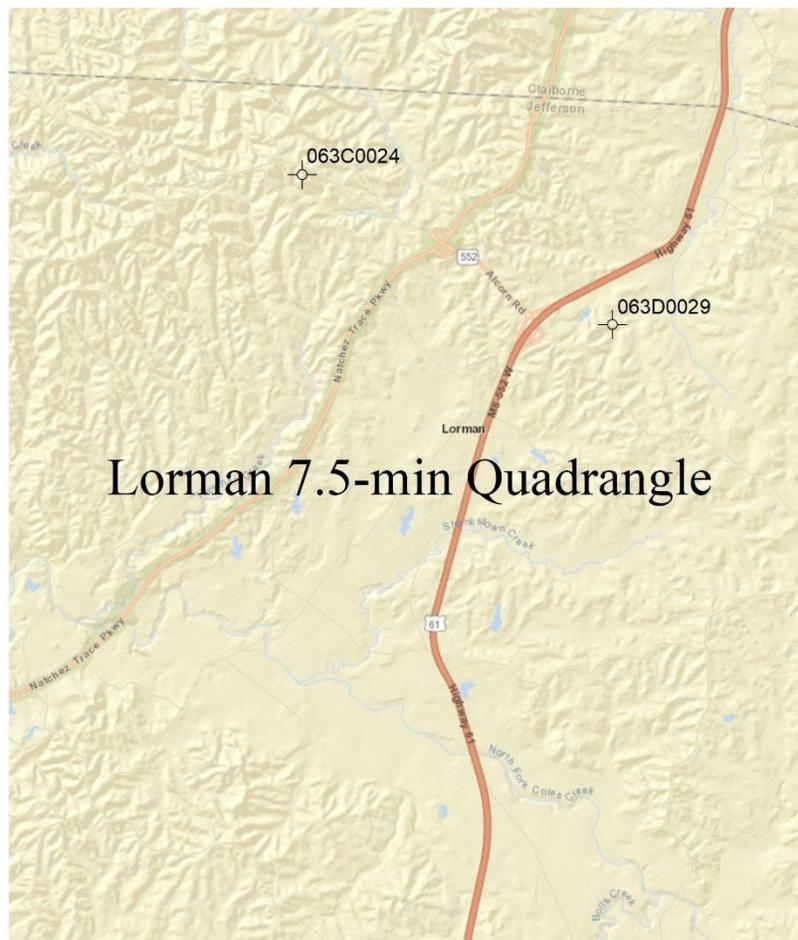


ACCOMPANYING TEST HOLE RECORDS FOR THE GEOLOGIC MAP OF THE LORMAN 7.5 MINUTE QUADRANGLE IN JEFFERSON AND CLAIBORNE COUNTIES, MISSISSIPPI



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

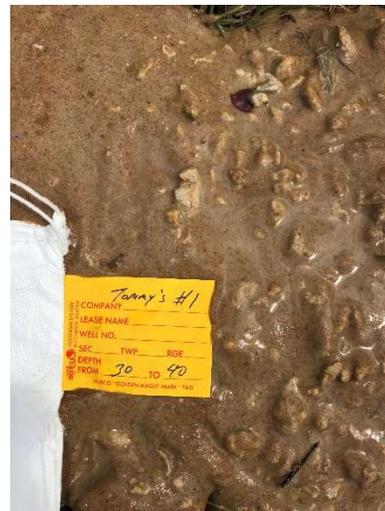
Purpose: Drilled 210 feet for stratigraphic information. Electrical log from 0-210 feet.

Depth (Feet)	Descriptions	Image
0-10	Sand, orange to red, coarse-grained, quartzose. Gravel, quartz and chert up to 2 inches in diameter.	
10-20	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.



40-50 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.



80-90

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.



