

STATE WELL REPORT

Part 1

Driller's Log

Mississippi Department of Environmental Quality
Office of Land and Water Resources
P.O. Box 2309
Jackson, MS 39225-2309
(601)961-5210
(601)360-0535 (fax)

For Office Use Only:

Well #: C165
Aquifer: _____
E-Log #: C-0165

County: JACKSON
Permit #: _____
Driller: MS OFFICE OF GEOLOGY
Date drilling completed: 10/31/2017

State Law requires that this report be prepared by the license holder responsible for the work and filed with the Department at the above address within 30 days of completion of drilling of the well or borehole.

Well Owner Information <i>(Landowner if borehole is not for a water well)</i>	Well or Borehole Location
Owner Name: JACKSON COUNTY UTILITY AUTH. POLKTOWN #1 Mailing Address: 1225 Jackson Ave, Pascagoula, MS 39567 Telephone No. (228) 762-0119	Latitude: 30 42'08"N Longitude: 88 32'47" W Method of Lat/Long <i>(check one)</i> : Conventional Survey _____, USGS quad _____, Hand-held GPS <u>X</u> , Survey-grade GPS _____ NW ¼ NW¼ Sec 13 T 4S R 6W _____ Miles _____ NE _____ of <i>(Distance) (Direction) (Nearest Town)</i>

Well / Borehole Data

Date drilling started: 10/30 /2017 Date drilling completed: 10/31/2017 Hole depth: 140' Hole diameter: 5"

Location of the source of any surface water used for drilling:

Method of dosing and volume of Chlorine used in drilling and development

Logs run *(circle all applicable)*: No log run Electric Gamma Ray Density Sonic Neutron Other:

Name of organization running log(s): MDEQ/OFFICE OF GEOLOGY

Purpose of borehole *(circle one)*: Water Well Geotechnical/Geological Investigation Ground Source Heat Pump
Seismic Survey Other *(describe)* POLKTOWN #1

If drilling is not related to water well construction, skip the remainder of this block

Purpose of Well *(circle all applicable)*: Home Industrial Public Supply Irrigation Fish Culture
Other *(describe)*: Test Hole (?)

If a flowing well, method of flow regulation: Valve _____ Other *(describe)* _____

Static Water Level: _____ feet [above or below] land surface Date measured: _____
(circle one)

Method of measurement *(circle one)*: Steel tape Electric tape Air line Other *(describe)*: _____

Well depth: 140 Well grouted to a depth of: 140 feet Type of grout *(circle one)*: Neat Cement Bentonite Mix

Casing length: _____ feet Casing diameter: _____ inches Type of casing: _____

Screen length: _____ feet Screen diameter: _____ inches Type of screen: _____

Screen slot size: _____ inches Setting depth: From _____ feet to _____ feet

Type of completion *(circle all applicable)*: Gravel packed Underreamed Open hole Natural Development
Other *(describe)*: _____

Top of lap pipe or reduction in casing: _____ feet

If telescoped or more than one screen, describe on next page

Drill Hole: Jackson County Utility Authority, Polktown #1 (C-0165)
SW ¼ of the SW ¼ of the NW ¼ of the NW ¼ Section 13, Township 4 South,
Range 6 West
GPS Coordinates: N 30.702242, W 088.545954
Jackson County, Mississippi
Elev. 80ft. MSL

0'-10'—One foot of fine-grained, organic-rich, brown quartz sand (topsoil). 1-4 foot orange-colored, medium grained quartz clayey sand grading to tan-and orange colored mottled coarse-grained quartz sand with white-colored tripolitic, chalky, white-colored, chert gravel.

10'-20'—Loose, coarse-grained quartz sand and tripolitic, chalky, white-colored, chert gravel.

20'-30'—Eight feet of loose, coarse-grained quartz sand and tripolitic, chalky, white-colored, chert gravel. Bottom 2 feet, white-colored, kaolinitic, soft clay.

30'-40'—Nine feet of white-colored, kaolinitic, soft clayey sand and silty clay. Bottom 1 foot, soft, white and pink mottled kaolinitic clay.

40'-50'—Five feet of soft, white and pink mottled kaolinitic clay. Bottom 5 feet orange-colored silt grading to orange-colored, stiff, silty clay.

50'-60'—Grey-colored silty clay and slightly micaceous clayey silts with some manganese streaks and some pea-size pyrite nodules.

60'-70'—Grey-green colored silty to fine-grained sandy clay at top of stem. Bottom 1.5 feet of stem grey-green colored stiff clay.

70'-80'—Stiff, blue-grey colored clay. .

80'-90'—Stiff, blue-grey colored clay, silty and slightly micaceous in part with sparse pea-sized, pyrite nodules and some traces of caliche.

90'-100'—Six feet of blue-grey colored clay with some lighter-colored clayey silts interbedded. Bottom 4 feet, stiffer blue-grey colored clay with slightly larger (¼ inch) sparse pyrite nodules.

100'-110'—Blue-grey colored stiff clay.

110'-120' ---Blue-grey colored stiff clay.

120'-130' --- Blue-grey colored stiff clay, slightly silty in-part.

130'-140' --- Blue-grey colored stiff clay.

T.D.