

STATE WELL REPORT

133

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 #: G177
 Aquifer: _____
 E-Log #: _____

USGS site name: OW-06

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;">Well Owner Information <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: none;"> <tr> <td style="border: none;"><u>Ruston</u></td> <td style="border: none;"><u>LA</u></td> <td style="border: none;"><u>71270</u></td> </tr> <tr> <td style="border: none; font-size: small;">City</td> <td style="border: none; font-size: small;">State</td> <td style="border: none; font-size: small;">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>33.60295</u> Longitude: <u>-90.27077</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>1/4</u> Miles <u>South</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: 25.92 feet above or below land surface Date measured: 4/3/2019 @ 1400
(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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Driller: Roland W Tollett, USGS, 3095 W California Ave, Ruston, LA 71270 [318-245-8639] (MS LIC RMO-00009026)
 Site number: OW-06
 Drill date: 20190403 @1030 Plugged date: active monitoring well
 Site type: USGS monitoring well Well depth: 72.5 ft bls (MP=2.5ft)
 EC-log depth none
[nearest EC-log: 083G0171 LEFLORE SM-01-BH (333613090161401) about 250 ft north of this well]
 Rig Type: Geoprobe 7822DT
 Lat/Long 33.60295 -90.27077 +-2ft Sec Township Range: NE1/4,NW1/4,S14,T20N,R01W
 Land surface elevation: 40.5 meters (133 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: 333611090161501
 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 very easily; ROP was about 1 inch per 0.25 to 1.0 second

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

Blueish gray 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.

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 1.5 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 levels:

4/3/19 @ 1400 = 29.42 - 1.0 - 2.50 = 25.92 (measured with an etape by Wesley Bolton of USDA ARS)

4/29/19 @ 1630 = 28.91 - 1.0 - 2.50 = 25.41 (measured with an etape by rtollett USGS)

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USGS/USDA-ARS OW-06 (continued)

Figure 1. Location of monitoring well OW-06.



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USGS/USDA-ARS OW-06 (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 333611090161501 Site Type Code GW

Station Name _____ Agency Use Code _____

Coordinate/Altitude Data

Latitude 333610.62 Longitude 0901614.77 Coordinate Accuracy H. Hndrth. 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 133 Altitude Datum Code NAVD83: 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 _____

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

Spatial Data

Land Net S14 T20N R01W 0

Map Name SHELLMOUND, MS

Topographic Code _____

Map Scale 24000

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 _____



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