

# STATE WELL REPORT

130

County: Leflore, MS  
 Permit #: \_\_\_\_\_  
 Driller: Roland W Tollett (RMO-00009026)  
 Date drilling completed: 04/03/2019

**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 #: G176  
 Aquifer: \_\_\_\_\_  
 E-Log #: \_\_\_\_\_

USGS site name: OW-09

*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>  <i>(Landowner if borehole is not for a water well)</i></p> <p>Owner Name: <u>Pollard, Margaret Frear Trust</u>  <i>(landowner)</i></p> <p>Mailing Address: <u>USGS (driller - rtollett@usgs.gov)</u>  <u>3095 W. California Ave</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"><u>Ruston</u></td> <td style="width: 33%;"><u>LA</u></td> <td style="width: 33%;"><u>71270</u></td> </tr> <tr> <td>City</td> <td>State</td> <td>Zip Code</td> </tr> </table> <p>Telephone No. (<u>318</u>) <u>251-9630 (245-8639 cell)</u></p>	<u>Ruston</u>	<u>LA</u>	<u>71270</u>	City	State	Zip Code	<p style="text-align: center;"><input checked="" type="checkbox"/> Well or <input type="checkbox"/> Borehole Location</p> <p>Latitude: <u>33.60593</u> Longitude: <u>-90.27068</u></p> <p>Method of Lat/Long (check one): Conventional Survey _____,          USGS quad _____, Hand-held GPS <input checked="" type="checkbox"/>, Survey-grade GPS _____</p> <p><u>NE</u> <input checked="" type="checkbox"/> <u>1/4</u> <u>NW</u> <input checked="" type="checkbox"/> <u>1/4</u>, Sec. <u>14</u> T <u>20N</u> R <u>01W</u></p> <p><u>0.10</u> Miles <u>West</u> of <u>Shellmound MS</u>  <i>(Distance) (Direction) (Nearest Town)</i></p>
<u>Ruston</u>	<u>LA</u>	<u>71270</u>					
City	State	Zip Code					

**Well / Borehole Data**

Date drilling started: 4/3/2019 Date drilling completed: 4/3/2019 Hole depth: 75 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: 27.99 feet  above or  below land surface Date measured: 4/29/2019 @ 1620  
*(check one)*

Method of measurement (check one)  Steel tape  Electric tape  Air line  Other (describe): \_\_\_\_\_

Well depth: 72.5 Well grouted to a depth of: 30 feet Type of grout (check one):  Neat Cement  Bentonite  Mix

Casing length: 62.5 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 62.5 feet to 72.5 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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*The sketch below only required for water wells*

*If well telescopes, show depths on sketch.*

Ground Level 136 ft

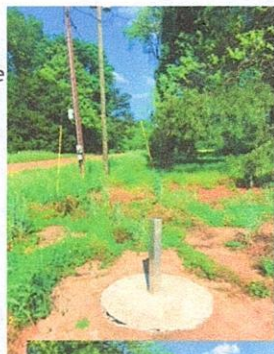
If more than one screen, show location of each on sketch

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

Description of Formations Encountered	From (depth) Ground level	To (depth)
Description of direct-push		
Pushed easily (likely mostly sand)	0	75

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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  
Print Name of Responsible Licensee and License No. Date

**ROLAND TOLLETT** Digitally signed by ROLAND TOLLETT  
Date: 2019.06.05 14:07:50 -05'00'  
Signature of Licensee

G176

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

Site number: OW-09

Drill date: 20190403 @1300

Plugged date: active monitoring well

Site type: USGS monitoring well

Well depth: 72.5 ft bls (MP=2.5)

EC-log depth none (nearest EC-log SM-01-BH about 800 ft south of this well)

Rig Type: Geoprobe 7822DT

Lat/Long 33.60593 -90.27068 (+-2ft) Sec Township Range: NE1/4,NW1/4,S14,T20N,R01W

Land surface elevation: 41.5 meters (136 feet; accuracy 1.6 ft) [data source: DEM]

Topo Map Name: Shellmound, MS

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

HUC code: 080302070802 Lake Henry

MAPS site\_no for NWIS: 333621090161401

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):

0-75 ft intervals pushed moderately easily; ROP was about 1 inch per 0.5 to 2.0 second

Some of the 5 ft rods pushed in under 20 seconds.

