Does not need Part 2

County: JACKSON

Permit #: _____

Driller: MS OFFICE OF GEOLOGY

Date drilling completed: 9/27/2017

# 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 #: G233

Aquifer: _____

E-Log #: G-0233

***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 (*Landowner if borehole is not for a water well*) | Well or Borehole Location |
|---|---|
| **Owner Name:** MS DEPT WILDLIFE FISHERIES &PARKS- **CAT LAKE TH#1** | Latitude: 30 37'02.9" Longitude: 88 36'47.8" |
| **Mailing Address: 1505 EASTOVER DR** | Method of Lat/Long (*check one*): Conventional Survey_____, |
| | USGS quad_____, Hand-held GPS X , Survey-grade GPS_____ |
| **City: JACKSON State MS Zip Code 39211** | NW ¼ NW¼ NW ¼ NW¼ Sec 17 T 5S R 6W |
| Telephone No. (601) 432-2400 | _____Miles ____NE_____ of (*Distance*) (*Direction*) (*Nearest Town*) |

**Well / Borehole Data**

Date drilling started: 9/26/2017 Date drilling completed: 9/27/2017 Hole depth: 200' Hole diameter: 5"

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

Method of dosing and volume of Chlorine used in drilling and development: 1 GAL BLEACH TO 1000 GALLONS WATER

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*) **CAT LAKE TH#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*): _____

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

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

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

Well depth: 200 Well grouted to a depth of: 200 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***

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***The sketch below only required for water wells***

***If well telescopes, show depths on sketch.***

Ground Level

If more than one screen, show location of each on sketch

***Description of formations encountered must be provided for all wells and boreholes, unless specifically exempted by regulations***

| Description of Formations Encountered | From (*depth*) | To (*depth*) |
|---|---|---|
| | Ground level | |
| SEE DRILL NOTES ATTACHED | | |
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Sketch the property layout and include the following:

1) the well location
2) any permanent structures on the property that may aid in locating the well
3) any roads, power lines, or other items that may aid in locating the property and the well
4) north arrow

Landowner Name: _____

I HEREBY CERTIFY that the well/borehole was drilled, constructed, and completed in accordance with all applicable requirements of the Mississippi Department of Environmental Quality and the Mississippi Department of Health regulations, if applicable, and state laws.

ARCHIE MCKENZIE UNR-555
Print Name of Responsible Licensee and License No.

10/5/2017
Date

Signature of Licensee

Form: OLWR-SWR-1A (*4/13*)

G233

Drill Hole: MDWFP Cat Lake #1 JACKSON CO G-0233
Northwest ¼ of the NW ¼ of the NW ¼ of Section 17, Township 5 South, Range 6 West
GPS Coordinates: N 30.617435, W 88.613597
Three Rivers Mississippi 7.5 min USGS Quadrangle
Jackson County, Mississippi
Elev. 8ft. MSL

0'-10'—Brown silty clay grading to grey silty clay with orange mottles.

10'-20'—Grey silty clay at the top of stem. Then clean, white, fine- to medium-grained quartz sand.

20'-30'— Clean, white, medium- to coarse-grained quartz sand with pea gravel consisting of quartz and grey and white chert.

30'-40'— 5 feet of clean, white, coarse-grained quartz sand with pea gravel consisting of quartz and grey, white, and black colored chert (some angular). 5' of reddish-yellow soft clay grading to blue-green colored soft clay.

40'-50'—Blue-green colored stiff clay.

50'-60'— Blue-green colored stiff clay.

60'-70'—3 feet of blue-green colored stiff clay. 3-4 feet of dark olive green-colored micaceous silty fine-grained quarts sand. Bottom of stem, grey-green colored clay.

70'-80'—Grey-green colored clayey silt (quartzose and micaceous with some dark minerals).

80'-90'— Grey-green colored clayey silt grading into silty fine-grained sand (quartzose and micaceous with some dark minerals).

90'-100'— Grey-colored, fine-grained sand (quartzose and micaceous with some dark minerals) with interbedded black lignitic clay containing well-preserved woody fragments.

100'-110'—Drilled as sand. Poor recovery.

110'-120'—First 3 feet drilled as sand. 3-10 feet soft light blue-grey colored clay.

120'-130'—Stiff, blue-grey colored silty clay.

130'-140'— Stiff, blue-green colored waxy-textured clay.

140'-150'— Stiff,, blue-green to grey-green colored waxy-textured clay.

150'-160'—Upper 3 feet, blue-green colored clay. Grades into silty to fine-grained sandy clay and then into fine grained sand. Poor recovery on coarse-grained fraction of stem.

160'-170'—5 feet of fine grains sand (quartzose and micaceous with some dark minerals). 5 feet of blue-green colored clay.

170'-180'—Brown-colored, carbonaceous, silty, fine-grained, micaceous quartz sand with finely disseminated black lignite flecks.

180'-190'— Dark brown-colored, lignitic, silty, fine-grained, micaceous quartz sand with well preserved, black-colored, woody pyritic lignite fragments.

190'-200'—2 feet of dark brown-colored, lignitic, silty, fine-grained, micaceous quartz sand with well-preserved, black-colored, woody pyritic lignite fragments. 5 feet of fine-grained quartz sand. Bottom 3 feet, grey-green colored.

T.D.