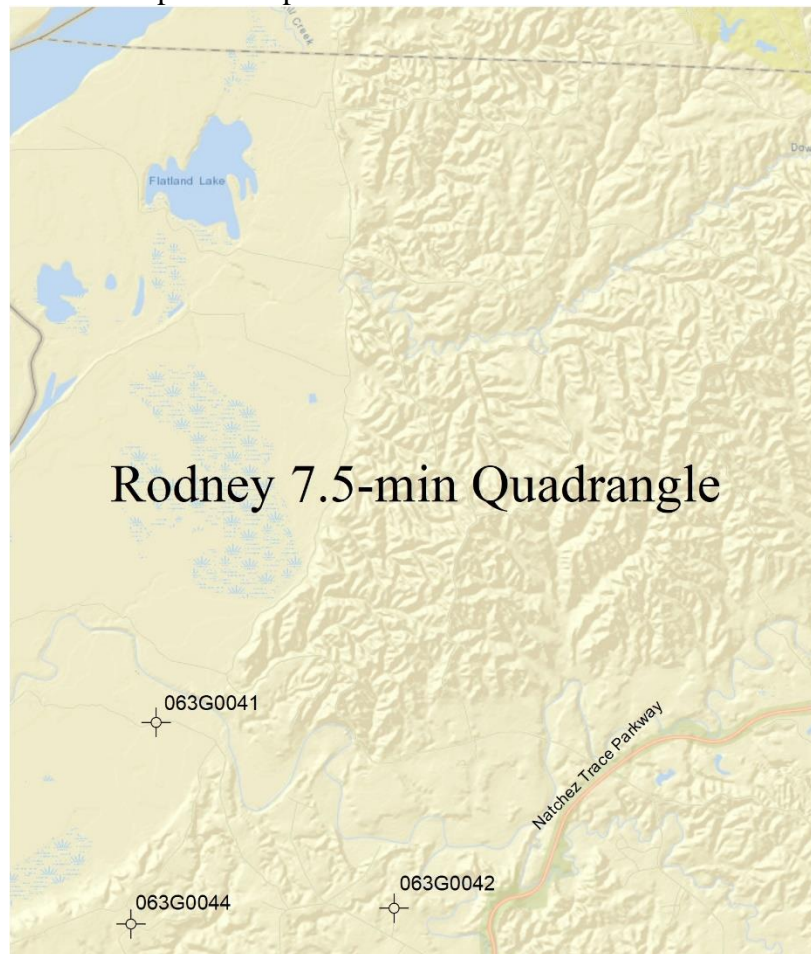


ACCOMPANYING TEST HOLE RECORDS FOR THE GEOLOGIC MAP OF THE RODNEY 7.5 MINUTE QUADRANGLE IN JEFFERSON AND CLAIBORNE COUNTIES, MISSISSIPPI



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 Rodney 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:



063G0041 (James Matheny #1)


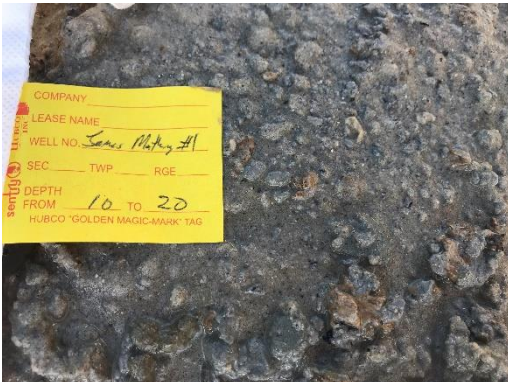
Location: From NW Corner of Section 13, Township 9N, Range 1W, go 2642'E Thence S @RA 1185' to Location

GPS Coordinates: N 31°46'53", W 91°13'38.9"

Elevation. 75 feet MSL (LIDAR Data)

