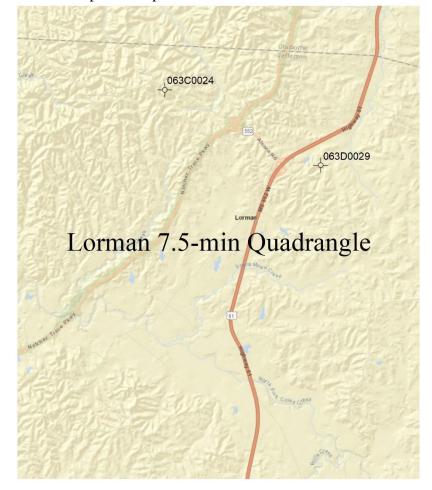
ACCOMPANYING TEST HOLE RECORDS FOR THE GEOLOGIC MAP OF THE LORMAN 7.5 MINUTE QUADRANGLE IN JEFFERSON AND CLAIBORNE COUNTIES, MISSISSIPPI



The following are descriptions of samples taken from cuttings, a 5-inch scale geophysical well log, and a lithostratigraphic log from test holes drilled with 10-foot stems during the geologic and stratigraphic study of the Lorman 7.5 minute quadrangle. The prefix 063 precedes these test holes as a numeric designation for boreholes drilled in Jefferson County. A letter follows the numeric designation, which corresponds to a geographic grid of the county based on the Public Land Survey System as prescribed by the Mississippi Department of Environmental Quality (MDEQ) Office of Geology's Environmental Geology Division. The following borehole data and samples are catalogued and stored in the MDEQ Office of Geology's core and sample library and are available for public inspection.



Test Hole Index Map:

063C0024 (Tommy Bass's Gravel Pit #1)

Location: From NW Corner of Section 15 Irr., Township 10N, Range 1E, go 1470'E Thence

1410'S to Location

GPS Coordinates: N 31°51'10.1", W 91°04'45.2"

Elevation. 335 feet MSL (LIDAR Data)

Date: September 24-25, 2018

Purpose: Drilled 210 feet for stratigraphic information. Electrical log from 0-210 feet.

Depth (Feet) Descriptions 0-10 Sand, orange to red, coarse-grained, quartzose.

Gravel, quartz and chert up to 2 inches in diameter.



Image

7.5 feet: Gravel, brown to honey colored, chert, quartz, minimal quartz sand.2.5 feet: Clay, khaki to off white, soft,

kaolin.



20-30 Clay, pinkish khaki to off white, soft, kaolin.



30-40 Top of stem: Clay, pinkish khaki to off white, soft, kaolin.
Bottom of stem: Sand, khaki, fine to medium-grained, loose, quartzose.



Sand, khaki, fine to medium-grained, loose, quartzose, micaceous.



50-60 Sand, khaki, fine-grained, quartzose.
Pea-gravel, black, angular, chert.
Clay, khaki to white, kaolin.



60-70 Clay, khaki to greenish white, stiff.



70-80 Top of stem: Clay, khaki to greenish white, stiff.

Bottom of stem: Sand, khaki, medium to coarse-grained, quartzose.

Pea gravel, black, angular, chert.



5 feet: Sand, khaki, coarse-grained, quartzose.

Pea gravel, black, angular, chert. Ironstone ledge at 5 feet.

5 feet: Clay, khaki to off-white, stiff.



90-100 Clay, khaki to light gray, stiff.



100-110 Clay, grayish green, stiff.



Clay, grayish green, stiff.



120-130

-----End Day------Clay, grayish green, stiff.



130-140

Clay, grayish green, stiff, interbedded indurated sands, dark gray, quartzose, micaceous.



140-150 Clay, grayish green, stiff,
Bottom of stem: indurated, fine-grained sandstone



150-160 3 feet: Claystone, brown to gray, carbonaceous, indurated 7 feet: Clay, grayish green, stiff,



160-170 Clay, grayish green, silty, very stiff.



Clay, light gray, silty grading to sandy, heavy minerals.



180-190

Sand, khaki to gray, fine-grained, clayey, quartzose, kaolinitic, heavy minerals.



190-200

Sand, khaki to gray, fine-grained, clayey, quartzose, kaolinitic, heavy minerals.

