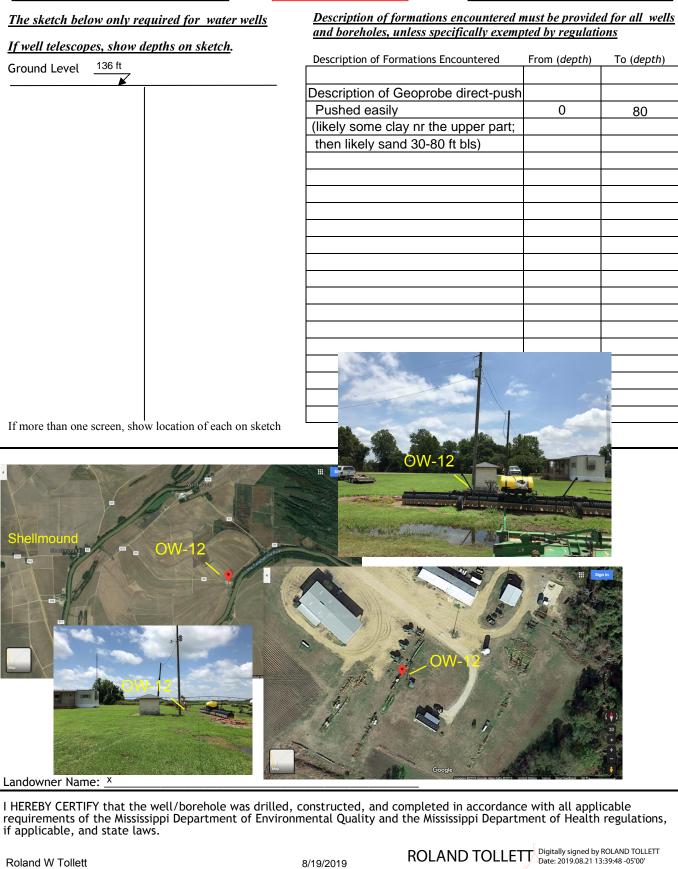
STATE WELL REPORT							
County: Leflore, MS Permit #: Driller: Roland W Tollett (RMO-00009026)	Part 1 Driller's Log Mississippi Department of Environmental Quality Office of Land and Water Resources P.O. Box 2309		For Office Use Only: Well #: H184				
Date drilling completed: 07/10/2019	Jackson, MS 39225-2309		E-Log #:	REC	EIVED		
USGS site name: OW-12	(60	601)961-5555 1)961-5228 (fax)		12-0	3-2019		
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.							
(Landowner if borehole is not for Owner Name:(landowner)	a water well)	Well or Borehole Location Latitude: 33.60052 Longitude: -090.23463		3			
Mailing Address: USGS (driller - rtollett@usgs.gov)		Method of Lat/Long (<i>check one</i>): Conventional Survey,					
3095 W. California Ave		USGS quad, Hand-held GPS_X, Survey-grade GPS					
Ruston LA	71270		<u>18</u>				
City State 318 251-9630 (24	Zip Code 5-8639 cell)	7.5 Miles North (Distance) (Direction)	f Greenwood MS (Nearest Town	n)			
	Well / B	orehole Data					
Date drilling started: 7/10/2019 Date drilling completed: 7/10/2019 Hole depth: 80 ft bls_Hole diameter: 3.25 in Location of the source of any surface water used for drilling: <u>none used</u> Method of dosing and volume of Chlorine used in drilling and development: <u>none used</u> Logs run (check <i>applicable</i>): No log run Electric Gamma Ray Density Sonic Neutron Other: Name of organization running log(s): <u>USGS</u> , 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 (<i>describe</i>)							
Purpose of Well (check all applicable): Home Industrial Public Supply Irrigation Fish Culture other							
If a flowing well, method of flow regulation: Valve Other (<i>describe</i>)							
Static Water Level:feet [above_orbelow] land surface Date measured:7/11/2019 @ 0900							
Method of measurement (check one) Steel tape 🖌 Electric tape Air line Other (describe):							
Well depth: 78 Well grouted to a depth of: 30 feet Type of grout (check one): Neat Cement Bentonite Mix							
Casing length: <u>68</u> feet Casing diameter: <u>2</u> inches Type of casing: <u>PVC</u>							
Screen length: <u>10</u> feet Screen diameter: <u>2</u> inches Type of screen: <u>PVC</u>							
Screen slot size: 0.010inches Setting depth: From68feet to78feet							
Type of completion (check all applicable): Gravel packed Underreamed Open hole 🖌 Natural Development							
Other (describe):							
Top of lap pipe or reduction in casing: <u>NA</u> feet							

