STATE WELL REPORT

Grenada County Permit #: Theseus Taylor Driller: 08/09/19 Date drilling completed

Well Owner Information

(Landowner if borehole is not for a water well)

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
For Office Use Only Well #: H 166
Aquifer:
E-Log #:

Well or Borehole Location

Latitude: N33.803090 Longitude: W89.799251

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.

Owner Name: Grena	ada Manufactu	ring LLC	Latitude: 1400	Longitu	de:
Mailing Address: 63	5 Highway 332				onventional SurveyX
Grenada	MS	38901			T28N 22 N 5E
City Telephone No. (State	Zip Code	2.4 Mile (Distance)	s NNE of G	(Nearest Town)
Date drilling started:	of any surface water volume of Chlorine olicable): log rundrunning log(s): check one): Water W	illing completed er used for drill used in drilling Electric Gan	ing:and development ma RayDensity nical/Geological In	t: N/A Sonic Neutron	Other:
Purpose of Well (check Other (describe): Ext	k all applicable):	Home Industr	ial Public Supp		
If a flowing well, metion of the static Water Level:	hod of flow regulati	on: Valve	Other (describe)	8/9/19
Casing length: 40	Well grouted to a de	epth of: 4' ng diameter: 8 een diameter:	feet Type of g	rout (check one) Ne	stainless steel en: stainless steel stainless steel
Type of completion (of Other (describe): #0 se	theck all applicable) and installed (53-20) ft	✓ ravel packed bgs; #0 sand (20-	Underreamed	d Open hole seal (15-9) ft bgs; cem	ent-bentonite grout (9-4) ft bgs.
Top of lap pipe or red				cribe on next page	SEP 0 6 2019

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

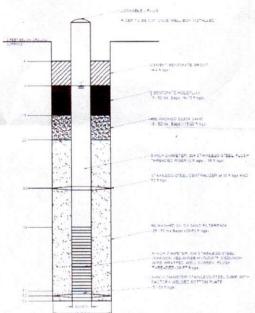
County:	Grenada
Permit #:	

For Office Use Only:

Well #: H 166

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)	To (depth)
	Ground level	
See attached log		
		1128.4
		- 1212
	L & Branch (2 15)	
	1 12 1 2 2	
		A 1,25
		2-0

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

Sketch the property layout and include the following:

1) the well location

2) any permanent structures on the property that may aid in locating the well

3) any roads, power lines, or other items that may aid in locating the property and the well

4) north arrow



SEP 0 6 2019 BY OLWR

Landowner Name: Grenada Manufacturing	g LL	cturing	Manufact	Grenada	Name.	andowner	1
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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.

Oliver Pederson UNR-00008699	7-4-19	Charles For	
Print Name of Responsible Licensee and License No.	Date	Signature of Licensee	