No clay was seen on the wiper after pulling rods

Once well was installed, the PVC casing could be rotated by hand which suggested little cave-in around screen; nice medium sand was observed in the rod threads of lower rods

Well construction: This 2" PVC monitoring well is ~75 ft from bottom of point to TOC with a 10 ft screen; screened interval is 62.5-72.5 ft bls; MP is 2.5 above land surface with aluminum protective riser and 2.0 ft radius concrete slab; about 3 inches of PVC casing was cut off TOC to remove the sharp female thread edge to protect e-tapes and 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:

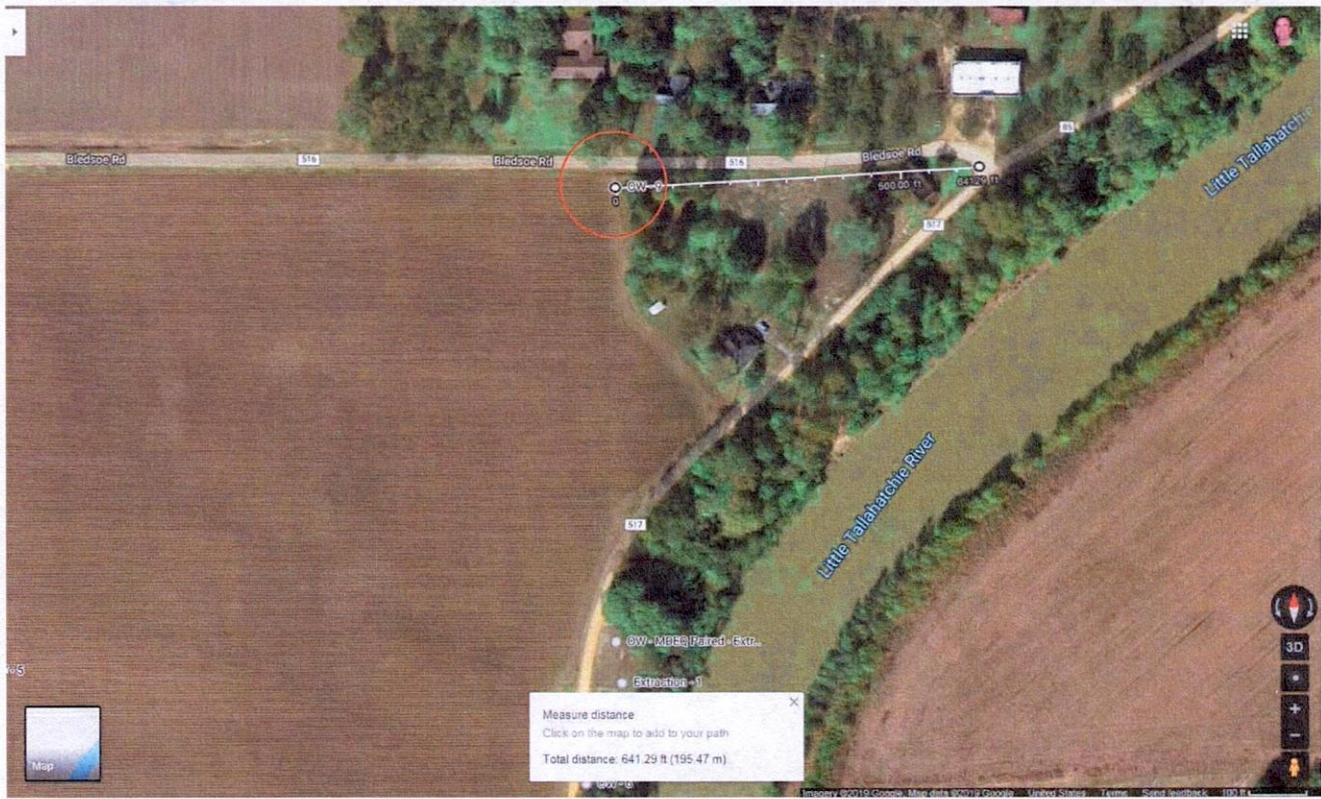
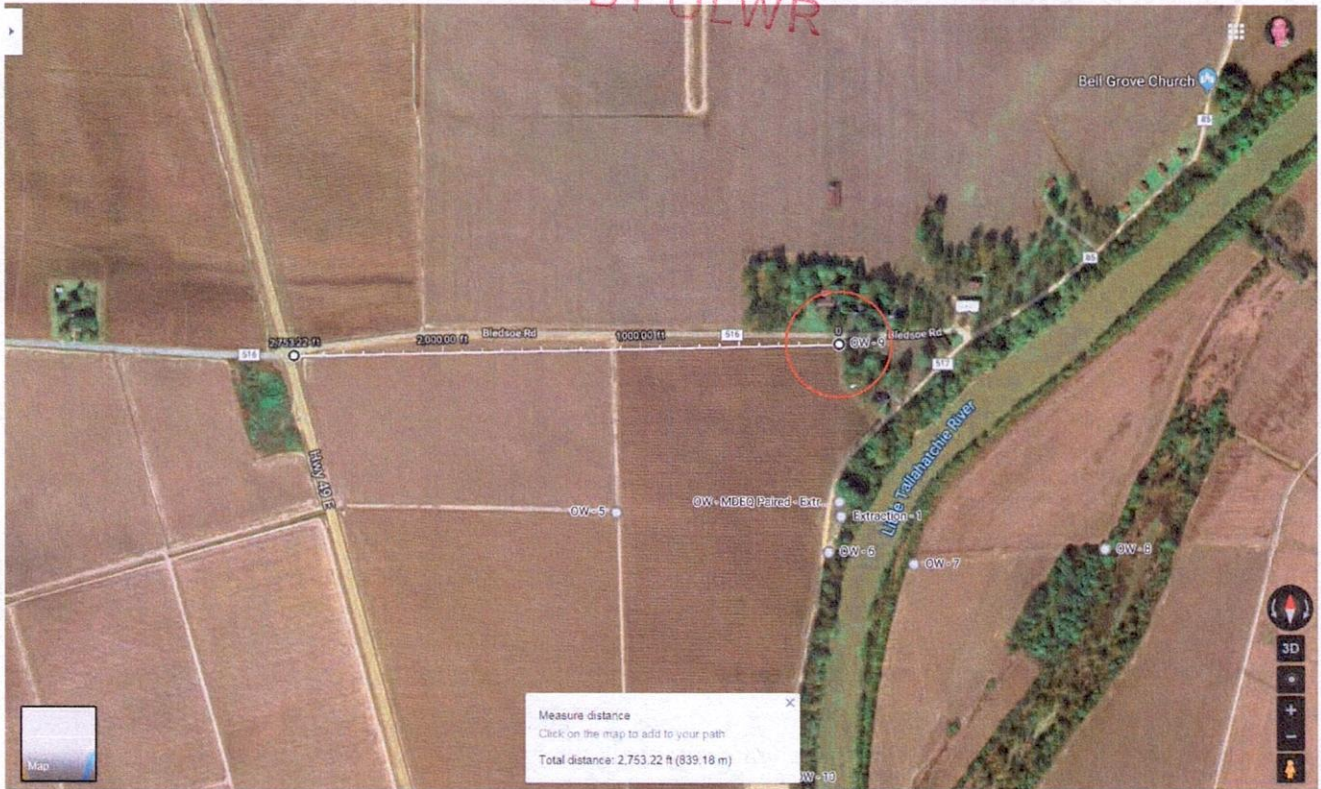
4/29/19 @ 1620 = 31.49 - 1.0 - 2.50 = 27.99 (measured with an etape by rtollett USGS)