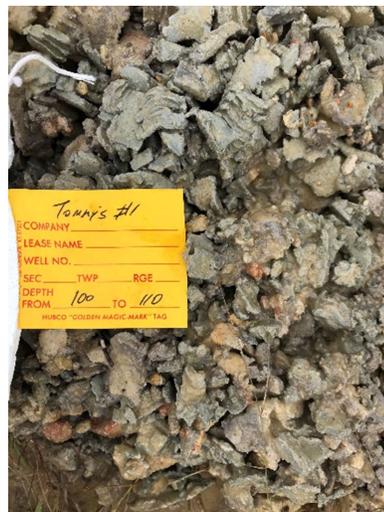
90-100

Clay, khaki to light gray, stiff.



100-110

Clay, grayish green, stiff.



110-120 Clay, grayish green, stiff.



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

120-130 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.



170-180 Clay, light gray, silty grading to sandy, heavy minerals.



180-190 Sand, khaki to gray, fine-grained, clayey, quartzose, kaolinitic, heavy minerals.



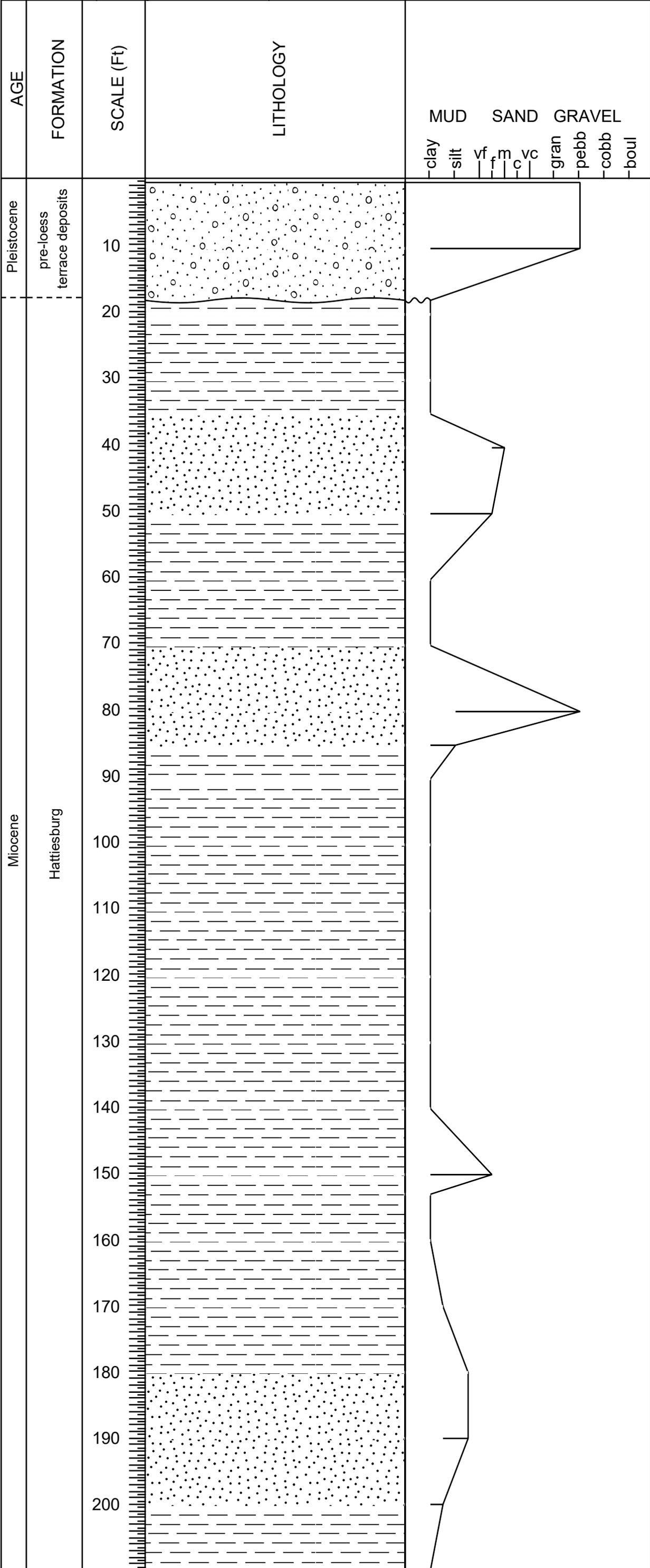
190-200 Sand, khaki to gray, fine-grained, clayey, quartzose, kaolinitic, heavy minerals.