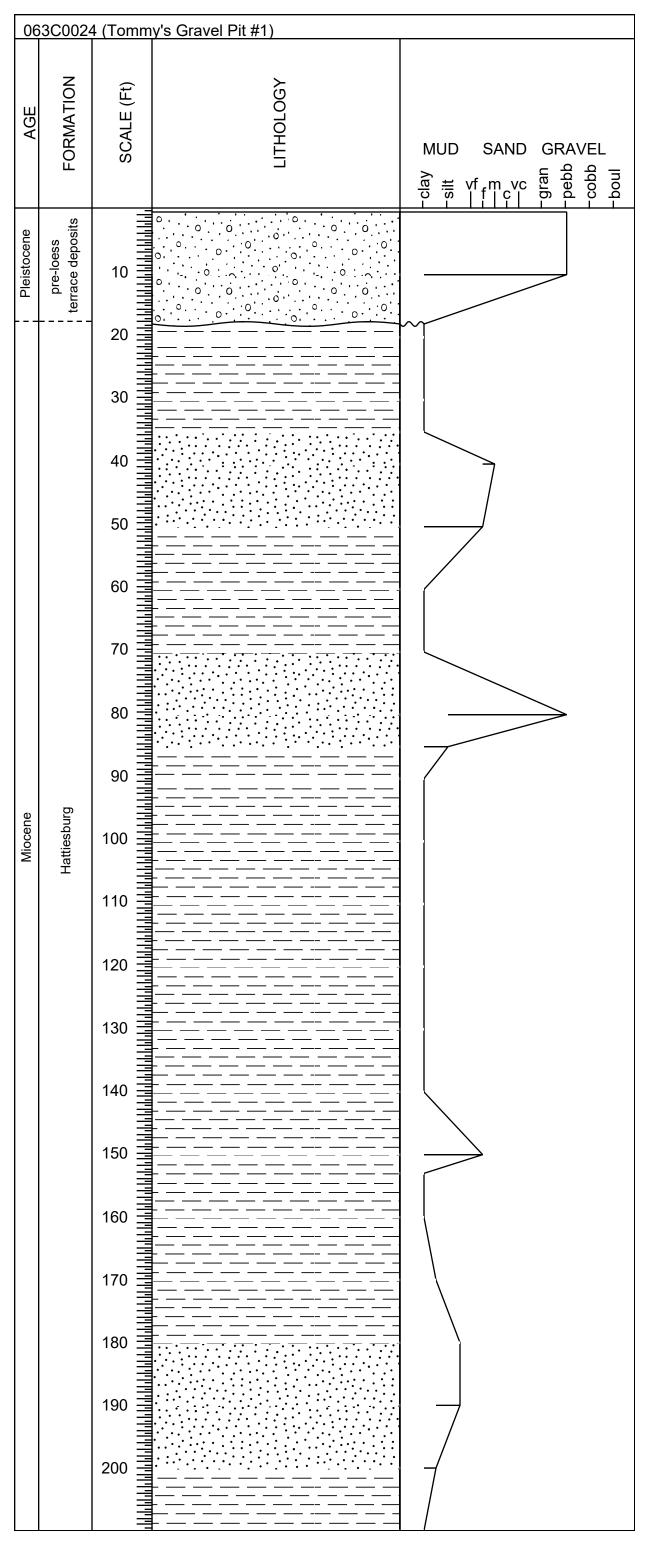


200-210

Clay, light grayish green, soft.



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Lithologies

Base Boundaries



Clay

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Sand



Sand and Gravel

063D0029 (Andy Brown #1)

Location: From southernmost corner of Section 27, Township 10N, Range 2E, go 1160 feet NE ASL thence NW@RA 1832 feet to location

GPS Coordinates: N 31°49'58.4", W 91°01'50.8"

Elevation. 253 feet MSL (LIDAR Data)

Date: October 1-2, 2018

Purpose: Drilled 254 feet for stratigraphic information. Electrical log from 0-254 feet.

Depth (Feet) Descriptions Image

0-10 Loess.



10-20 7 feet: Loess.

3 feet: Clay, red to brown, dense.



Clay, light gray to khaki, dense.



30-40

Clay, light gray to green, iron streaks.



40-50

Clay, light gray to greenish gray, stiff.



50-60

Clay, greenish gray, stiff, some mineralization

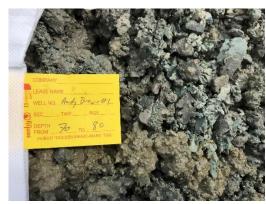


Clay, greenish gray, stiff.



70-80

Clay, greenish gray, bed of silt, brownish gray, clayey, micaceous.



80-90

6 feet: Clay, greenish gray, silty, stiff. 4 feet: Silt, gray, quartzose, micaceous, hard ledge at contact between clay and silt.



90-100

Top of stem: Clay, greenish gray, silty. Middle of stem: Sand, gray, very fine grained, quartzose, heavy minerals, micaceous. Bottom of stem: Clay, greenish gray,



-----End Day-----

silty.

100-110 Interbedded Clay, greenish gray, and Silt, quartzose, micaceous.



Sand, gray, fine-grained, clayey, quartzose, heavy minerals.



120-130 4 feet: Sand, gray, fine-grained, quartzose, micaceous.
6 feet: Interbedded Clay, greenish gray, and Silt, quartzose, micaceous.



130-140 Clay, grayish green, interbedded sands, dark gray, fine-grained, quartzose, micaceous.



140-150 Top of stem: Interbedded sand and clay.
Middle 5 feet: Sand, coarse, quartzose,
Pea gravel, black, angular.
Bottom of stem: Interbedded sand and
clay.

Washed sample figured due to lack of field sample photograph.



150-160 Clay, grayish green, interbedded finegrained sand and silt.



160-170 Clay, grayish green, interbedded indurated sandstone.



Top of stem: Clay, grayish green, stiff. Bottom of stem: Clay, greenish gray, soft.



180-190

Clay, greenish gray, silty.



