

# STATE WELL REPORT

132

County: Leflore, MS  
 Permit #: \_\_\_\_\_  
 Driller: Roland W Tollett (RMO-00009026)  
 Date drilling completed: 04/12/2019

**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)961-5555  
 (601)961-5228 (fax)

**For Office Use Only:**

Well #: G180  
 Aquifer: \_\_\_\_\_  
 E-Log #: \_\_\_\_\_

USGS site name: OW-11

*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.*

|  |   |
|--|---|
| <p style="text-align: center;"><b>Well Owner Information</b><br/>                 (Landowner if borehole is not for a water well)</p> <p>Owner Name: (landowner) <u>Wesley Plantation</u><br/>                 Mailing Address: <u>USGS (driller - rtollett@usgs.gov)</u><br/> <u>3095 W. California Ave</u><br/>                 Ruston LA 71270<br/>                 City State Zip Code<br/>                 Telephone No. (318) 251-9630 (245-8639 cell)</p> | <p style="text-align: center;"><input checked="" type="checkbox"/> Well or <input type="checkbox"/> Borehole Location</p> <p>Latitude: <u>33.58043</u> Longitude: <u>-90.26837</u><br/>                 Method of Lat/Long (check one): Conventional Survey _____,<br/>                 USGS quad _____, Hand-held GPS <input checked="" type="checkbox"/>, Survey-grade GPS _____<br/> <u>SW</u> <input checked="" type="checkbox"/> <u>SE</u> <input checked="" type="checkbox"/> <u>1/4</u>, Sec. <u>23</u> T <u>20</u> N R <u>01</u> W<br/> <u>1.75</u> Miles <u>South</u> of <u>Shellmound MS</u><br/>                 (Distance) (Direction) (Nearest Town)</p> |
|--|---|

**Well / Borehole Data**

Date drilling started: 4/12/2019 Date drilling completed: 4/12/2019 Hole depth: 72 ft bls Hole diameter: 2.25 in  
 Location of the source of any surface water used for drilling: none used  
 Method of dosing and volume of Chlorine used in drilling and development: none used  
 Logs run (check applicable):  No log run  Electric  Gamma Ray  Density  Sonic  Neutron  Other: \_\_\_\_\_  
 Name of organization running log(s): USGS, 3095 W. California Ave, Ruston, LA 71270 (318) 251-9630 x13  
 Purpose of borehole (check one):  Water Well  Geotechnical/Geological Investigation  Ground Source Heat Pump  
 Seismic Survey  Other (describe) \_\_\_\_\_  
*If drilling is not related to water well construction, skip the remainder of this block*  
 Purpose of Well (check all applicable):  Home  Industrial  Public Supply  Irrigation  Fish Culture  other  
 Other (describe): monitoring well  
 If a flowing well, method of flow regulation: Valve \_\_\_\_\_ Other (describe) \_\_\_\_\_  
 Static Water Level: 26.84 feet  above or  below land surface Date measured: 4/29/2019 @ 1645  
 Method of measurement (check one)  Steel tape  Electric tape  Air line  Other (describe): \_\_\_\_\_  
 Well depth: 70.5 Well grouted to a depth of: 30 feet Type of grout (check one):  Neat Cement  Bentonite  Mix  
 Casing length: 60.5 feet Casing diameter: 2 inches Type of casing: PVC  
 Screen length: 10 feet Screen diameter: 2 inches Type of screen: PVC  
 Screen slot size: 0.010 inches Setting depth: From 60.5 feet to 70.5 feet  
 Type of completion (check all applicable):  Gravel packed  Underreamed  Open hole  Natural Development  
 Other (describe): \_\_\_\_\_  
 Top of lap pipe or reduction in casing: NA feet  
*If telescoped or more than one screen, describe on next page*

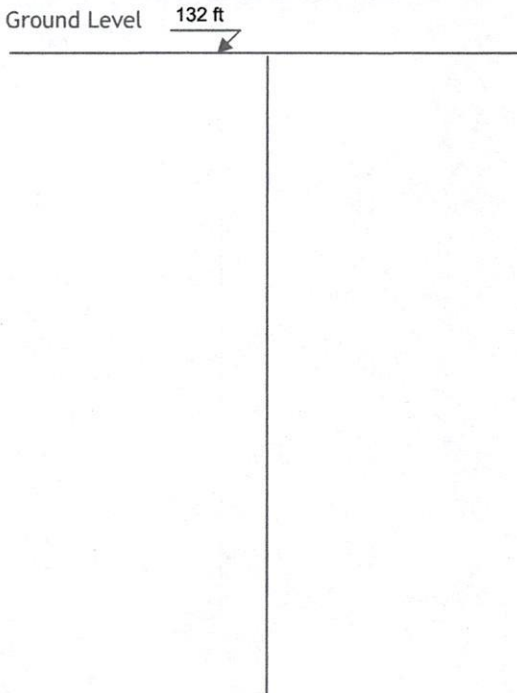
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County: Leflore, MS  
 Permit #: \_\_\_\_\_

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 Well #: 6180

*The sketch below only required for water wells*

*If well telescopes, show depths on sketch.*



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)<br>Ground level | To (depth) |
|---------------------------------------|------------------------------|------------|
| Description of direct-push            |                              |            |
| Pushed easily (likely mostly sand)    | 0                            | 60         |
| Pushed more difficult (sand/gravel?)  | 60                           | 72         |
|                                       |                              |            |
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Sketch the property layout and include the following:

Landowner Name: x

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.