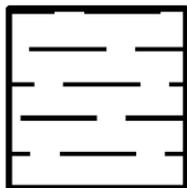
200-210 Clay, light grayish green, soft.



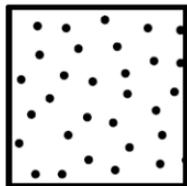
063C0024 (Tommy's Gravel Pit #1)



Lithologies



Clay



Sand



Sand and Gravel

Base Boundaries



Erosional

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

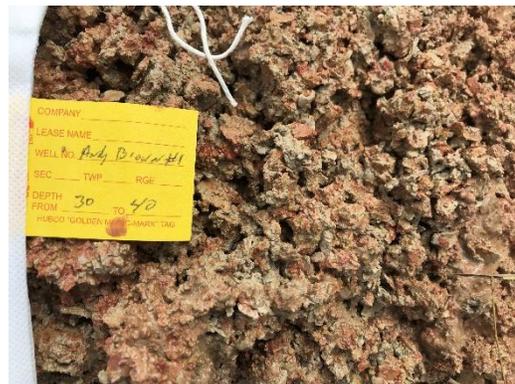
Purpose: Drilled 254 feet for stratigraphic information. Electrical log from 0-254 feet.

Depth (Feet)	Descriptions	Image
0-10	Loess.	
10-20	7 feet: Loess. 3 feet: Clay, red to brown, dense.	

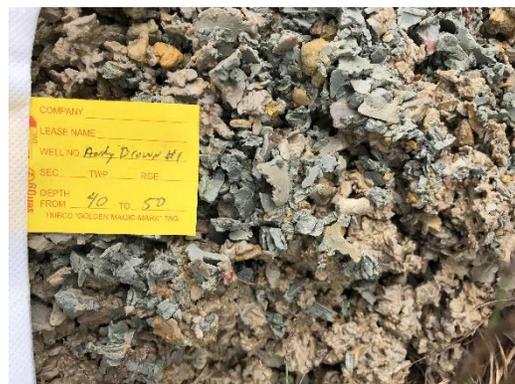
20-30 Clay, light gray to khaki, dense.



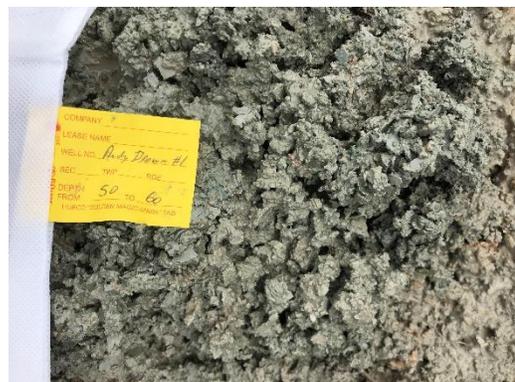
30-40 Clay, light gray to green, iron streaks.



40-50 Clay, light gray to greenish gray, stiff.



50-60 Clay, greenish gray, stiff, some mineralization



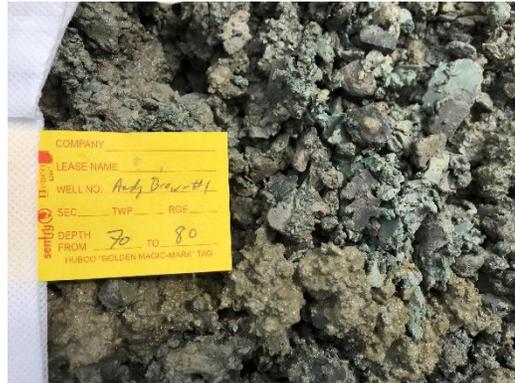
60-70

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,
silty.