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



Location: EW-1

	Grena	da, Missi	ssippi	Project		Date Drilled	8/6/2019	See site map for boring location
Location Surface E	11.	181.84	46		ore Depth (ft) 53.7	Date Drilled	- 07072010	COMMENTS
Top of Ca					fell Depth (ft) 53.7	Depth to Water	(ft TOC) 9.16	JOHN LIVIO
Northing	156	5729.15	6		ameter (in) 8	Well Material	SS	
asting	245	8828.43	7	Screen	Length (ft) 13.0	Screen Materia	SS wire	
Orilling C	ompany	Casca	de		Drilling Rig			
Orilling M	fethod	Rotoso	onic		Log By	SB		
Sample I	Method	8 inch	core barre	el	Checked By	JP		
Depth (ft)	(mdd)	Well	Completion	Graphic		Materia	l Descriptio	on
0-								
			Bentonite	/////	fabric			oose, gray, dry; @ 0.4 feet filter
-			Be-		orange laminations at b	h little sand, trace ottom, moist	roots, tight, 1 to	n/ft2, slightly plastic, brown with
					(1-1.4) SILTY CLAY, with	and the same of th		A STATE OF THE STA
2-					and gray mottling and b	anding, 1.5ton/ft2	friable, moist	nt, dense, light brown with oran
					(2.7-2.9) No Pacovani			
					(2.7-2.9) No Recovery (2.9-7.5) CLAYEY SILT, t banding, thinly laminate	ight, soft, 0.5 tons ed, moist [(2.9-4 ft)	/ft2, brown with a recovere3d in (4	orange and gray mottling and I-14) ft run]
4-								
_								
			rout					
6			nite o					
			entoi					
-			nt-b					
			Cement-bentonite grout		(7.5-12.3) CLAYEY SILT	to SILTY CLAY, tig	ht, thinly lamina	ted, medium consistency, 1-1.5 banding, moist
8-					tons/itz, plastic, brown	with orange and g	ray mottling and	banding, moist
					2			RECEIVED
5-5								0.0 2010
10-								SEP UD ZUIS
								SEP 0 6 2019 BY OLWR
40			nite					
12-			Bentonite		(12.3-12.7) CI AVEY FIN	E SAND tight bro	wn. maist with t	race orange stains, soft, moist
			_ B		(12.7-12.8) CLAYEY SIL	T with some fine s		y plastic, orange brown, very
					thinly laminated, moist		The second secon	and the second s
-				mili	(12.8-13.3) FINE SAND	The second secon	h orange at botto	om, tight, friable, moist



Location:

EW-1

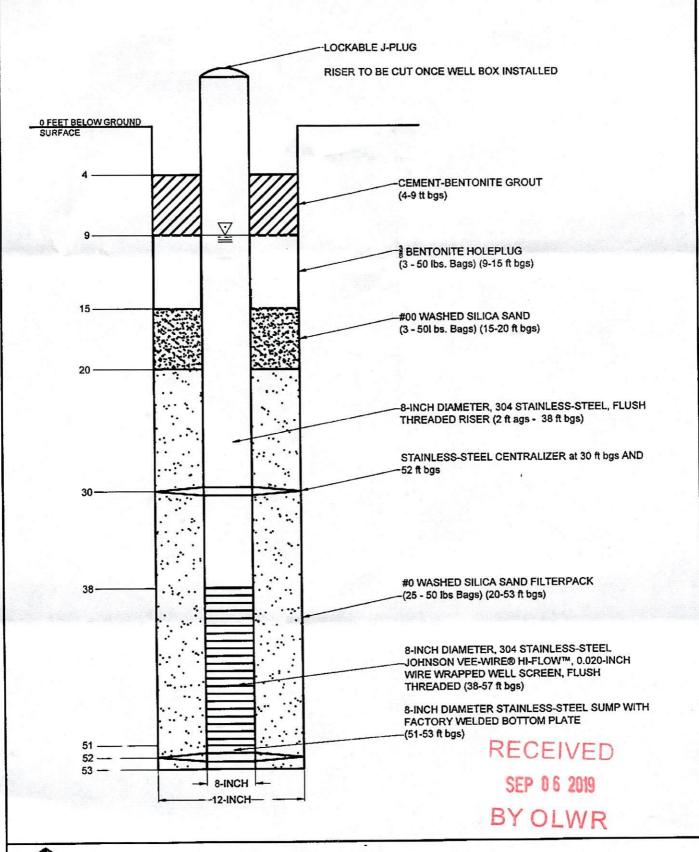
Depth (ft)	(mdd)	Well	Completion	ø.	Graphic Log	Material Description
	- 1/5			Bentonite	7777	(13.8-14.6) FINE SAND, light brown, loose, well sorted, saturated
-				Ber		(14.6-15.1) CLAYEY SAND, tight, friable, 1.8 ton/ft2, brown, wet (15.1-15.6) FINE SAND, trace slit, loose, brown, saturated
					111111	(15.6-15.8) SILTY CLAY, tight, dense, 1.2 ton/ft2, plastic, gray, moist
16-						(15.8-17.4) FINE SAND, well sorted, loose, gray with trace orange streaks, saturated
-				#00 Sand		
		6.4		00 S		(17.4-17.9) FINE SAND with little silt, loose, light brown, saturated
18-				#		(17.9-17.95) SILTY CLAY, tight, soft, plastic, brown, wet
					7781.93	(17.95-18.1) FINE SAND, well sorted, loose, brown, saturated (18.1-18.3) VERY FINE SAND with little sllt, orange with dark orange stains and brown,
-						loose, soft
						(18.3-18.6) FINE SAND, little silt, loose, saturated, light brown
20—						(18.6-21) FINE SAND, well sorted, loose, light brown, saturated
22						(21-22.3) MEDIUM TO FINE SAND, quartz, loose, brownish-gray, saturated
22-						(22.3-34) No Recovery
-						(22.3-34) No Recovery
24-				100		
_						
26-		***				
				#0 Sand		
28-						INCL VCD
_	I			100		The state of the s
-		3		1200	1	
30-						SEP 0 6 2019
30-						SEP 0 6 2019 BY OLWR
30-						
-						