Date: October 3, 2018

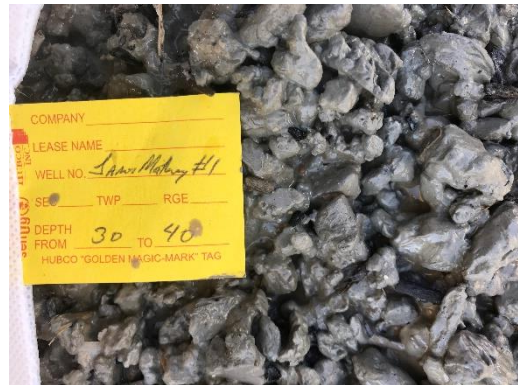
Purpose: Drilled 140 feet for stratigraphic information. Electrical log from 0-140 feet.

Depth (Feet)	Descriptions	Image
0-10	Silt, brown, iron manganese nodules, loess derived.	
10-20	Top of stem: Silt, brown, iron manganese nodules, loess derived. Bottom of stem: Sand, gray, medium-grained, loose, quartzose, lignitic.	

20-30 Sand, grayish tan, medium to coarse-grained. Wood @ 3-4 feet.



30-40 Silt, gray, clayey, anoxic loess derived.



40-50 Silt, gray, clayey, anoxic loess derived.



50-60 Silt, gray, clayey, anoxic loess derived.



60-70

Silt, gray, sandy.



70-80

Silt, gray, clayey, dry.



80-90

8 feet: Silt, gray, sandy, dry.
2 feet: Sand, medium to coarse-grained,
quartzose, carbonized wood fragments.



90-100

Sand, gray, medium to coarse-grained,
heavy minerals.
Pea gravel, brown, chert.



100-110 Sand, gray, medium to coarse-grained,
heavy minerals.
Gravel, brown, chert, fossil vertebrate
fragment.



110-120 8 feet: Gravel, chert, quartz, MS river
alluvium volcanics.
2 feet: Clay, greenish gray.

