

" TEST WELL "

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)961-5210
(601)360-0535 (fax)

For Office Use Only:

Well #: H-92
Aquifer: COFF
E-Log #:

County: Benton
Permit #: GW-17164
Driller: Barry Crook
Date drilling completed: 9/19/2015

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)
Well or Borehole Location
Owner Name: TVA - Magnolia
Latitude: N34 50'10" Longitude: W89 12'0"
Mailing Address: 352 Highway 4W
Method of Lat/Long (check one): Conventional Survey,
USGS Quad Hand-held GPS X Survey-grade GPS
City Ashland State MS ZC 38603 NW 1/4 SE 1/4, Sec 9 T 35 R 1E
Telephone No. 662-224-6880
.5 Miles West of Ashland
(Direction) (Nearest Town)

Well / Borehole Data
Date drilling started: 7/22/15 Date drilling completed: 9/19/2015 Hole depth: 1848' Hole diameter: 12"
Location of the source of any surface water used for drilling: Existing Well
Method of dosing and volume of Chlorine used in drilling and development: 15 lb.
Logs run (circle all applicable): No log run Electric Gamma Ray Density Sonic Neutron Other:
Name of organization running log(s): Layne Christensen Company
Purpose of borehole (circle 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 (circle all applicable): Home Industrial Public Supply Irrigation Fish Culture
Other (describe): Power Plant
If a flowing well, method of flow regulation: Valve N/A Other (describe)
Static Water Level: 296 Feet [Above or Below] Land surface Date measured: 9/27/15
(circle one)
Method of measurement (circle one): Steel tape Electric tape Air line Other (describe):
Well depth: 1480 Well grouted to a depth of: N/A feet Type of grout (circle one): Neat Cement Bentonite Mix
Casing length: 1420 Feet Casing diameter: 6&4 inches Type of casing: Steel
Screen length: 60 Feet Screen diameter: 4 inches Type of screen: Stainless
Screen slot size: .020 Setting depth: From 1420 feet to 1480 feet
Type of completion (circle all applicable): Gravel packed Underreamed Open Hole Natural Development
Other (describe):
Top of lap pipe or reduction in casing: 600 feet
If telescoped or more than one screen, describe on next page

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

Test Well only - No Pump

They plan to drill the production well in the same hole - so no APB Farm req'd.

Production well GW-17254

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OCT 22 2015

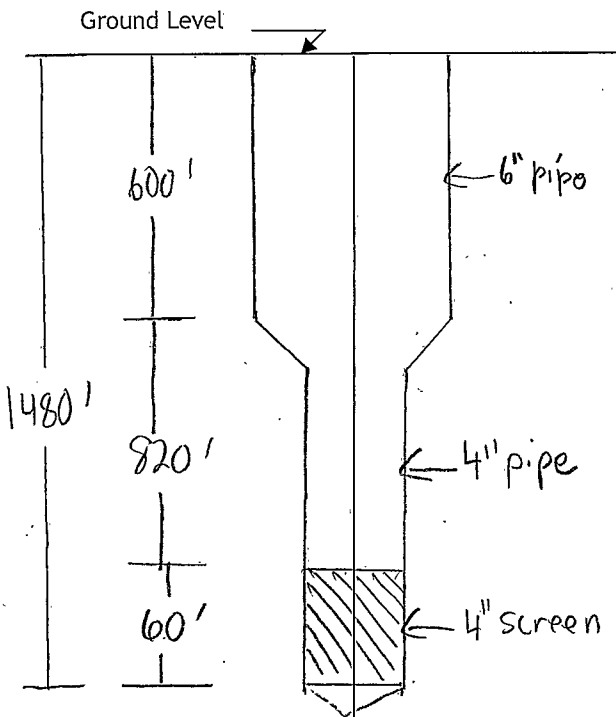
BY: OLWR

County: Benton
 Permit #: _____

For Office Use Only:
 Well #: _____

The sketch below only required for water wells

If well telescopes, show depths on sketch.



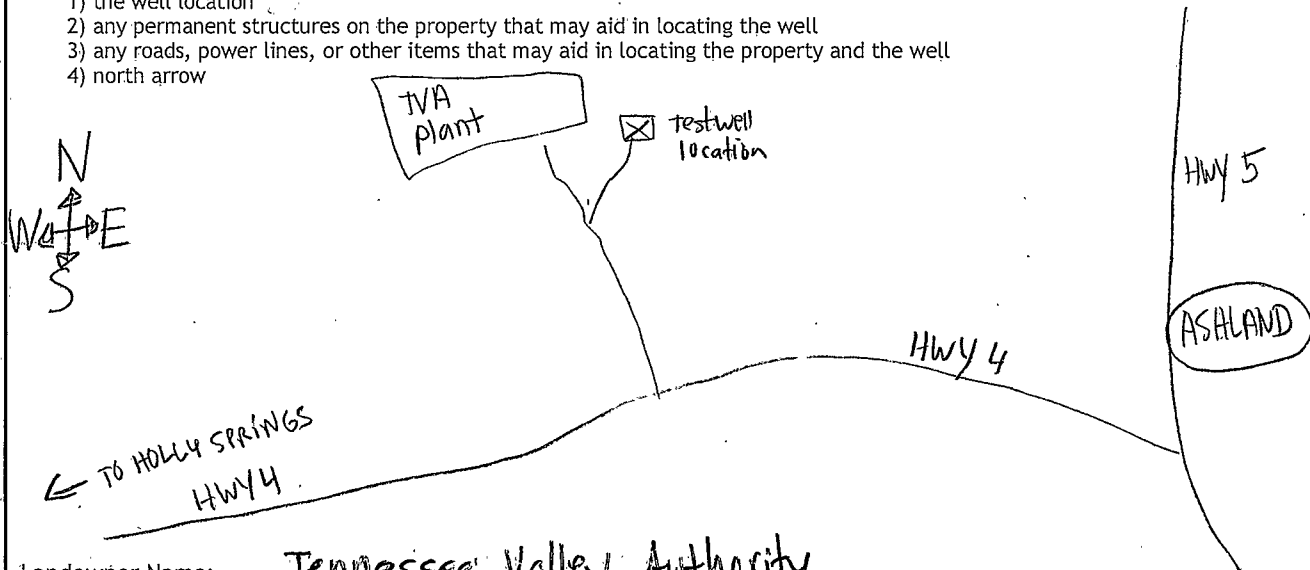
If more than one screen, show location of each on sketch

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	
Top Sand	0	4
Red Sand and Clay	4	24
Gravel and Sand	24	32
Clay and Sand Streaks	32	54
Gravel, Sand, and Clay	54	147
Clay and Sand	147	150
Hard Rock	150	151
Clay and Lignite	151	231
Sand, Clay, Shale, and Lignite Streak	231	594
Hard Clay, Shale, and Sand Streaks	594	651
Shale, Lignite, and Clay	651	685
Rock, Shale, and Lignite	685	874
Shale, Lignite, Clay, and Sand Streak	874	966
Shale, Clay, Lignite, and Sand Streak	966	1009
Hard Shale, Clay, and Lignite	1009	1236
Gray Clay, Shale, and Lignite	1236	1322
Rock	1322	1326
Shale, Clay, Lignite, and Rock Streak	1326	1390
Sand, Shale, and Lignite Streaks	1390	1650
Rock, Shale, Lignite, and Clay	1650	1848

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



Landowner Name: Tennessee Valley Authority

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.

Jace Rawls - 0-4688
 Print Name of Responsible Licensee and License No.

9/30/15
 Date

Jace A Rawls
 Signature of Licensee

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OCT 22 2015

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