

Northwest

A

Subsurface Geophysical Cross Section of Pennsylvanian-Aged Strata (Upper Cherokee Through Basal Lansing Groups) in Eastern Kansas Extending from West-Central Douglas County, Kansas, to Northwestern Bates County, Missouri

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Datum = top of Hushpuckney Shale Member

Southeast

A'

Nomenclature
(revised herein)

Douglas Group
Lansing Group
Kansas City Group
Zarah Subgroup
Linn Sgs.
Bronson Sgs.
Pleasanton Group
Miamiton Group
Cherokee Group

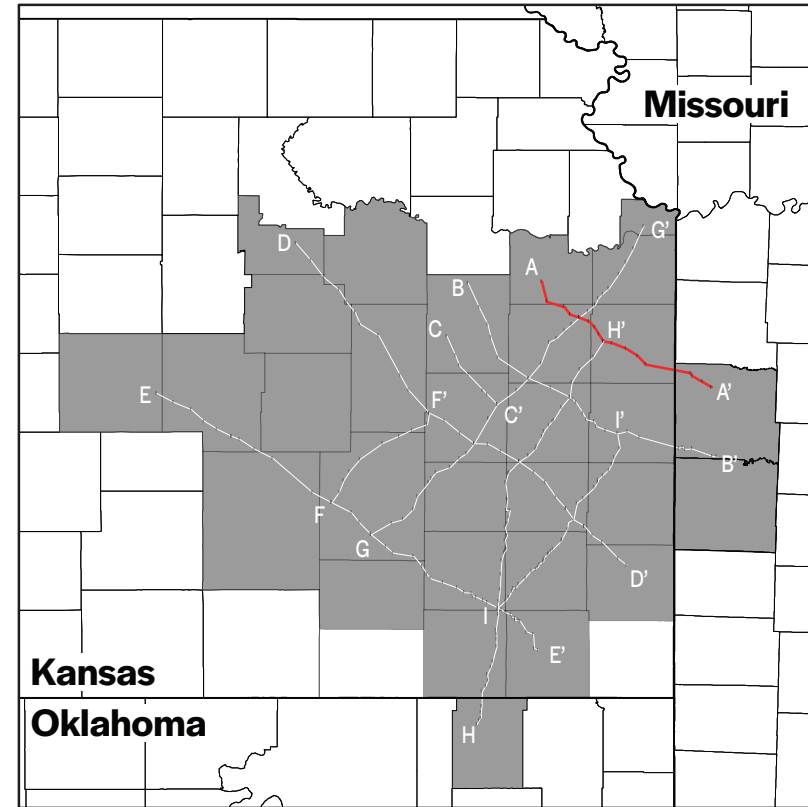
Douglas County

Franklin County

Franklin County

Miami County

Bates County, Missouri



Abbreviations:	
Fm.	Formation
Ls.	Limestone
Mbr.	Member
Sh.	Shale
Sgn.	Subgroup
Cement Crk. sh.	Cement City Limestone Member
Ck.	Creek
D.	Dewey Limestone
Elm Br.	Elm Branch Shale
Gal.	Galena Shale
Her.	Hertha Limestone
Hush.	Hushpuckney Shale Member
I.	Iola Limestone
Isl.	Island Creek Shale Member
Lib.	Liberty Memorial Shale
M. Crk.	Middle Creek Limestone Member
Md. City.	Mound City Shale Member
Mun.	Muncie Creek Shale Member
Quin.	Quinn Shale Member
Ran.	Randown Limestone Member
Stan.	Stanton Limestone
Wy.	Wyandotte Limestone

CROSS SECTION 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 cross section.
- Group and/or subgroup boundary

- Argillaceous Shale
- Arenaceous Shale
- Sandstone
- Black Fissile Shale
- Carbonate

Note: See text for further discussion of the group boundaries.

Miami County, Kansas

15-121-26620
Driller's log notes in red are from an adjacent well located in the same section (log 15-121-26509).
(no scale on GR or Neutron log)

MO-013-20369
(scale is on log @ 100' depth)
(best scan available)

MO-013-20056
(no scale on GR or Neutron log)

MO-013-20381

MO-013-20041
(no scale on GR or Neutron log)

Modified for publication. Petrophysical cross section originally released in non-peer reviewed open-file report:
Oborny, S. C., and Hasiuk, F., 2022, Lithostratigraphic correlations of the upper Desmoinesian and Missourian stages (Pennsylvanian) in eastern Kansas:
Kansas Geological Survey, Open-File Report 2022-2, 9 p., 10 plates.