Location:

EW-1

(ft)	(mdd)	Well	Completion		Graphic Log	Material Description
						(34-38.5) MEDIUM SAND, well sorted, trace fine sand, loose, brown, saturated
36-						
				Sand		
-				% 0#		
				#		
38-		4.29				
30		140 33		becom		
					70.0	(38.5-39.4) FINE SAND, orange-brown, loose, saturated
				No.	7////	(39.4-39.6) SILTY CLAY, tight, 1 ton/ft2, medium stiff, brown with orange banding, plastic, moist
40-		- 643		1	0.223	
						(39.6-40.1) INTERBEDDED FINE SAND WITH SILTY CLAY, silty clay is about 0.05 to 0.1 ft wide, and about 0.3 to 0.4 feet apart, silty clay is brown, with orange stains, tight, soft, 0.7 tons/ft2, plastic, moist, sand is fine to medium, loose, poorly sorted,
_			-			(40.1-41) FINE SAND, little silt, tight, friable, brown, saturated
						(41-41.9) FINE SAND, well sorted, brown with light gray, quartz, loose, saturated
42-		100				
42					4	(41.9-44) NO RECOVERY
				L. Sai		
-		1 1 1	-	17		(1915년 1일 (1914년 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14
					13,64	그 그 그 이 그는 지하는 그리를 하고 그 부모로 됐다고 했다.
44-				F 9 5 5		(44-46.2) FINE SAND, well sorted, loose, gray, saturated
						(**************************************
_						
_						
-						
46-						
-						(46.2-47.6) FINE SAND, trace slit, loose, gray with dark gray, saturated
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-						(46.2-47.6) FINE SAND, trace silt, loose, gray with dark gray, saturated
-						(46.2-47.6) FINE SAND, trace silt, loose, gray with dark gray, saturated (47.6-47.8) SILTY CLAY, tight, soft, 0 ton/ft2, plastic, dark brown, thinly laminated, wet
46-						(46.2-47.6) FINE SAND, trace siit, loose, gray with dark gray, saturated (47.6-47.8) SILTY CLAY, tight, soft, 0 ton/ft2, plastic, dark brown, thinly laminated, wet (47.8-48.2) FINE TO MEDIUM SAND, with some silt, very poorly sorted, loose, dark gray to olive drab, saturated
46-					77777	(46.2-47.6) FINE SAND, trace siit, loose, gray with dark gray, saturated (47.6-47.8) SILTY CLAY, tight, soft, 0 ton/ft2, plastic, dark brown, thinly laminated, wet (47.8-48.2) FINE TO MEDIUM SAND, with some silt, very poorly sorted, loose, dark gray to olive drab, saturated (48.2-48.3) SILTY CLAY, tight, very soft, plastic, thinly laminated, dark gray, saturated
46-						(46.2-47.6) FINE SAND, trace siit, loose, gray with dark gray, saturated (47.6-47.8) SILTY CLAY, tight, soft, 0 ton/ft2, plastic, dark brown, thinly laminated, wet (47.8-48.2) FINE TO MEDIUM SAND, with some silt, very poorly sorted, loose, dark gray to olive drab, saturated (48.2-48.3) SILTY CLAY, tight, very soft, plastic, thinly laminated, dark gray, saturated (48.3-48.7) COARSE SAND, quartz, subangular, loose, well sorted, saturated
