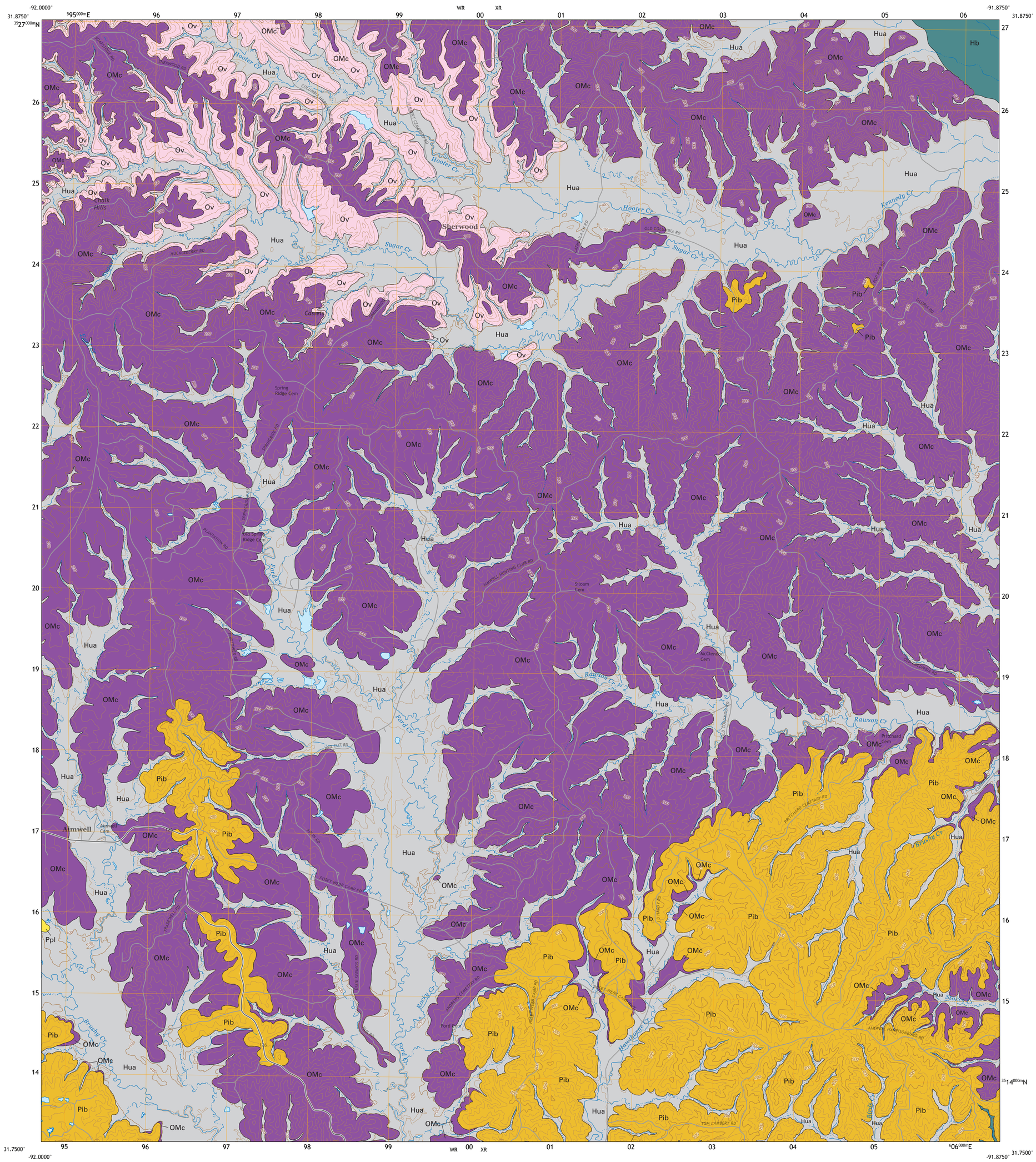
USGS science for a changing world

LSU Louisiana Geological Survey

The National Map US Topo

AIMWELL QUADRANGLE
LOUISIANA - CATAHOULA PARISH
7.5-MINUTE SERIES



Description of Map Units

QUATERNARY SYSTEM

HOLOCENE

Hua — **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.

