STATE WELL REPORT					
County: <u>Washington - MS</u> 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 Well #: F213 Aquifer:		
Date drilling completed: 08-07-2019		on, MS 39225-2309 601)961-5555	E-Log #:	RECEIVED	
USGS site name: BP-03b		1)961-5228 (fax)		12 03 2010	
State Law requires that this report Department at the above address w				12-03-2019 h the BY OLWR	
Well Owner Informat (Landowner if borehole is not for	a water well)	Well or Bor Latitude: <u>33.42061</u> Lon		4	
Owner Name: Bill Mayton (landown		Method of Lat/Long (check one	-		
Mailing Address: USGS (driller - rtol	lett@usgs.gov)				
3095 W. California Ave		USGS quad, Hand-held G			
Ruston LA City State	71270 Zip Code	NE ¼ SE ¼, Sec_			
Telephone No. (<u>318</u>) <u>251-9630 (24</u>	•	4.5 Miles East of (Direction)	Leland, MS (Nearest Tow	<u>(n)</u>	
	Well / B	orehole Data			
	vater used for drilling a n Electric Ga JSGS, 3095 W. C ater Well Geote ic Survey Other ated to water well c Home Industria n a 3.0 ft MP (protection) ation: Valve Electric depth of: 30 fe asing diameter: 2 Setting depth: e): Gravel packed	ng: <u>none used</u> nd development: <u>none used</u> mma Ray Density Sonic Ne alifornia Ave, Ruston, LA 712 chnical/Geological Investigation (describe) onstruction, skip the remainder (describe) onstruct	futron 0 ther: 70 (318) 251-9630 x Ground Source Hea of this block Fish Culture of this block Fish Culture of this block ed: 8/8/2019 be): Neat Cement Bentor asing: PVC screen: PVC 80:5 45	x13 x13 at Pump er hite Mix feet	
Top of lap pipe or reduction in casing: <u>NA</u> feet					
If telescoped or more than one screen, describe on next page					

USGS	site	name:	BP-03b
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County:	Washington - MS
Permit #:	

The sketch below only required for water wells



For Office Use Only:

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

Well #: **F213**

If well telescopes, show depths on sketch.			
Ground Level 116 ft	Description of Formations Encountered	From (<i>depth</i>) Ground level	To (depth
		Ground level	
	Geoprobe ECHPT log for nearby:		
	monitoring well BP-03a-EC		
	Core intervals		
	Clay with lenses of silt	10	15
	Med & fine sand w silt	20	25
	Med & fine sand w silt	30	35
	Med & fine sand w silt	40	<u> </u>
		10	-10
	See USDA ARS in Oxford MS		
A SECTION OF A SEC	for full core descriptions and		
	grain size analysis.		
B B B B B B B B B B B B B B B B B B B			
iketch the property layout and include the following:			
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andowner Name: <u>Bill Mayton</u>		F	
	Constructed, and completed in accordance Brought of the Mississippi Depart	the with all appliment of Health	regulations
And owner Name: Bill Mayton HEREBY CERTIFY that the well/borehole was drilled, or equirements of the Mississippi Department of Environment	nental Quality and the Mississippi Depart	te with all appliment of Health	regulation: by ROLAND

151F0213

Driller: <u>Roland</u>	W Tollett, USGS, 3095 W California Ave, Rustor	n, LA 71270 [318-245-8639] (MS LIC	<u>RMO-00009026)</u>
Site number:	<u>BP-03b</u>		
Drill date:	20190807	Plugged date: active monitoring w	ell
Site type:	USGS monitoring well		
EC-log depth:	see nearby BP-03a-EC for ECHPT log		
Rig Type:	Geoprobe 7822DT with EC-HPT probe		
Lat/Long:	<u>33.42061 -090.83574 +- 3ft</u>	Sec Township Range: <u>NE1/4,SE1/4</u>	<u>\$08,T18N,R06W</u>
Land surface elevation: 35.7 meters (117 feet) [data source: NED1]			
Topo Map Nam	ne: Holly Ridge, MS	County/Parish: 151 Washington Co	ounty, MS (1:24,000)
HUC code:	080302071305 Clark Bayou-Bogue	Associated well in USGS NWIS: 332	<u>514090500902</u>
Land owner:	Bill Mayton]	RECEIVED
			RECEIVED

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

Core Intervals: 10–15; 20–25; 30–35; 40–55. Grain-size analyses will be determined by USDA ARS in Oxford MS.

Hot, sunny conditions.

Well construction: This 2" PVC monitoring well is ~48.0 ft from bottom of point to TOC with a 10 ft screen; screened interval is ~35.0–45.0 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 5 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 20 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 25 ft bls to land surface.

Water level:

8/8/19 @ 1215 = 25.09 - 1.00 - 3.00 = 21.09 ft bls measured with e-tape by Roland W Tollett of the USGS

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

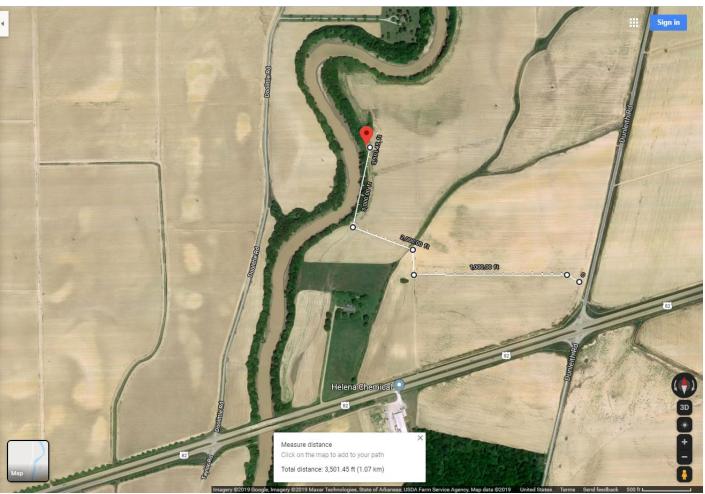
Note: Two monitoring wells are on-site: <u>BP-03b is the northmost well; BP-03a-EC is the southmost well.</u>

Notes from nearby BP-03a-EC: HPT log from BP-03a-EC showed clay unit near surface to about 30 ft bls. Nasty dark gray silty clayey soup on ECHPT probe after pulling rods. The bottom 50 feet of rods were clean indicating a higher sand/silt content. Note that the rods pushed very easily, indicating less medium to coarse sand than other wells, which is supported by EC log.

USGS Borehole BP-03b (continued) (Well access via on dirt farm roads; well is about ¾ mi west of Dunleith Rd.)







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USGS Borehole <u>BP-03b</u> (continued) [Note: BP-03b is the northmost well located under power lines; BP-03a-EC is the southmost well]







USGS Borehole <u>BP-03b</u> (continued)

[located between corn fields to the east and the edge of Bogue Phalia River to the west]