46-						(46.2-47.6) FINE SAND, trace siit, loose, gray with dark gray, saturated (47.6-47.8) SILTY CLAY, tight, soft, 0 ton/ft2, plastic, dark brown, thinly laminated, wet (47.8-48.2) FINE TO MEDIUM SAND, with some silt, very poorly sorted, loose, dark gray to olive drab, saturated (48.2-48.3) SILTY CLAY, tight, very soft, plastic, thinly laminated, dark gray, saturated (48.3-48.7) COARSE SAND, quartz, subangular, loose, well sorted, saturated (48.7-49.2) SILTY CLAYEY SAND, loose, dark brown to gray, saturated, very poorly sorted
46-						(46.2-47.6) FINE SAND, trace siit, loose, gray with dark gray, saturated (47.6-47.8) SILTY CLAY, tight, soft, 0 ton/ft2, plastic, dark brown, thinly laminated, wet (47.8-48.2) FINE TO MEDIUM SAND, with some silt, very poorly sorted, loose, dark gray to olive drab, saturated (48.2-48.3) SILTY CLAY, tight, very soft, plastic, thinly laminated, dark gray, saturated (48.3-48.7) COARSE SAND, quartz, subangular, loose, well sorted, saturated (48.7-49.2) SILTY CLAYEY SAND, loose, dark brown to gray, saturated, very poorly sorted (49.2-49.6) FINE SAND, some silt, poorly sorted, loose, saturated, dark gray
46-						(45.2-47.6) FINE SAND, trace siit, loose, gray with dark gray, saturated (47.6-47.8) SILTY CLAY, tight, soft, 0 ton/ft2, plastic, dark brown, thinly laminated, wet (47.8-48.2) FINE TO MEDIUM SAND, with some silt, very poorly sorted, loose, dark gray to olive drab, saturated (48.2-48.3) SILTY CLAY, tight, very soft, plastic, thinly laminated, dark gray, saturated (48.3-48.7) COARSE SAND, quartz, subangular, loose, well sorted, saturated (48.7-49.2) SILTY CLAYEY SAND, loose, dark brown to gray, saturated, very poorly sorted (49.2-49.6) FINE SAND, some silt, poorly sorted, loose, saturated, dark gray (49.6-49.8) SILTY CLAY, tight, plastic, thinly laminated, soft, 0 ton/ft2, saturated
46-						(45.2-47.6) FINE SAND, trace siit, loose, gray with dark gray, saturated (47.6-47.8) SILTY CLAY, tight, soft, 0 ton/ft2, plastic, dark brown, thinly laminated, wet (47.8-48.2) FINE TO MEDIUM SAND, with some silt, very poorly sorted, loose, dark gray to olive drab, saturated (48.2-48.3) SILTY CLAY, tight, very soft, plastic, thinly laminated, dark gray, saturated (48.3-48.7) COARSE SAND, quartz, subangular, loose, well sorted, saturated (48.7-49.2) SILTY CLAYEY SAND, loose, dark brown to gray, saturated, very poorly sorted (49.2-49.6) FINE SAND, some silt, poorly sorted, loose, saturated, dark gray (49.6-49.8) SILTY CLAY, tight, plastic, thinly laminated, soft, 0 ton/ft2, saturated
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EW-1 WELL CONSTRUCTION LOG

