

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

County: Leflore
Permit #: _____
Driller: Roland W Tollett (RMO-00009026)
Date drilling completed: 5/8/2019

For Office Use Only:

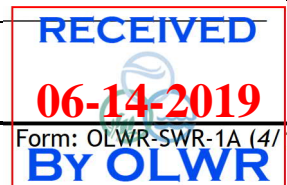
Well #: H182
Aquifer: _____
E-Log #: _____

USGS site name: YB-06b

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)	<input checked="" type="checkbox"/> Well or <input type="checkbox"/> Borehole Location
Owner Name: <u>(landowner - Lee Abraham)</u>	Latitude: <u>33.55417</u> Longitude: <u>-90.18128</u>
Mailing Address: <u>USGS (driller - rtollett@usgs.gov)</u> <u>3095 W. California Ave</u>	Method of Lat/Long (check one): Conventional Survey _____, USGS quad _____, Hand-held GPS <input checked="" type="checkbox"/> , Survey-grade GPS _____
<u>Ruston</u> <u>LA</u> <u>71270</u> City State Zip Code	<u>SE</u> <u>1/4</u> <u>NW</u> <u>1/4</u> , Sec <u>34</u> T <u>20N</u> R <u>01E</u>
Telephone No. (<u>318</u>) <u>251-9630</u> (245-8639 cell)	<u>1.5</u> Miles <u>N/NE</u> of <u>Greenwood, MS</u> (Distance) (Direction) (Nearest Town)

Well / Borehole Data	
Date drilling started: <u>5/8/2019</u> Date drilling completed: <u>5/8/2019</u> Hole depth: <u>50 ft bls</u> Hole diameter: <u>3.25 in</u>	
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 applicable): <input checked="" type="checkbox"/> No log run <input type="checkbox"/> Electric <input type="checkbox"/> Gamma Ray <input type="checkbox"/> Density <input type="checkbox"/> Sonic <input type="checkbox"/> Neutron <input type="checkbox"/> Other: _____	
Name of organization running log(s): <u>USGS, 3095 W. California Ave, Ruston, LA 71270 (318) 251-9630 x13</u>	
Purpose of borehole (check one): <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Geotechnical/Geological Investigation <input type="checkbox"/> Ground Source Heat Pump <input type="checkbox"/> Seismic Survey <input type="checkbox"/> Other (describe) _____	
If drilling is not related to water well construction, skip the remainder of this block	
Purpose of Well (check all applicable): <input type="checkbox"/> Home <input type="checkbox"/> Industrial <input type="checkbox"/> Public Supply <input type="checkbox"/> Irrigation <input type="checkbox"/> Fish Culture <input checked="" type="checkbox"/> other	
Other (describe): <u>monitoring well</u>	
If a flowing well, method of flow regulation: Valve _____ Other (describe) _____	
Static Water Level: <u>4.30</u> feet <input type="checkbox"/> above or <input checked="" type="checkbox"/> below land surface Date measured: <u>5/9/2019 @ 0810</u> (check one)	
Method of measurement (check one) <input type="checkbox"/> Steel tape <input checked="" type="checkbox"/> Electric tape <input type="checkbox"/> Air line <input type="checkbox"/> Other (describe): _____	
Well depth: <u>40.5</u> Well grouted to a depth of: <u>15</u> feet Type of grout (check one): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Mix	
Casing length: <u>30.5</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: <u>0.010</u> inches Setting depth: From <u>30.5</u> feet to <u>40.5</u> feet	
Type of completion (check all applicable): <input type="checkbox"/> Gravel packed <input type="checkbox"/> Underreamed <input type="checkbox"/> Open hole <input checked="" type="checkbox"/> Natural Development	
Other (describe): _____	
Top of lap pipe or reduction in casing: <u>NA</u> feet	
<i>If telescoped or more than one screen, describe on next page</i>	



