomite
- Cherty dolomite
- Argillaceous dolomite
- Silty dolomite
- Ash bed
- Chert nodules
- Phosphate nodules
- Carbonaceous concretions
- Pelite
- Trercia
- Covered

102
Number refers to core hole or surface section location on index map

Formation or member boundary, zone, or bed, quartzite uncertain

Unconformity

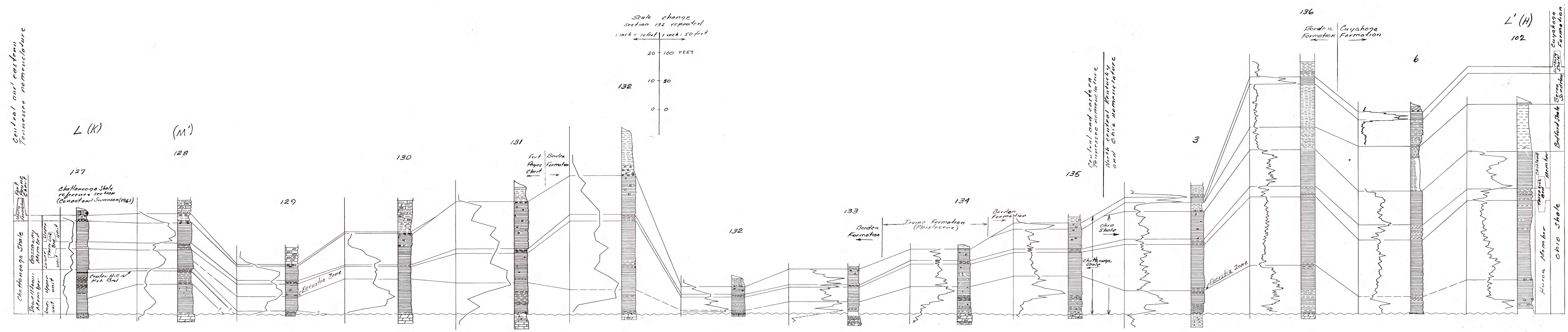
DATA SOURCES:
Gamma-ray logs, well-log profiles, and core and outcrop descriptions



Corrigenda

Based on lithologic similarity and gamma-ray log characteristics, the Three Lick bed in Ohio and Kentucky was correlated with the middle unit of the Gasaway Member of the Chattanooga Shale of central Tennessee. The Forcettia zone in the Ohio and Chattanooga shales of Ohio and Kentucky is stratigraphically below the Three Lick bed and therefore was thought to occur below the middle unit of the Gasaway Member in central Tennessee. Subsequent to the completion of these stratigraphic sections, Forcettia was found in a central Tennessee outcrop above the middle unit of the Gasaway (i.e. C. Kuperle, communication, 1985). The reported position of Forcettia suggests that the Three Lick bed does not correlate with the middle unit of the Gasaway in central Tennessee as previously thought. The reader is therefore advised that the application of the term Three Lick bed in sections 127 and 128 of cross section M-M' and in section 128 of cross section M-M' is erroneous. The Forcettia zone in section 128 should be in the upper 1-1/2 ft of the upper unit of the Gasaway Member. The name Three Lick bed as used in sections 127 and 128 should be replaced by the informal term "middle unit." Elsewhere on these cross sections the application of the name Three Lick bed is correct.

STRATIGRAPHIC CROSS SECTION L-L' SHOWING THE DEVONIAN BLACK SHALES AND RELATED ROCKS IN THE SOUTHERN PART OF THE APPALACHIAN BASIN



Northwestern Kentucky and Ohio nomenclature

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