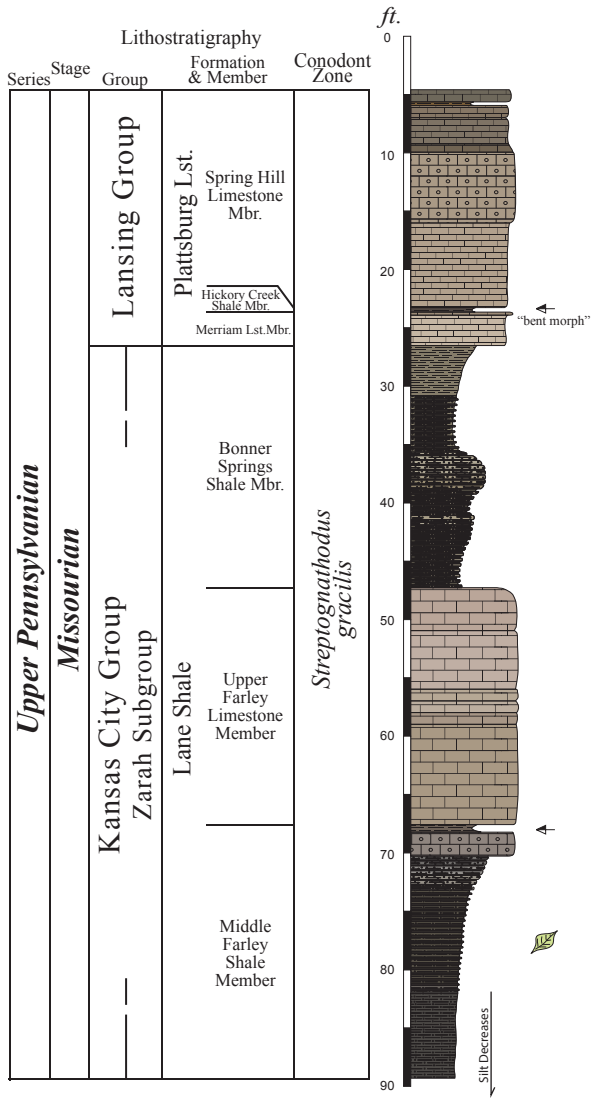
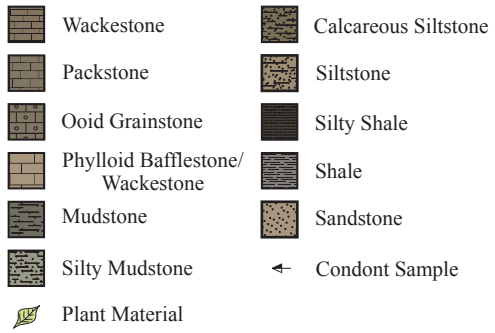
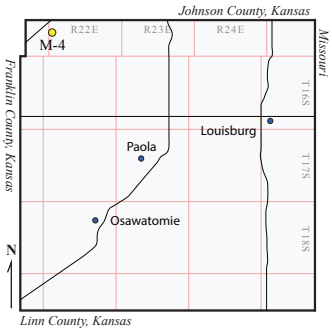
KDOT: M-4 Core, Miami County, NE Kansas





Core Logged and Illustrated by: Stephan C. Oborny, University of Iowa

KID: 1035179794
Location: T15S R22E, Sec. 30 SW NW NW
Longitude: -95.0180208°
Latitude: 38.7211794°
Elevation: 1015 GL
Total Depth: 91 feet
Note: E. side of Edgerton Rd., 0.4 miles N of 231st Rd.



Plattsburg Limestone: (Total Thickness: 21.92 ft.)
- *Spring Hill Limestone Mbr.*: (4.58-23.42 ft.)
  - Packstone (4.58-5.62 ft.); *Osagia* coated grains
  - Shale (5.62-5.94 ft.)
  - Wackestone (5.94-9.42 ft.); oolitic
  - Packstone (9.42-9.94 ft.)
  - Ooid Grainstone (9.94-16.08 ft.)
  - Wackestone (16.08-23.42 ft.)
- *Hickory Creek Shale Mbr.*: (23.42-23.58 ft.)
  - Shale; black
- *Merriam Limestone Mbr.*: (23.58-26.5 ft.)
  - Packstone (23.58-23.83 ft.)
  - Wackestone (23.83-25.67 ft.); bedding plane at 25 ft. could be shale...may correlate to M-38.
  - Packstone (25.67-26.5 ft.)

Lane Shale (Total Thickness: 63.25 ft.)
- *Bonner Springs Shale Mbr.*: (26.5 –47.37 ft.)
  - Shale (26.5-30.75 ft.); nodules 26.5-27.5 ft., slight maroon coloration
  - Interbedded Silt/Shale (30.75-35.67 ft.)
  - Siltstone (35.67-38.83 ft.)
  - Interbedded Silt/Shale (38.83-41.25 ft.)
  - Siltstone (41.25-41.42 ft.)
  - Interbedded Silt/Shale (41.42-47.37 ft.)
- *Upper Farley Limestone Mbr.*: (47.37-89.75 ft.)
  - Phylloid Bafflestone/Wackestone (47.37-67.75 ft.)
- *Middle Farley Shale Mbr.*: (67.75-89.75 ft.)
  - Fossiliferous Shale (67.75-68.29 ft.)
  - Ooid Grainstone (68.29-70.29 ft.)
  - Interbedded Silt/Shale (70.29-89.75 ft.); plant debris (@ 77.42 ft.), fine plant debris throughout; silt decreases with depth