

Description of Map Units

- QUATERNARY SYSTEM**
  - HOLOCENE**
    - Ha** **Holocene undifferentiated alluvium**—Undifferentiated deposits of small upland streams; alluvial deposits of minor streams and creeks of varying textures, filling valleys incised into older deposits.
- PLEISTOCENE**
  - PRAIRIE ALLOGROUP**
    - Ppl** **Upper Prairie Allogroup**—Late Pleistocene alluvial deposits of the younger of the Prairie Allogroup temporal phases of the Red River valley. Where observed in the area northwest of Shreveport, the unit consists of grayish clayey very fine sand, with red mottles in places, weathering yellowish to yellowish brown.
- TERTIARY SYSTEM**
  - EOCENE**
    - Ewc** **Clairborne Group**
      - Carizzo Formation**—Well rounded, very fine to medium, glauconitic quartzose sand, commonly cross bedded, in places feldspathic and/or containing petrified wood (Andersen 1993, p73; Andersen 1960, p 84). Where exposed in the area northwest of Shreveport, it contains abundant quartz granules and consists of sandy granule conglomerate in places. Ranges from reddish orange to, in more weathered outcrops, a deep maroon limonitic sand containing abundant ironstone.
  - PALEOCENE-EOCENE**
    - PEw** **Wilcox Group, undifferentiated**—Grayish very fine to fine sand, typically clayey, rarely with sparse granules. In places with silty or silty clay interlamination and/or channel cutouts. Typically of gray or light gray coloration with yellow-brown to red mottles in places, ranging to very pale brown with dark yellowish brown mottles; includes gray weathering to strong brown, pale yellow weathering to olive yellow, and pale brown weathering to dark yellowish brown hues. In places contains carbonaceous beds, petrified wood, and ironstone, with ironstone concretions up to 25 cm in diameter. A reddish or grayish to brownish weathering mantle up to 2 m thick is developed locally.

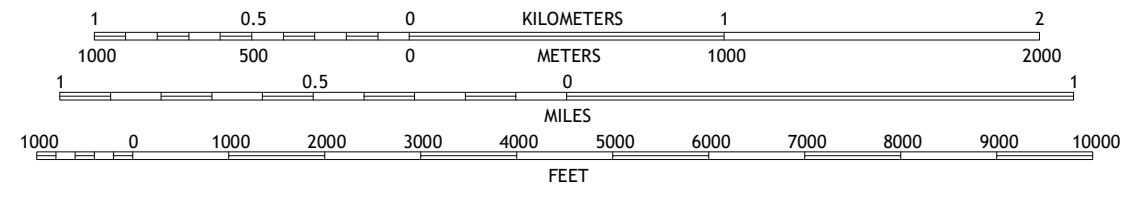
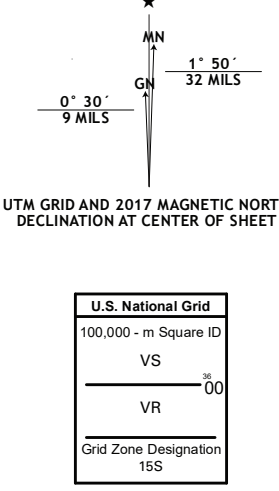
- Open Water, Inundated Area, Swamp**
- Fault, Inferred**—Identity and existence inferred, location accurate. Ball and bar on downthrown block. Faults in Caddo Parish mapped by Smith (1970) are shown dashed in this compilation because those in two 7.5-minute quadrangles in the southwestern portion of the map area could not be corroborated with specific indications of faulting in the accompanying investigation of surface geology at 1:24,000 scale (McCulloh and Heinrich, 2006a and 2006b).
- Fault, Inferred, Concealed**—Identity and existence certain, location concealed. Ball and bar on downthrown block.
- Contact**—includes inferred contacts.
- Streams**
- Topographic Contours**

**Sources:**  
 Durham, C. O., Jr., and C. R. Smith, 1958, Louisiana Midway-Wilcox correlation problems: Louisiana Department of Conservation, Louisiana Geological Survey, Geological Pamphlet no. 5, 17 p.  
 Albertson, P. E., and J. B. Dunbar, 1993, Geomorphic Investigation of Shreveport to Dandierfield Navigation Project: U.S. Army Corps of Engineers Waterway Experiment Station, Vicksburg, Mississippi, Technical Report no. GL-93-31, 148p.  
 Smith, C. R. (1970), (Geologic Map of Caddo Parish, Louisiana: Unpublished map, Louisiana Geological Survey, Baton Rouge, Louisiana, scale 1:62,500.

**References:**  
 Andersen, H. V., 1993, Geology of Natchitoches Parish: Louisiana Geological Survey, Geological bulletin no. 44, 227 p., plus plates (includes one 1:62,500-scale geologic map).  
 Andersen, H. V., 1960, Geology of Sabine Parish: Louisiana Department of Conservation, Louisiana Geological Survey, Geological bulletin no. 34, 164 p., plus plates (includes one 1:62,500-scale geologic map).

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SCALE 1:24,000

Base map from U.S. Geological Survey 1:24,000 GeoPDF  
 Universal Transverse Mercator Projection, Zone 15  
 North American Datum 1983 (NAD 83)  
 Contour Interval 10 feet  
 National Geodetic Vertical Datum 1988

1	2	3
4	5	6
7	8	

ADJOINING QUADRANGLES



ROAD CLASSIFICATION	
Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	Railroad
Interstate Route	US Route
	State Route

Base Map.....United States Geological Survey, 2020  
 Boundaries.....LabDOT, 2007  
 Contours.....National Elevation Dataset, 2008 - 2011  
 Hydrography.....National Hydrography Dataset, 2002 - 2017  
 Names.....GNIS, 1980 - 2017  
 Roads.....U.S. Census Bureau, 2017  
 Wetlands.....FWS National Wetlands Inventory 2021

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This map has been carefully prepared from the best existing sources available at the time of preparation. However, the Louisiana Geological Survey and Louisiana State University do not assume responsibility or liability for any reliance thereon. This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such data are the sole responsibility of the user. These geologic quadrangles are intended for use at the scale of 1:24,000. A detailed on-the-ground survey and analysis of a specific site may differ from these maps.

Geologic Map of the Blanchard 7.5 Minute Quadrangle  
 Caddo Parish, Louisiana