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

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



110-120 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.

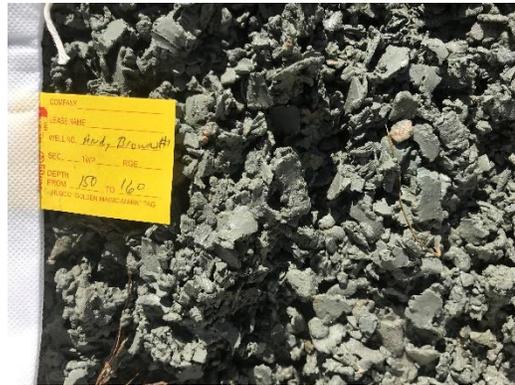


140-150 Top of stem: Interbedded sand and clay.
Middle 5 feet: Sand, coarse, quartzose,
Pea gravel, black, angular.
Bottom of stem: Interbedded sand and
clay.

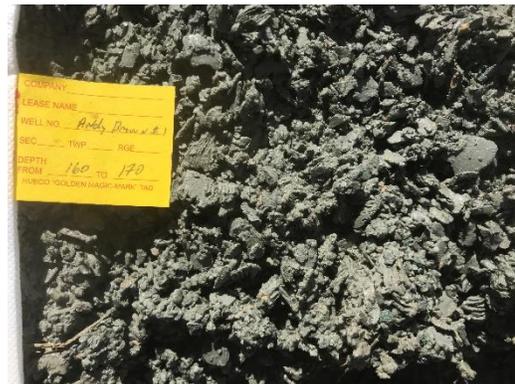
*Washed sample figured due to lack of
field sample photograph.*



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



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



170-180 Top of stem: Clay, grayish green, stiff.
Bottom of stem: Clay, greenish gray, soft.



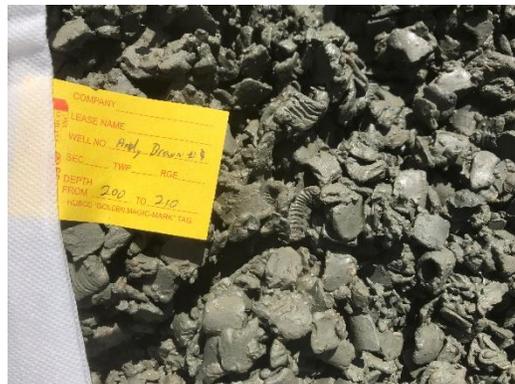
180-190 Clay, greenish gray, silty.



190-200 Clay, greenish gray.



200-210 Clay, greenish gray.



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



220-230 Pea gravel, quartzose, chert, angular, sand, coarse-grained.

Red inset image is unwashed field sample.



230-240 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.

MISSISSIPPI OFFICE of GEOLOGY



COMPANY Mississippi Office of Geology - Environmental
CLIENT Mississippi Office of Geology - Surface
WELL ID Andy Brown #1
COUNTY Jefferson **STATE** MS
LOCATION
 31 49 58.4 N / 91 01 50.8 W ***GPS***
 From Southern Most Corner go 1160'NE ASL
 Thence NW @RA 1832' to Location

PERMANENT DATUM MSL **ELEVATION** 253' lidar
LOG MEAS. FROM Ground Level **ABOVE PERM. DATUM**
DRILLING MEAS. FROM Ground Level **G.L. 253'**