Roland W Tollett 5/3/2019 **ROLAND TOLLETT** Digitally signed by ROLAND TOLLETT  
 Print Name of Responsible Licensee and License No. Date Signature of Licensee Date: 2019.06.05 16:12:12 -05'00'

G180

Driller: Roland W Tollett, USGS, 3095 W California Ave, Ruston, LA 71270 [318-245-8639] (MS LIC RMO-00009026)

Site number: OW-11

Drill date: 20190412 @0730

Plugged date: active monitoring well

Site type: USGS monitoring well

Well depth: 70.5 ft bls (MP=2.0)

EC-log depth none

Rig Type: Geoprobe 7822DT

Lat/Long 33.58043 -090.26837 +-4ft Sec Township Range: SW1/4,SE1/4,S23,T20N,R01W

Land surface elevation: 40.2 meters (132 feet; accuracy 1.6 ft) [data source: DEM]

Topo Map Name: Shellmound, MS

County/Parish: 083 Leflore County, MS (1:24,000)

HUC code: 080302020604 Outlet Tallahatchie River

MAPS site\_no for NWIS: 333450090160601

Land owner: x

\*\*\*\*\* USER NOTES \*\*\*\*\*

Drilled by Roland (USGS Ruston LA) and Wesley Bolton (USDA ARS Oxford MS).

Driller notes (ROP is rate of penetration; TOC is top of 2" PVC casing):

0-60 ft intervals pushed moderately easily; ROP was about 1 inch per 0.5 to 2.0 second.

60-72 ft intervals pushed more difficult; finally giving in to terminal depth around 72 ft bls.

No clay was seen on the wiper after pulling rods.

Well construction: This 2" PVC monitoring well is ~72.5 ft from bottom of point to TOC with a 10 ft screen; screened interval is 60.5-70.5 ft bls; MP is 2.0 above land surface with aluminum protective riser and 2.0 ft radius concrete slab; a 4" point was added to btm of casing; about 15 gallons of tap water were poured into PVC casing prior to pulling rods; this technique was used to balance and equalize pressure.

About 2 cups of bentonite granules were poured into the annular space of the borehole and likely bridged over around 30 ft below land surface (bls). Portland cement at a tap water ratio of 5-6 gals per 92-lb bag was used to seal the borehole from about 30 ft bls to land surface.

Water level:

4/29/19 @ 1645 = 29.84 - 1.0 - 2.0 = 26.84 (measured with an etape by rtollett USGS)

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USGS/USDA-ARS OW-11 (continued)

Figure 1. Location of monitoring well OW-11.



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G180

USGS/USDA-ARS OW-11 (continued)

New Site Sheet Form - MAPS

File Tables Search Network Help

### NEW SITE

**Site Record**

Agency Code: USGS: U.S. Geological Survey    Site Number: 333450090160601    Site Type Code: GW

Station Name: \_\_\_\_\_    Agency Use Code: \_\_\_\_\_

**Coordinate/Altitude Data**

Latitude: 333449.55    Longitude: 0901606.13    Coordinate Accuracy: H: Hndrh: secor    Coordinate Method: G: GPS

Coordinate Datum: NAD83: NA Datum of 1983    Latitude NAD83 in decimal degrees    Longitude NAD83 in decimal degrees

Altitude in ft: 132    Altitude Datum Code: NAVD88: V Datum of 1988    Altitude Method Code: N: DEM    Altitude Accuracy Value in ft: 1.6

**Surface Water Data**

Drainage Area in sq mi: \_\_\_\_\_    Basin Code: \_\_\_\_\_

Contributing Drainage Area in sq mi: \_\_\_\_\_

Hydrologic Unit Code: 080302020604: Outlet Tallahatchie Riv.

**Groundwater Data**

Aquifer Code: \_\_\_\_\_

National Aquifer Code: \_\_\_\_\_

Aquifer Type Code: \_\_\_\_\_

Well Depth in ft: \_\_\_\_\_

Hole Depth in ft: \_\_\_\_\_

Source of Depth: \_\_\_\_\_

**Data Collection and Dates**

Data Reliability Code: \_\_\_\_\_    Site Establishment Date: \_\_\_\_\_    First Construction Date: \_\_\_\_\_

**Spatial Data**

Land Net: S23 T20N R01W O    Topographic Code: \_\_\_\_\_

Map Name: SHELLMOUND, MS    Map Scale: 24000

**Administrative Data**

Country Code: US: United States

State Fips Code: 28: Mississippi

County Fips Code: 083: Leflore Cou.

Minor Civil Division: 91116: District 2

District Code: 28: MISSISSIPPI

Time Zone Code: CST: Central Standard

Daylight Savings Time Flag: Y: Yes

**Use Data**

Primary Use of Site: \_\_\_\_\_

Secondary Use of Site: \_\_\_\_\_

Tertiary Use of Site Code: \_\_\_\_\_

Primary Use of Water Code: \_\_\_\_\_

Secondary Use of Water Code: \_\_\_\_\_

Tertiary Use of Water Code: \_\_\_\_\_

National Water Use Code: \_\_\_\_\_