Hb — **Backswamp deposits**—fine-grained Holocene deposits of rivers, underlying the flood basins between meander belts.

PLEISTOCENE

PRAIRIE ALLOGROUP

Ppl — **Upper Prairie Allogroup**—Younger and topographically lower of Prairie Allogroup temporal phases, consisting of alluvial deposits of ancestral late Pleistocene streams. The deposits geomorphically form a very flat and poorly drained alluvial terrace. Grayish-white to reddish-white and light red very fine to medium sand to silt, with clay, to sandy mud, in places including beds of gravelly sand and sandy gravel of chert and vein quartz. Weathers to yellow, orange, and/or brownish-tan hues..

INTERMEDIATE ALLOGROUP

Pib — **Bentley alloformation**—dissected alluvial deposits of early Pleistocene streams of primarily the Red River in central Louisiana. The unit is blanketed by yellow loam and incises Tertiary formations; it is incised by younger subunits of the Intermediate allogroup, and by the Prairie Allogroup and younger strata. Equivalent to the Natchez Formation of Mississippi.

TERTIARY SYSTEM

OLIGOCENE

OMc — **Catahoula Formation**—texturally heterogeneous suite of generally poorly sorted sediments comprising primarily silt/siltstone to very fine quartzose sand/sandstone, with and without admixtures of clay. Overall or predominant grain size of sand/sandstone tends to average very fine to fine sand. Coarser grains may comprise quartz, chert, and/or mud clasts. Contains petrified wood and tuffaceous sandstone locally. Weathers locally to produce a thick (up to 2 meters) gray/tan loamy surface unit. Characteristics of the surface Catahoula accord generally with continental, fluvial-dominated deposition (Fisk, 1940; Hinds, 1999), with the large proportion of silt observed in places suggestive of the onset of transition to deltaic facies (McCulloh and Heinrich, 2002). Recent work indicates a palynological age of early late Miocene for the Catahoula in its type area in eastern north Louisiana (Wrenn et al., 2003), in contrast to the Oligocene age suggested by subsurface-to-surface correlation in the Texas Gulf Coast (Galloway, 1977, Galloway et al., 1982).

VICKSBURG GROUP

Ov — **Vicksburg Group, undifferentiated**—grayish, clayey very fine sand to fine sandy clay, with red mottles in places. Muddier sediment is typically a dark gray to dark reddish brown to chocolate brown, thinly laminated silty clay. Petrified wood occurs locally. Divisible into two members of formation rank in Sabine Parish—the Sandel and Nash Creek formations—plus a third in Natchitoches Parish, the overlying Rosefield Formation (Andersen, 1960, 1993). The lowermost formation, the Sandel, comprises sand with interbedded conglomerate containing cobbles and slabs of carbonaceous bentonitic clay like that of the overlying Nash Creek. Based on the investigation of Rukas and Gooch (1939), Andersen (1993) portrayed the Rosefield as comprising lentils of marly clay that form a marine tongue extending into Natchitoches Parish from the east and pinching out westward.

Open Water, Inundated Area, Wetland

Contact—includes inferred contacts.

Streams

Topographic Contours

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3079 Energy, Coast & Environment Building, Louisiana State University
Baton Rouge, LA 70803 • 225/578-5320 • www.lsu.edu/lgs/

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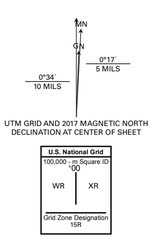
Geology: Paul Heinrich and Richard P. McCulloh

GIS compilation: R. Hampton Peele and Anuradha Eragani

Revision GIS: Robert L. Paulsell

Cartography: Robert L. Paulsell



SCALE 1:24 000

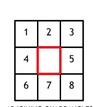
1 0,5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0,5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the
National Geospatial Program US Topo Product Standard, 2011.

Aimwell Surface Geology
Revised 2021

QUADRANGLE LOCATION



1 Holum
2 Enterprise
3 Extension
4 Nickel
5 Harrisonburg
6 Jena East
7 Manifest
8 Jonesville North

ADJOINING QUADRANGLES

ROAD CLASSIFICATION

Expressway — Local Connector
Secondary Hwy — Local Road
Ramp — 4WD

(10) Interstate Route (165) US Route (448) State Route

AIMWELL, LA
2018