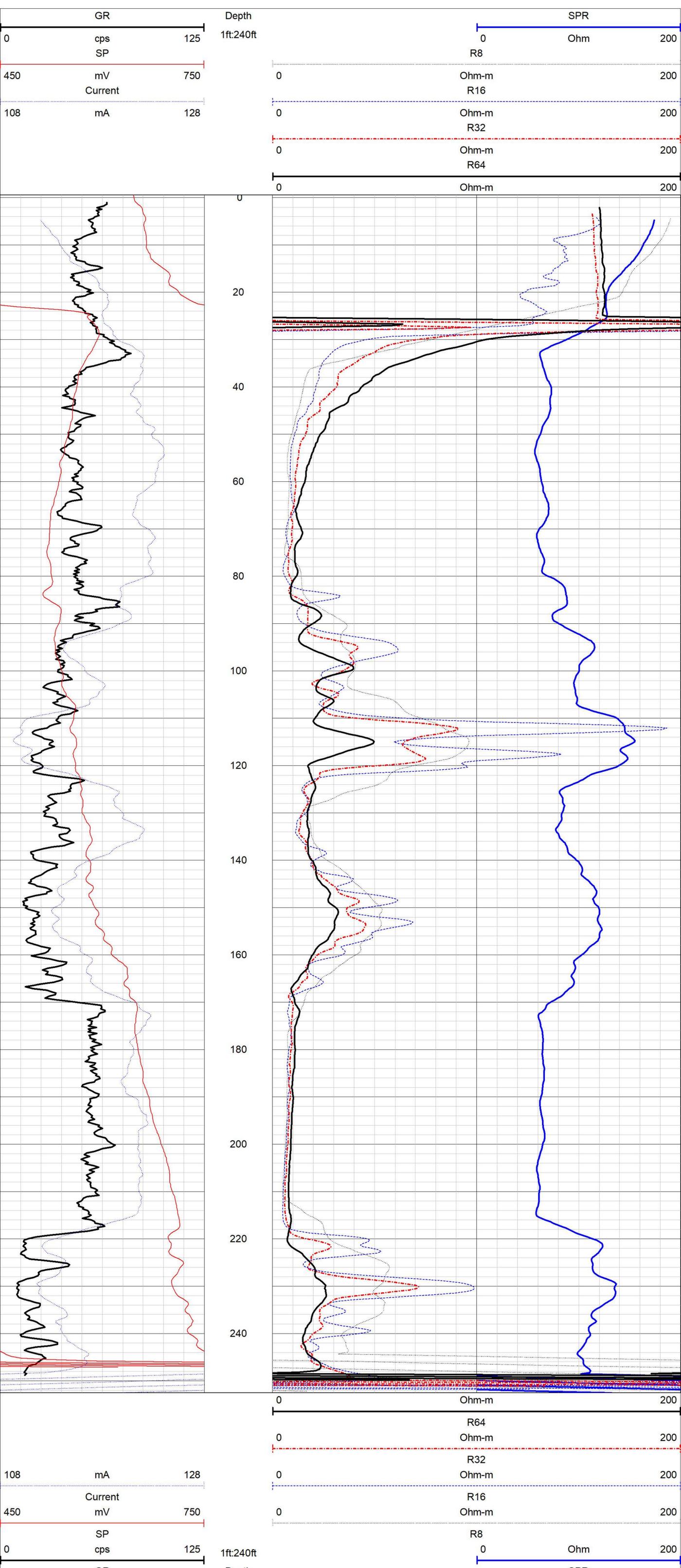
DATE 2 October 2018 **TYPE FLUID IN HOLE** Drilling Mud
RUN No 1 **SALINITY**
TYPE LOG GR,SP,SPR,CUR,R8,R16,R32,R64 **DENSITY**
DEPTH-DRILLER 254' **LEVEL**
DEPTH-LOGGER 253' **MAX. REC. TEMP.**

