



LUNA QUADRANGLE LOUISIANA 7.5-MINUTE SERIES



hues. Ranges from sandy clay to medium sand, in places containing grayish clayey laminae that may become broken into rip-up clasts. Ironstone beds and nodules are common. Weathers locally to produce a thick (1 to 2.5 m) loamy sand surface mantle. Above its basal sand unit the Cockfield comprises "interbedded clays, silts, and muds" (Andersen 1960, p. 92) and is "predominantly composed of very fine sand and silt" (Andersen 1993, p. 87), with scattered occurrences of petrified wood, leaf fossils, lignite, and glauconite (Andersen 1960). These characteristics are suggestive of deltaic deposition on a shallow shelf.

- **Open Water, Inundated Area, Wetland**
- **Contact**—includes inferred contacts.

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

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).

Produced and published by the Louisiana Geological Survey 3079 Energy, Coast & Environment Building, Louisiana State University Baton Rouge, LA 70803 • 225/578-5320 • www.lsu.edu/lgs/

Production of this map was supported by the U.S. Geological Survey, Department of the Interior, under Assistance Award No. 04HQAG0073.

Copyright ©2006, 2021 by the Louisiana Geological Survey

Geology: Richard P. McCulloh and Paul Heinrich

GIS compilation: R. Hampton Peele, Jayanth Ramachandran, Jomish George Revision GIS/Cartography: Robert L. Paulsell



## SCALE 1:24,000

0°25' 7 MILS

0°26' 8 MILS

UTM GRID AND 2017 MAGNETIC NORT DECLINATION AT CENTER OF SHEET

U.S. National Grid 100,000 - m Square ID

WR

Zone Designa 15S

Base map from U.S. Geological Survey 1:24,000 GeoPDF National Geospatial Program US Topo Product Standard, 2011. Universal Transverse Mercator Projection, Zone 15 North American Datum 1983 (NAD 83) Contour Interval 10 Feet North American Vertical Datum 1988

**Geologic Map of the Luna 7.5 minute quadrangle** Caldwell and Ouachita Parishes, Louisiana



1 Cadeville 2 West Monroe South 3 Monroe South 4 Chatham SE 5 Bosco 6 Vixen 7 Blankston 8 Riverton ADJOINING QUADRANGLES

OUISIANA

	United States Geological Survey, 2020
Boundaries	LaDOTD, 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

This research is supported by the U. S. Geological Survey, National Cooperative Geologic Mapping Program. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U. S. Government or the state of Louisiana. This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.

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.