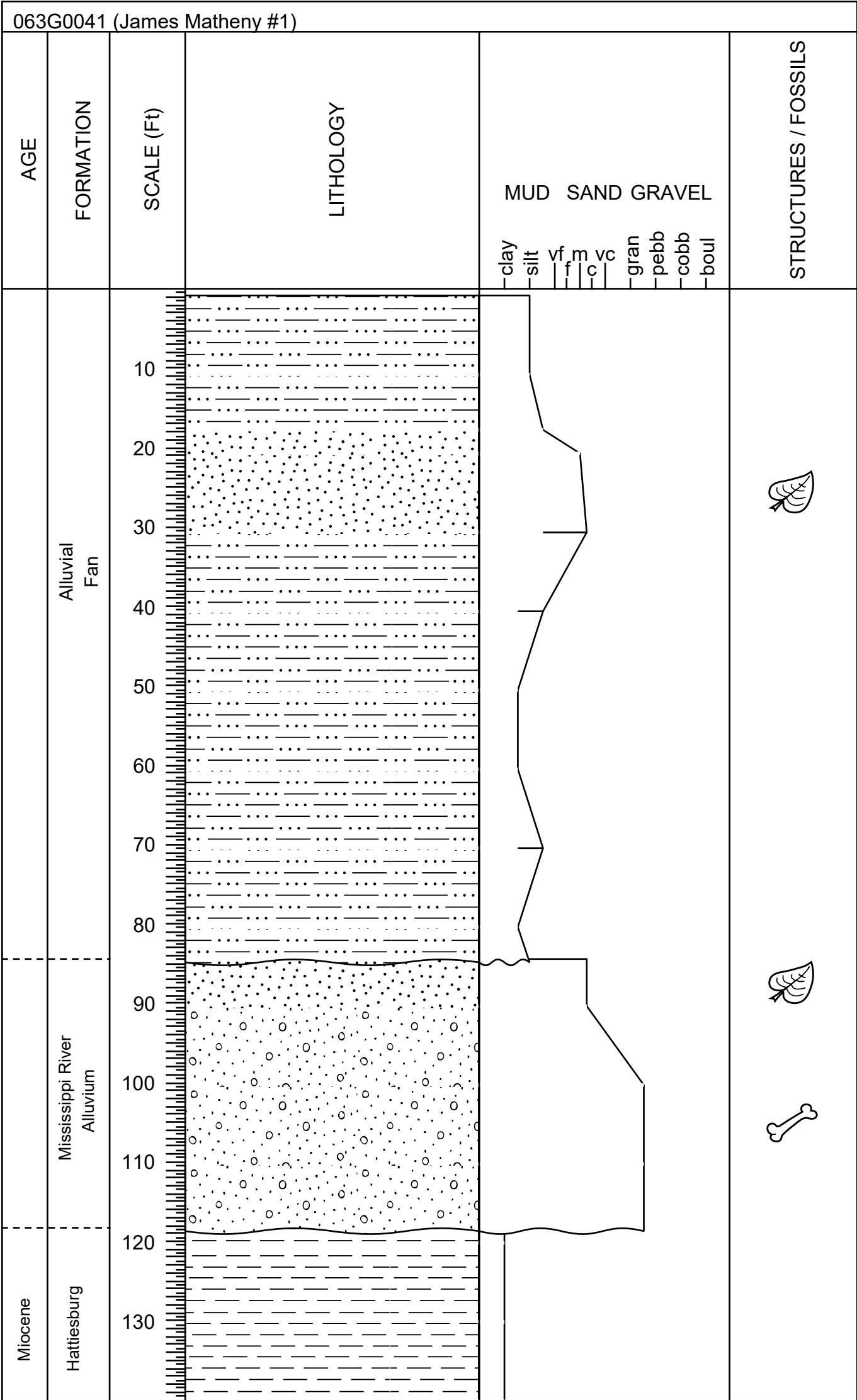


120-130 Clay, grayish green, stiff.



130-140 Clay, grayish green, stiff.

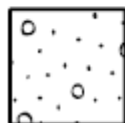




Lithologies



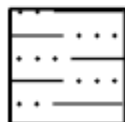
Clay



Sand and
Gravel



Sand



Silt

Symbols



Vertebrates



Plant material

Base Boundaries



Erosional

063G0042 (James Matheny #2)

Location: From West most corner of Section 22, Township 9N, Range 1W, go 2480' due east, thence 190' due south to location.

GPS Coordinates: N 31°45'25.6", W 91°11'27.0"

Elevation. 130.3 feet MSL (LIDAR Data)

Date: October 29-31, 2018

Purpose: Drilled 480 feet for stratigraphic information. Electrical log from 480 feet.

Depth (Feet)

Descriptions

Image

0-10

Loess, dry.



10-20

Loess, dry, calcareous.



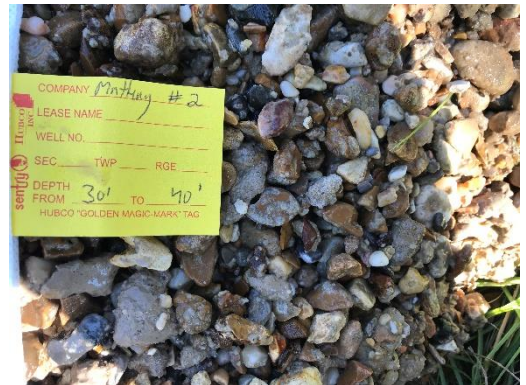
20-30

Loess, dry.