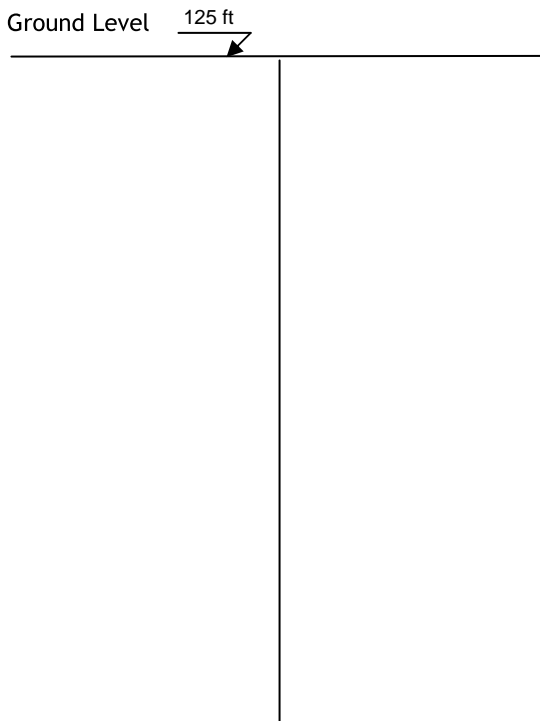
RECEIVED
06-14-2019
BY OLWR

USGS site name: YB-06b

County: Leflore
Permit #: _____

For Office Use Only:
Well #: **H182**

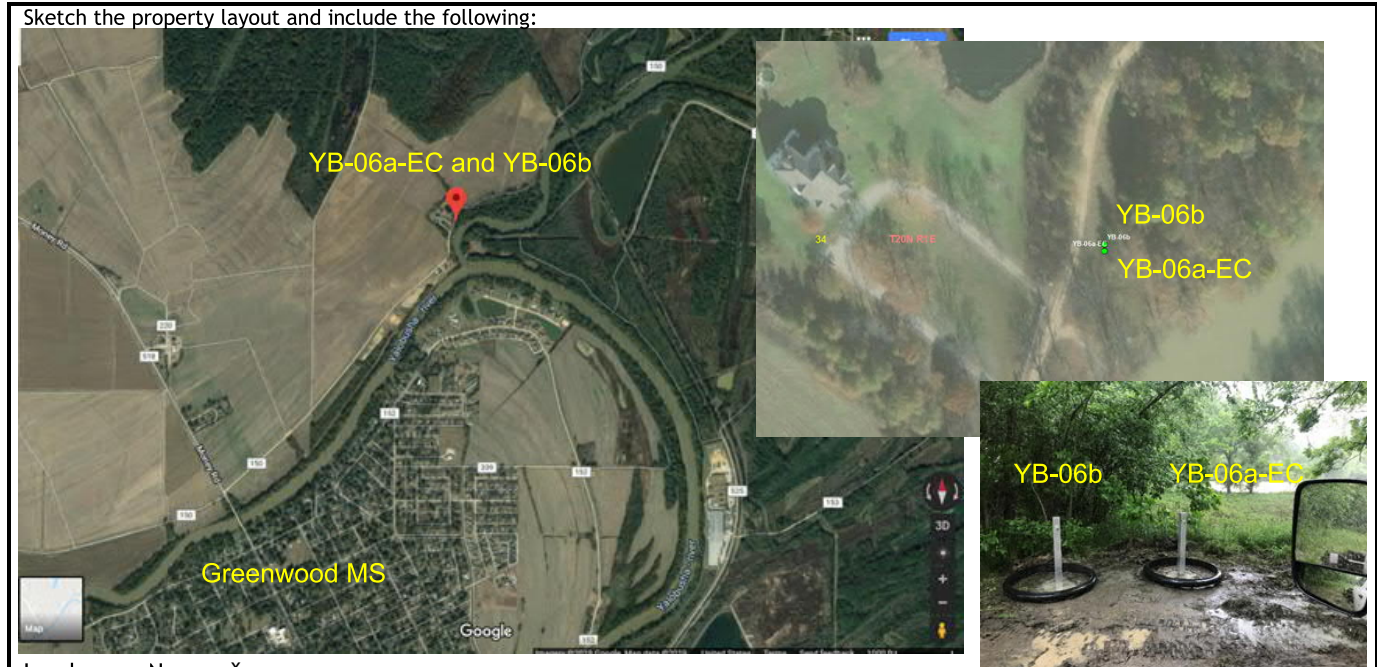
*The sketch below only required for water wells
If well telescopes, show depths on sketch.*



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 core		
silty brown clay	5	10
medium sand	20	25
medium well-sorted dark gray sand	30	33
medium coarse dark gray sand	45	50
2" monitoring well depth 40.5 ft bls with a 10 ft screen		

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



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 _____ 6/7/2019 _____
 Print Name of Responsible Licensee and License No. Date Signature of Licensee

ROLAND TOLLETT Digitally signed by ROLAND TOLLETT
Date: 2019.06.10 13:39:10 -05'00'

STATE WELL REPORT

Part 2

Pump Installer's Completion Report
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 #: **H182**

Aquifer: _____

County: Leflore

Permit #: _____

Driller: _____

Date completed: _____

Copy information from block on Part 1

This part of the report must be completed by a licensed water well contractor or a licensed pump installer. A copy of Part 1 of the report must be attached and both parts filed with the Department at the above address within 30 days of well completion.