County:	Leflore, MS
Permit #:	



USGS site name: OW-12

Well #: H184



Form: OLWR-SWR-1B (4/13)

Driller: Roland W Tollett, USGS, 3095 W California Ave, Ruston, LA 71270 [318-245-8639] (MS LIC RMO-00009026) [083H0184] LEFLORE OW-12 Site number: RECEIVED Drill date: 20190710 @1300 Plugged date: active monitoring well Well depth: 78 ft bls (MP=2.5 ft bls) Site type: USGS monitoring well EC-log depth none **By OLV Rig Type:** Geoprobe 7822DT Lat/Long 33.60052 -090.23463 +- 6ft Sec Township Range: SE1/4,NW1/4,S18,T20N,R01E Land surface elevation: 41.1 meters (135 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 USGS NWIS: 333602090140501 Land owner: х

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 1.0 second.

60-79 ft intervals pushed slightly more difficult; likely a coarser sandy zone.

No clay was seen on the wiper after pulling rods.

Well construction: This 2" PVC monitoring well is ~80.5 ft from bottom of point to TOC with a 10 ft screen; screened interval is 68-78 ft bls; MP is 2.5 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 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:

7/11/19 @ 0900 = 24.64 - 2.50 (MP) - 1.0 (tape offset) = 21.14 ft bls (measured with an etape by rtollett USGS)

*Note that all water level tapes used by the USGS are calibrated by the HIF.

083H0184

USGS/USDA-ARS OW-12 (continued)

Figure 1. Location of monitoring well OW-12 near Shellmound, MS.







USGS/USDA-ARS <u>OW-12</u> (continued) (near power pole)

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. Geologica Site Number 333602090140501 Site Type Code GW Station Name [MDEQ no] LEFLORE OW-12 Agency Use Code • Coordinate/Altitude Data •						
	Coordinate Attitude Data Latitude 0901404.67 Coordinate Accuracy H: Hndrth secor Coordinate Method G: GPS Coordinate Datum NAD83: NA Datum of 1983 • Latitude agrees Langitude NAD83 in decimal degrees Altitude in ft 135 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 Contributing Drainage Area in sq mi	Spatial Data Land Net S18 T20N R01E 0 Map Name GREENWOOD.MS	Topographic Code → Map Scale 24000				
	Hydrologic Unit Code 080302020604: Outlet Tallahatchie Riv ·	Administrative Data	Use Data				
	Groundwater Data Aquifer Code	State Fips Code 28: Mississippi •	Primary Use of Site Secondary Use of Site				
	National Aquifer Code -	County Fips Code 083: Leffore Cou +	Tertiary Use of Site Code				
	Aquifer Type Code	Minor Civil Division 91116: District 2 •	Primary Use of Water Code				
	Well Depth in ft	District Code 28: MISSISSIPF -	Secondary Use of Water Code •				
	Hole Depth in ft Source of Depth	Time Zone Code CST : Central Standard • Daylight Savings Time Flag Y:Yes •	Tertiary Use of Water Code National Water Use Code				
	Data Collection and Dates	First Occurrence Data	▼				



USGS/USDA-ARS <u>OW-12</u> (continued)





USGS/USDA-ARS <u>OW-12</u> (continued)