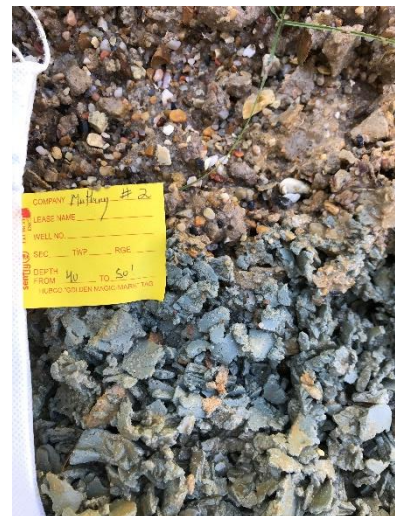
30-40

4 feet: Loess, dry, gastropod fossils.
6 feet: Gravel, tripolitic chert, quartzose, fossiliferous.



40-50

5 feet: Sand, khaki, medium to coarse-grained, quartzose.
Pea gravel, tripolitic chert, quartzose, fossiliferous.
5 feet: Clay, grayish green, stiff.



50-60 Clay, grayish green, stiff, silty.



60-70 Clay, grayish green, stiff, silty.



70-80 Clay, grayish green, stiff, silty.



80-90 Clay, grayish green, stiff, silty.



90-100 Clay, grayish green, stiff, silty.



100-110 Clay, grayish green, stiff, silty.



110-120 Clay, grayish green, stiff, silty.



120-130 Top of stem: Clay, greenish gray, silty.
Bottom of stem: Siltstone, gray.



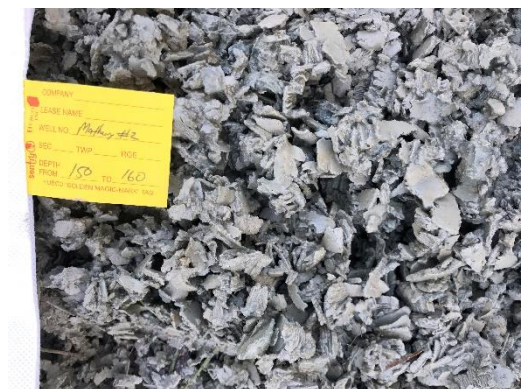
130-140 Top of stem: Siltstone, gray.
Bottom of stem: Silt, gray.



140-150 Clay, gray, stiff.



-----End Day-----
150-160 Clay, gray, stiff.



160-170 Clay, greenish gray, stiff.



170-180 Clay, gray, stiff.



180-190 Clay, gray, stiff.



190-200 Clay, gray, stiff, some maroon streaks.



200-210 Clay, gray, stiff, maroon streaks.



210-220 Clay, gray green, silty, sandy, stiff.



220-230 Clay, gray green, silty, sandy, stiff.



230-240 Clay, greenish gray, stiff, silty.



240-250 Clay, greenish gray, stiff.



250-260 Clay, greenish gray, stiff



260-270 Clay, greenish gray, stiff



270-280 Clay, gray, stiff.



280-290 Clay, greenish gray, stiff.



290-300 Clay, greenish gray, stiff.



300-310 Clay, greenish gray, stiff.



310-320 Clay, greenish gray, stiff.



320-330 Clay, greenish gray, stiff.



330-340 5 feet: Clay, greenish gray, stiff.
5 feet: Sand, gray, fine grained.

Poor recovery of sand.



340-350 Clay, greenish gray, stiff.



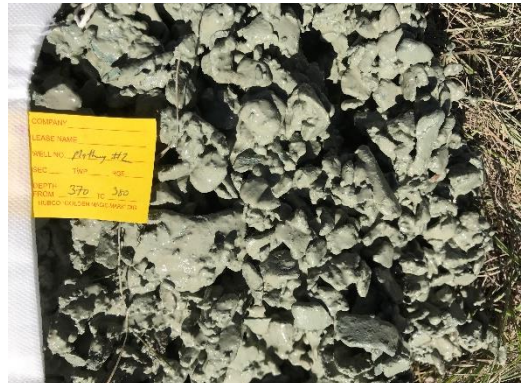
350-360 Clay, greenish gray, stiff.

No image.