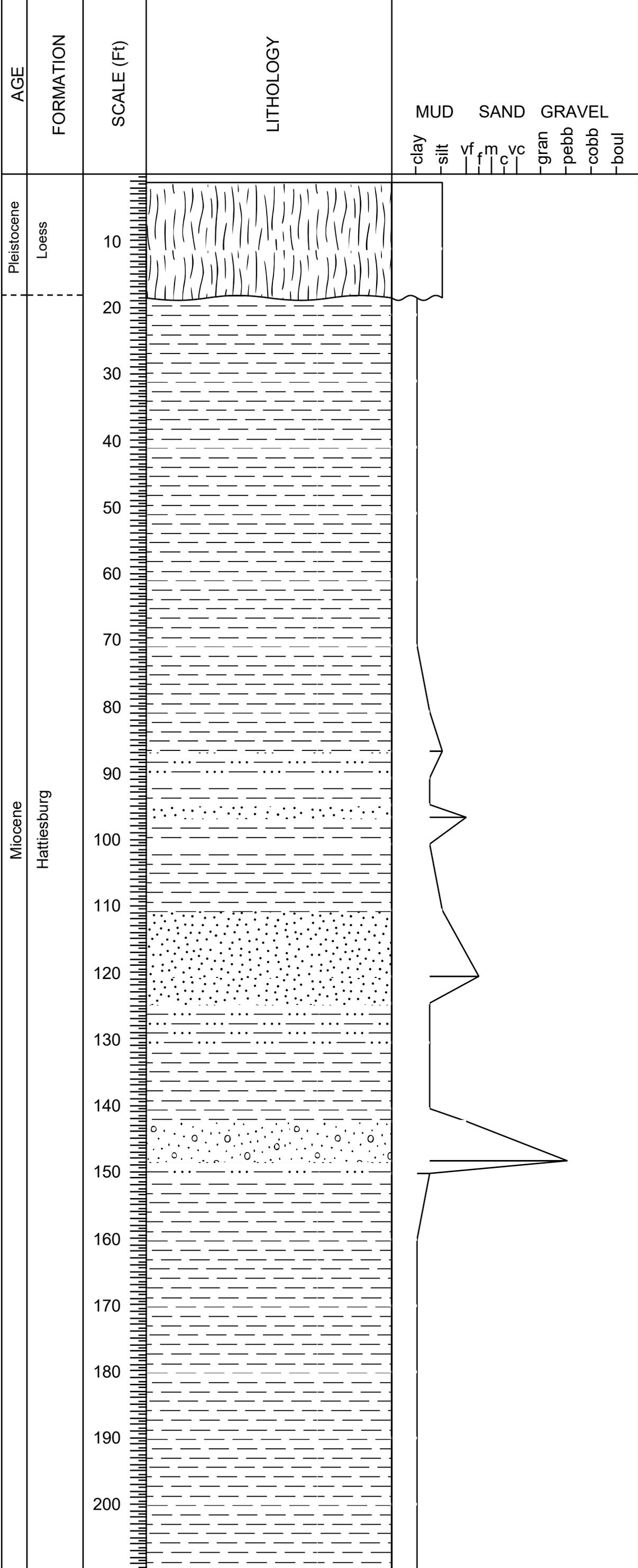
ENGINEER Log Spliced at
GEOLOGIST James Starnes RPG **Digital File Name**
DRILLER Trey Magee **MOG File #** JEFFD0029
RECORDED BY Andrew Newcomb RPG
WITNESSED BY Johnathan Leard

RUN **BOREHOLE RECORD** **CASING RECORD**
NO. **BIT** **FROM** **TO** **SIZE** **WGT.** **FROM** **TO**
 1 5.000" 0' 254' Open Hole 0' 254'
 2 **ELD523063D0029A** **ELD123063D0029B**

E-LOG FILE #

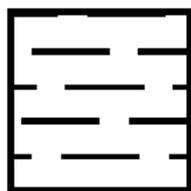
D-0029



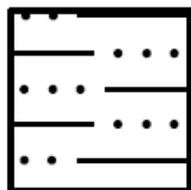


Lithologies

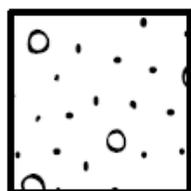
Base Boundaries



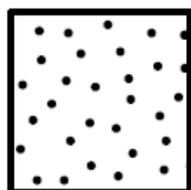
Clay



Silt



Sand and Gravel



Sand



Loess



Erosional