190-200

Clay, greenish gray.



200-210

Clay, greenish gray.



210-220 Pea gravel, quartzose, chert, angular, sand, coarse-grained.



Pea gravel, quartzose, chert, angular, sand, coarse-grained.

Red inset image is unwashed field sample.



Pea gravel, quartzose, chert, angular, coated with pyrite, sand, coarse-grained.

Driller: "Bottom half of stem drilled as hard ledge."

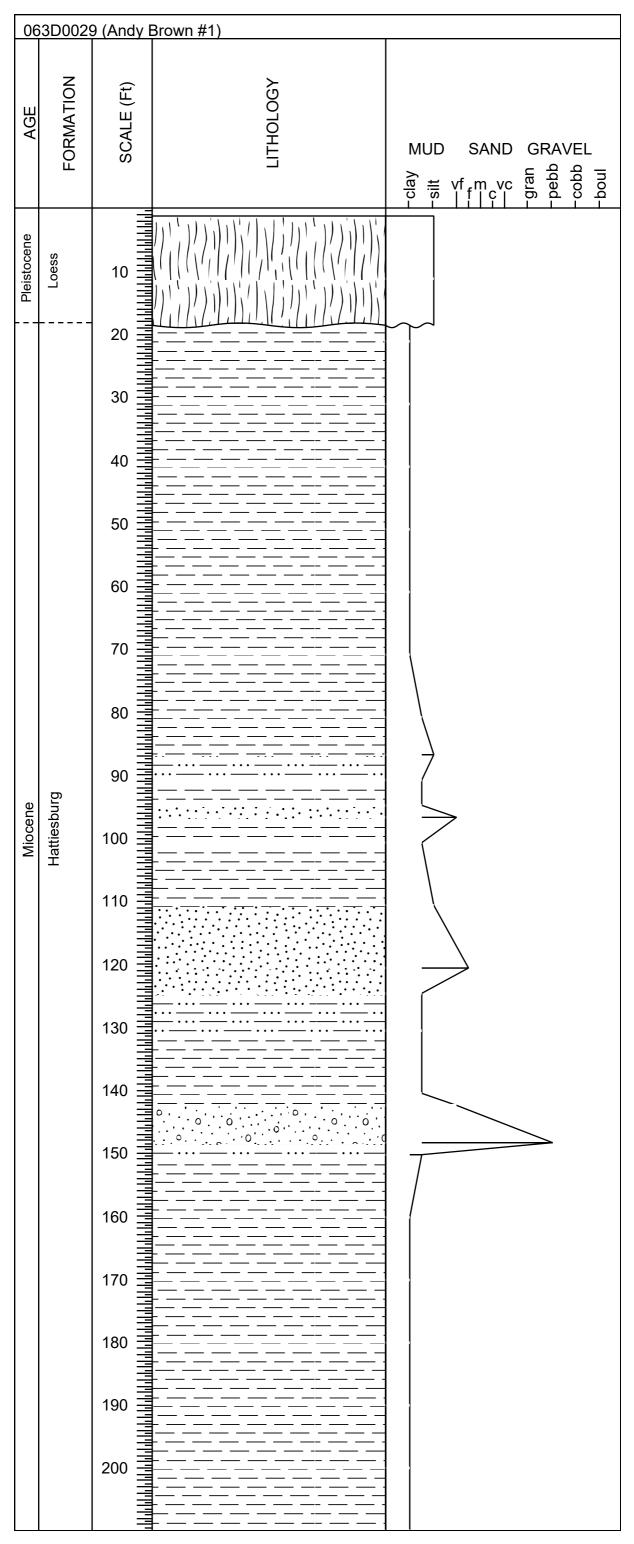


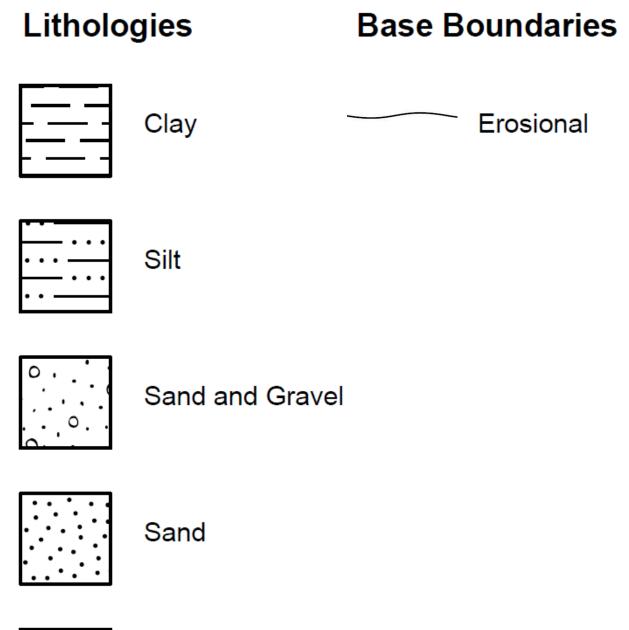
240-250 Sandstone, fine-grained, hard, quartzose.



250-254 Sandstone, pyritiferous, hard.

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