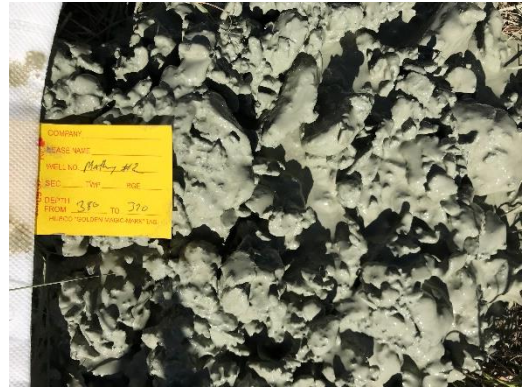
360-370 Clay, greenish gray, stiff.



370-380 Clay, greenish gray, stiff.



380-390 Clay, greenish gray, stiff.



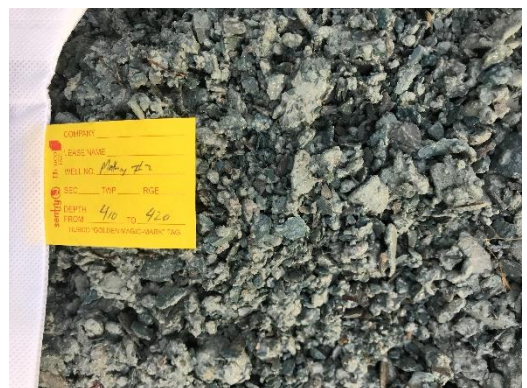
-----End Day-----
390-400 Clay, greenish gray, stiff, silty.



400-410 Clay, greenish gray, stiff, silty.



410-420 Clay, greenish gray, stiff, silty.



420-430 Clay, greenish gray, stiff, silty.



430-440 Clay, greenish gray, stiff, silty.



440-450 Clay, greenish gray, stiff, silty.



450-460 Clay, greenish gray, stiff, silty.

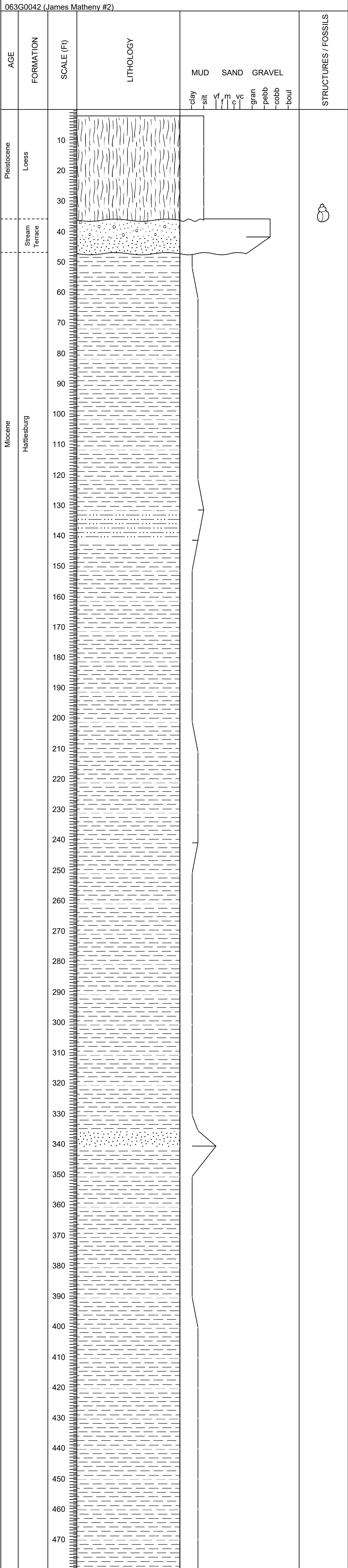


460-470 Clay, greenish gray, stiff, silty.



470-480 Clay, greenish gray, stiff, silty.

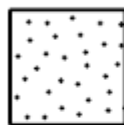
No image.