Well Owner Information	Well Location
Owner Name: _____	Latitude: _____ Longitude: _____
Mailing Address: _____ _____	Method of Lat/Long (check one): Conventional Survey_____, USGS quad_____, Hand-held GPS_____, Survey-grade GPS_____ _____ 1/4 _____ 1/4, Sec _____ T _____ R _____ _____ Miles _____ of _____ (Distance) (Direction) (Nearest Town)
City _____ State _____ Zip Code _____	
Telephone No. (_____) _____	

Pump Type (check one)

Submersible Turbine Air Lift Centrifugal Flowing Well Jet Piston Rotary Other (describe): _____

Date Pump Installed: _____ Rated Pump Capacity: _____ Gallons Per Minute

Is This Pump (check one): New Repaired Replacement

Power Type (check one)

Electric Diesel Gasoline Natural Gas Tractor PTO Windmill Other (describe): _____

Horse Power Rating of Motor: _____ Setting Depth: _____ feet Number of Stages: _____

Pump Test Data for Non Flowing Well

Date Well Tested: _____ Duration of Pump Test (minimum 4 hours): _____ hours

Static Water Level (A): _____ Feet Below Land Surface Pumping Water Level (B): _____ Feet Below Land Surface

Drawdown [(B) - (A)]: _____ Feet Below Land Surface Test Pumping Rate: _____ Gallons Per Minute

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

Pump Test Data for Flowing Well

Measured shut in head: _____ feet.

Well yielded _____ GPM with a drawdown of _____ feet after _____ hours of pumping

Meter Installation

Meter Manufacturer: _____ Meter Serial Number: _____

Meter Model Number/Name: _____ Type of Meter: _____

Totalizer Register Unit and Multiplier Factor (AF x .001, gal x 1000, etc): _____

Installation Date: _____ Meter installed by: _____

Is This Meter (check one): New Repaired Replacement

Important: By submitting the above information you are certifying that this meter was installed to manufacturer standards. For agricultural wells, a list of approved meters is on the MDEQ website.

I HEREBY CERTIFY that the above statements are true to the best of my knowledge.

Print Name of Pump Installer and License No. (if applicable) _____ Date _____ Signature of Pump Installer _____



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

Site number: <MDEQ no> Leflore YB-06b

Drill date: 20190508

Plugged date: active monitoring well

Site type: USGS monitoring well

EC-HPT log depth: see Leflore YB-06a-EC

Monitoring well depth: 40 ft bls

Rig Type: Geoprobe 7822DT

Lat/Long 33.55417 -90.18128 (+- 9ft)

Sec Township Range: SE1/4,NW1/4,S34,T20N,R01W

Land surface elevation: 38.1 meters (125 feet; accuracy 1.6 ft) [data source: DEM]

Topo Map Name: Greenwood, MS

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

HUC code: 080302050905 Sharkey Bayou-Yalobusha

MAPS site_no for NWIS: 333315090105302

Land owner: Lee Abraham (nice lawyer in town – brought us his Honest Abe’s donuts)



***** **USER NOTES** *****

Drilled by Roland (USGS Ruston LA) and Courtney Killian (USGS Ruston LA).

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

YB-06b: Courtney Killian (USGS) and Roland W Tollett (USGS) cored and installed this monitoring well. Conditions were excellent. We also installed a second, deeper well (<MDEQ no> Leflore YB-06a-EC) on site for monitoring water-levels.

Coring notes (grain size to be determined by USDS ARS POC JR Rigby):

5-10 ft bls – silty brown clay

20-25 ft bls – medium sand

30-33 ft bls – medium, well-sorted gray sand

45-50 ft bls – medium coarse sand

Noticeable change at 46-60 ft bls (more diff to push rods). Likely a nice medium sand as the Geoprobe had a slight shake, tight feel during hammering/pushing. There appears to be clay lenses at 73 ft bls and 86-90 ft bls, but the full interval pushed similar (48-98 ft bls).

Well construction: This 2" PVC monitoring well is ~43.5 ft from bottom of point to TOC with a 10 ft screen; screened interval is ~30.5-40.5 ft bls; MP is 3.00 above land surface with aluminum protective riser and 2 ft radius concrete slab; a 4" point was added to btm of casing; about 10 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:

5/9/19 @ 0810 = 8.30 - 1.00 - 3.00 = 4.30 ft bls measured with e-tape by Roland W Tollett of the USGS

Figure 1. Location of monitoring wells YB-06b and YB-06a-EC near Greenwood, MS.





New Site Sheet Form - MAPS

File Tables Search Network Help

NEW SITE

Site Record
 Agency Code: USGS: U.S. Geologica Site Number: 333315090105302 Site Type Code: GW
 Station Name: <MDEQ no> Leflore YB-06b Agency Use Code: _____

Coordinate/Altitude Data
 Latitude: 333315.01 Longitude: 0901052.61 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: 125 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: 080302050905: Sharkey Bayou-Yalobi

Spatial Data
 Land Net: S34 T20N R01E O Topographic Code: _____
 Map Name: GREENWOOD, MS Map Scale: 24000

Groundwater Data
 Aquifer Code: _____
 National Aquifer Code: _____
 Aquifer Type Code: _____
 Well Depth in ft: 40.5
 Hole Depth in ft: _____
 Source of Depth: _____

Administrative Data
 Country Code: US: United Stat
 State Fips Code: 28: Mississippi
 County Fips Code: 083: Leflore Cot
 Minor Civil Division: 91116: District2
 District Code: 28: MISSISSIPP
 Time Zone Code: CST: Central Standar
 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: _____

