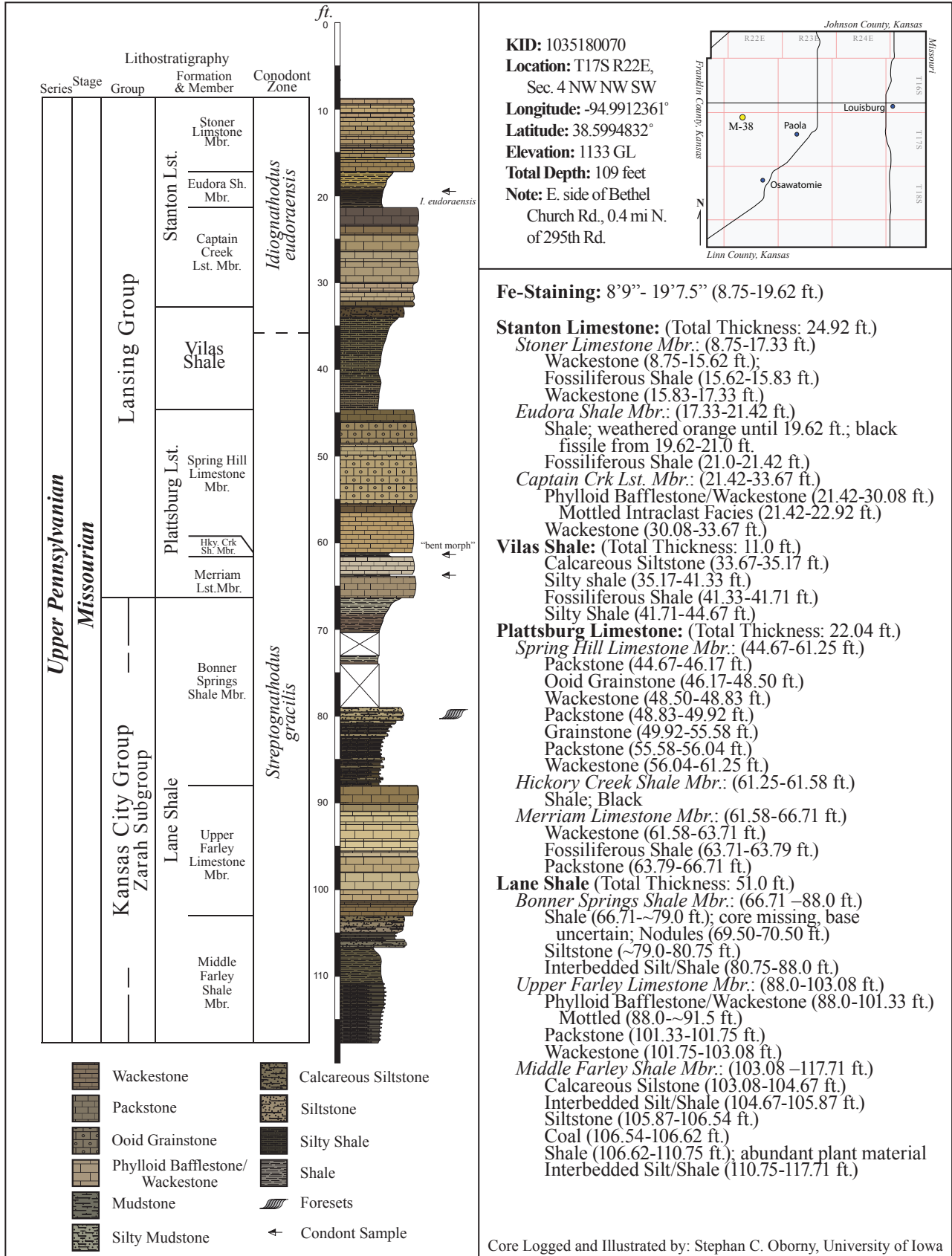
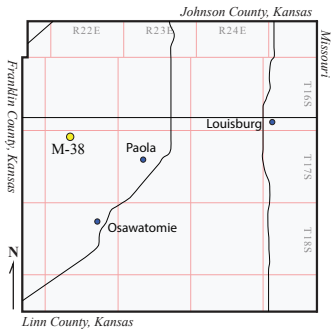


KDOT: M-38 Core, Miami County, NE Kansas



KID: 1035180070
Location: T17S R22E, Sec. 4 NW NW SW
Longitude: -94.9912361°
Latitude: 38.5994832°
Elevation: 1133 GL
Total Depth: 109 feet
Note: E. side of Bethel Church Rd., 0.4 mi N. of 295th Rd.



Fe-Staining: 8'9" - 19'7.5" (8.75-19.62 ft.)

Stanton Limestone: (Total Thickness: 24.92 ft.)
Stoner Limestone Mbr.: (8.75-17.33 ft.)
 Wackestone (8.75-15.62 ft.); Fossiliferous Shale (15.62-15.83 ft.)
 Wackestone (15.83-17.33 ft.)
Eudora Shale Mbr.: (17.33-21.42 ft.)
 Shale; weathered orange until 19.62 ft.; black fissile from 19.62-21.0 ft.
 Fossiliferous Shale (21.0-21.42 ft.)
Captain Crk Lst. Mbr.: (21.42-33.67 ft.)
 Phylloid Bafflestone/Wackestone (21.42-30.08 ft.)
 Mottled Intraclast Facies (21.42-22.92 ft.)
 Wackestone (30.08-33.67 ft.)

Vilas Shale: (Total Thickness: 11.0 ft.)
 Calcareous Siltstone (33.67-35.17 ft.)
 Silty shale (35.17-41.33 ft.)
 Fossiliferous Shale (41.33-41.71 ft.)
 Silty Shale (41.71-44.67 ft.)

Plattsburg Limestone: (Total Thickness: 22.04 ft.)
Spring Hill Limestone Mbr.: (44.67-61.25 ft.)
 Packstone (44.67-46.17 ft.)
 Ooid Grainstone (46.17-48.50 ft.)
 Wackestone (48.50-48.83 ft.)
 Packstone (48.83-49.92 ft.)
 Grainstone (49.92-55.58 ft.)
 Packstone (55.58-56.04 ft.)
 Wackestone (56.04-61.25 ft.)
Hickory Creek Shale Mbr.: (61.25-61.58 ft.)
 Shale; Black
Merriam Limestone Mbr.: (61.58-66.71 ft.)
 Wackestone (61.58-63.71 ft.)
 Fossiliferous Shale (63.71-63.79 ft.)
 Packstone (63.79-66.71 ft.)

Lane Shale: (Total Thickness: 51.0 ft.)
Bonner Springs Shale Mbr.: (66.71 -88.0 ft.)
 Shale (66.71-79.0 ft.); core missing, base uncertain; Nodules (69.50-70.50 ft.)
 Siltstone (~79.0-80.75 ft.)
 Interbedded Silt/Shale (80.75-88.0 ft.)
Upper Farley Limestone Mbr.: (88.0-103.08 ft.)
 Phylloid Bafflestone/Wackestone (88.0-101.33 ft.)
 Mottled (88.0-91.5 ft.)
 Packstone (101.33-101.75 ft.)
 Wackestone (101.75-103.08 ft.)
Middle Farley Shale Mbr.: (103.08 -117.71 ft.)
 Calcareous Siltstone (103.08-104.67 ft.)
 Interbedded Silt/Shale (104.67-105.87 ft.)
 Siltstone (105.87-106.54 ft.)
 Coal (106.54-106.62 ft.)
 Shale (106.62-110.75 ft.); abundant plant material
 Interbedded Silt/Shale (110.75-117.71 ft.)

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