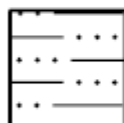
Lithologies



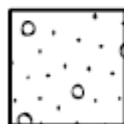
Clay



Sand



Silt



Sand and Gravel



Loess

Symbols



Gastropods



Erosional

063G0044 (Eugene Bates #2)



Location: From South Most Corner of Section 19, Township 9 North, Range 1 West, go 2135' NW ASL, Thence 930' NE @RA to Location

GPS Coordinates: N 31°45'18.0", W 91°13'52.9"

Elevation: 195 feet MSL (LIDAR Data)

Date: April 1-2, 2019

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

Depth (Feet)	Descriptions	Image
0-10	Loess, khaki, weathered, pedogenic iron manganese concretions.	
10-20	Loess, khaki to gray, weathered to anoxic, pedogenic iron manganese concretions.	

20-30

Loess, grayish green, pulmonate gastropod fragments.



30-40

Loess, grayish green, pulmonate gastropod fragments, loess dolls.



40-50

Loess, grayish green, pulmonate gastropod fragments, loess dolls..



50-60

Top of stem: Loess, grayish green, pulmonate gastropod fragments, loess dolls.
Bottom of stem: Clay, khaki, silty, pedogenic iron manganese nodules.



60-70

Clay, khaki, silty, pedogenic iron manganese nodules.



70-80

Clay, khaki, silty.



80-90

Clay, grayish khaki, silty, iron hydroxide mottling.



90-100

Clay, khaki gray, minimal silt.



100-110 Clay, grayish khaki, minimal silt, stiff.



110-120 Clay, greenish khaki, silty.

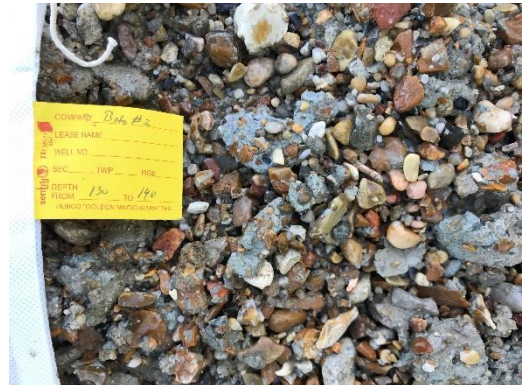


120-130 Silt, greenish gray, coarsening to Sand, gray, fine to coarse-grained, coarsening to Pea gravel, chert, quartz, sandy.

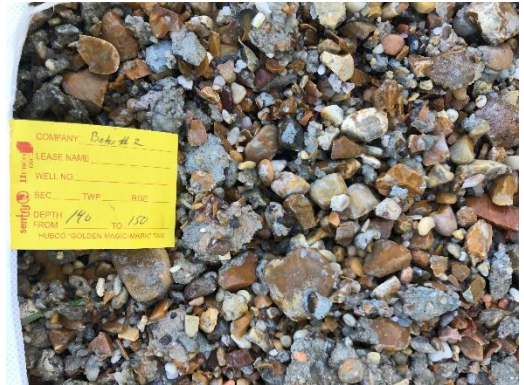


-----End Day-----

130-140 Pea Gravel, up to 1 inch in diameter, chert, quartz, sandy.



140-150 Gravel, fragments up to 1 inch in diameter, chert, quartz, sandy.



150-160 Drilled as sand.

Poor Recovery.

Float Sample.



160-170 Top of stem: drilled as sand, coarse-grained.
Bottom of stem: drilled as gravel.

Poor Recovery.



170-180 5 feet: Sand, grayish khaki, coarse-grained.

5 feet: Clay, khaki to gray, silty, stiff.



