Subsurface Geophysical Transect of Pennsylvanian-Aged Strata (Upper Cherokee Through Basal Shawnee Groups) in Eastern Kansas Extending from Northcentral Osage County, Kansas, to Southcentral Bates County, Missouri

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Datum = top of Hushpuckney Shale Member

Note: See text for further discussion of group boundaries.

Northwest **B** — **B′** Southeast

Nomenclature (Hedke, 2020)

Shawnee Group; Douglas Group; Lansing Group; Kansas City Group (Bronson Subgroup, Lane Subgroup); Pleasanton Group; Marmaton Group; Cherokee Group

Osage County: 15-139-00009 (Dillon's Log Notes in Red), 15-139-00010, 15-139-20057, 15-139-20082, 15-139-20083

Franklin County: Transect G-G′ Intersect 15-059-22495

Anderson County: 15-003-24236 (Dillon's Log Notes in Red); Transect H-H′ Intersect 15-003-25835 (Dillon's Log Notes in Red); 15-003-24689 (Dillon's Log Notes in Red); 15-003-25051; 15-003-25315 (Dillon's Log Notes in Red); 15-003-24385 (Dillon's Log Notes in Red)

Linn County: 15-107-23788; 15-107-22573 (Dillon's Log Notes in Red); 15-107-23790; Transect I-I′ Intersect 15-107-23220; 15-107-24140 (Dillon's Log Notes in Red); 15-107-20957

LiDAR map of T. 22 S., R. 24 E. Linn County, Kansas

Barnes #1 NW-NE-SE-NW sec. 8 T.22 S., R. 24 E.

Sias Mason #4 2295 W., 2431'S of c. E. line sec. 19 T.22 S., R. 24 E. Dillon's log used by Pashgian (1967, pp. 73)

Ray Patton #1 SE-NE-NE-SE sec. 24 T.22 S., R. 24 E.

Bates County, MO: MO-013-20374; MO-013-20025; MO-013-20023; MO-013-20375; MO-013-00008; MO-013-00070

Abbreviations:

Fm.	Formation
L.	Lower
Ls.	Limestone
Lm.	Limestone
Sh.	Shale
Ss.	Sandstone
Cr.	Creek
Cr. Ls.	Creek Limestone
Cr. Sh.	Creek Shale
Ls.	Stones Limestone
Sh.	Stones Shale
G. Sh.	Gunsight Mountain Shale Member
Cabin. Sh.	Cabinburg Shale
Ch. Sh.	Chelsea Shale Member
Hickory	Hickory Creek Shale Member
Hush.	Hushpuckney Shale Member
Ft.	Fontana Shale Member
Cherok.	Cherokee Shale Member
L. Bonn.	Liberty Memorial Shale
Mo. Sh.	Mound City Shale Member
Mo. L.	Mound City Shale Member
Pl. Ls.	Plattsburg Limestone
Plattsb.	Plattsburg Limestone
Vera.	Veracruz Limestone Member
Verdigris	Verdigris Limestone
Wy.	Wyandotte Limestone

TRANSECT LEGEND

- Predominantly carbonate interval. Some intervals may include black fissile shales (i.e., highstand shale).
- Intervals in which accommodation is predominantly filled by argillaceous and/or arenaceous shale lithologies. These intervals may include carbonate lenses (e.g., Cherryvale and Chanute Shale formations).
- Coal
- Indicates an intersect with another transect.
- Group and/or subgroup boundary
- Argillaceous Shale
- Black Fissile Shale
- Arenaceous Shale
- Carbonate
- Sandstone