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Figure 1. Location of monitoring well OW-09.



G176

USGS/USDA-ARS OW-09 (continued)

New Site Sheet Form - MAPS

File Tables Search Network Help

**NEW SITE**

- Site
- Datums
- Physical Characteristics
- Administrative
- Groundwater
- Other Data Available
- Miscellaneous Values
- Special Cases
- Spring

**Site Record**

Agency Code USGS: U.S. Geological Survey Site Number 333621090161401 Site Type Code GW

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

**Coordinate/Altitude Data**

Latitude 333621.35 Longitude 0901614.45 Coordinate Accuracy H Hndrth secur Coordinate Method G GPS

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

Altitude in ft 136 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 080302070802 Lake Henry

**Spatial Data**

Land Net S14 T20N R01W 0 Topographic Code \_\_\_\_\_

Map Name SHELLMOUND, MS Map Scale 24000

**Groundwater Data**

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

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

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

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

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

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

**Administrative Data**

Country Code US United States

State Fips Code 28 Mississippi

County Fips Code 083 Leflore Co.

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 \_\_\_\_\_

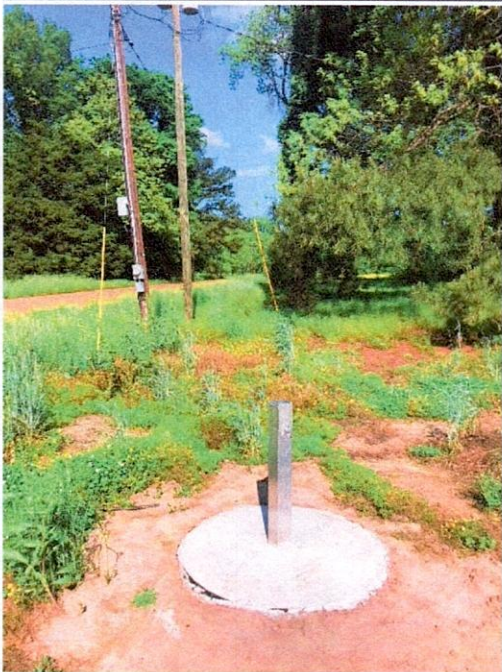
Secondary Use of Water Code \_\_\_\_\_

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

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

**Data Collection and Dates**

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



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