180-190 Clay, blueish gray, silty

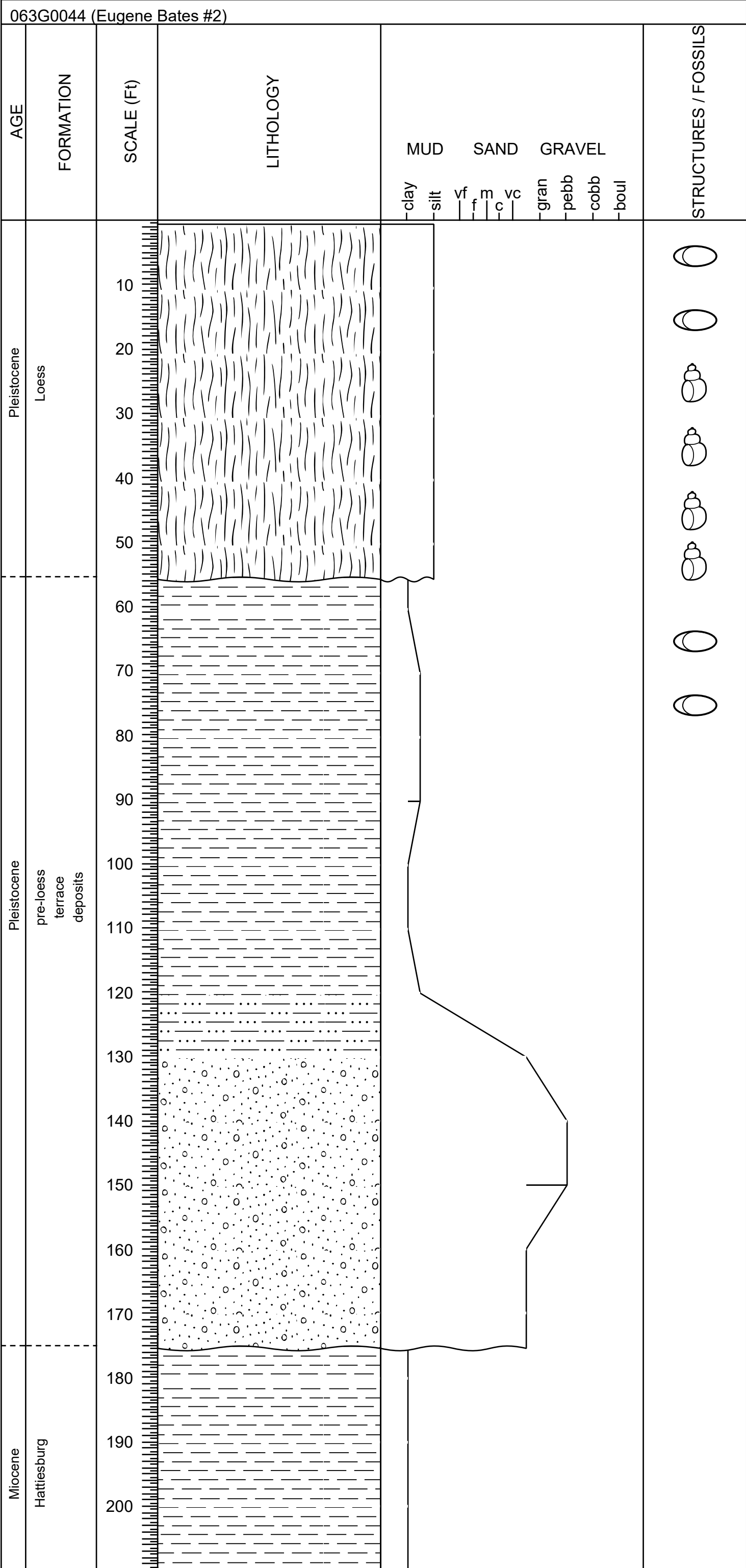


190-200 Clay, blueish gray to blueish green, interbedded clayey sand.



200-210 Clay, grayish green, stiff.

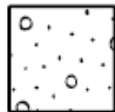




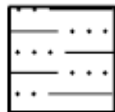
Lithologies



Clay



Sand and
Gravel



Silt



Loess

Symbols




Nodules and concretions



Gastropods

Base Boundaries

 Erosional