

West # 1

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 #: J150

Aquifer: _____

E-Log #: _____

County: Wayne
 Permit #: _____
 Driller: John W Thompson
 Date drilling completed: 5-9-13

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) Owner Name: <u>Massbacher Energy</u> Mailing Address: <u>712 Main St ste 2200</u> <u>Houston TX 77002</u> City _____ State _____ Zip Code _____ Telephone No. (____) _____			Well or Borehole Location Latitude: <u>32°10'19.4"</u> Longitude: <u>88°54'38"</u> <u>31 43 01</u> <u>30 36</u> Method of Lat/Long (check one): Conventional Survey _____ USGS quad _____, Hand-held GPS <input checked="" type="checkbox"/> , Survey-grade GPS _____ <u>NW 1/4 SE 1/4, Sec 29 T 9 N R 6 W</u> <u>3</u> Miles <u>NE</u> of <u>Waynesboro</u> (Distance) (Direction) (Nearest Town)		
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Well / Borehole Data
 Date drilling started: 5-6-13 Date drilling completed: 5-9-13 Hole depth: 640 Hole diameter: 7"
 Location of the source of any surface water used for drilling: Local creek
 Method of dosing and volume of Chlorine used in drilling and development: add 13 gallons bleach in makeup water
 Logs run (circle all applicable): No log run Electric Gamma Ray Density Sonic Neutron Other: _____
 Name of organization running log(s): DEQ
 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): rig supply
 If a flowing well, method of flow regulation: Valve _____ Other (describe) _____
 Static Water Level: 157 feet [above or below] land surface Date measured: 5-9-13
 (circle one)
 Method of measurement (circle one): Steel tape Electric tape Air line Other (describe): _____
 Well depth: 620 Well grouted to a depth of: 20 feet Type of grout (circle one): Neat Cement Bentonite Mix
 Casing length: 520 feet Casing diameter: 4 inches Type of casing: PVC
 Screen length: 100 feet Screen diameter: 4 inches Type of screen: PVC slotted
 Screen slot size: .008 inches Setting depth: From 520 feet to 620 feet
 Type of completion (circle all applicable): Gravel packed Underreamed Open hole Natural Development
 Other (describe): _____
 Top of lap pipe or reduction in casing: _____ feet
If telescoped or more than one screen, describe on next page

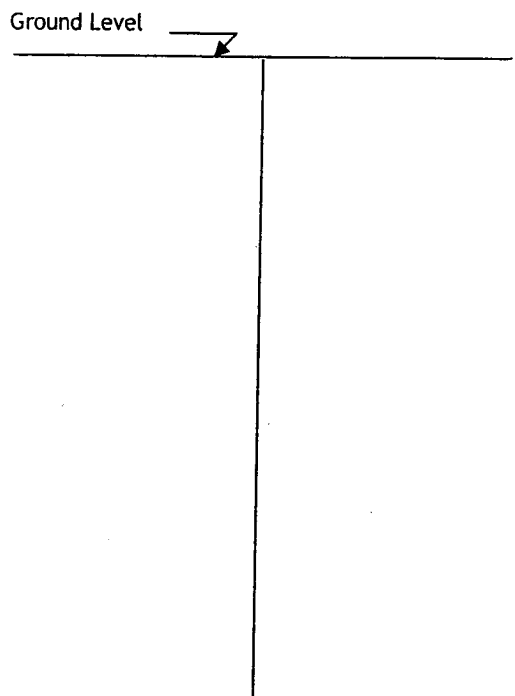
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JUN 04 2013
BY: OLWD
Form: OLWR-SWR-1A (4/13)

County: Wayne
Permit #: _____

For Office Use Only:
Well #: J150

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

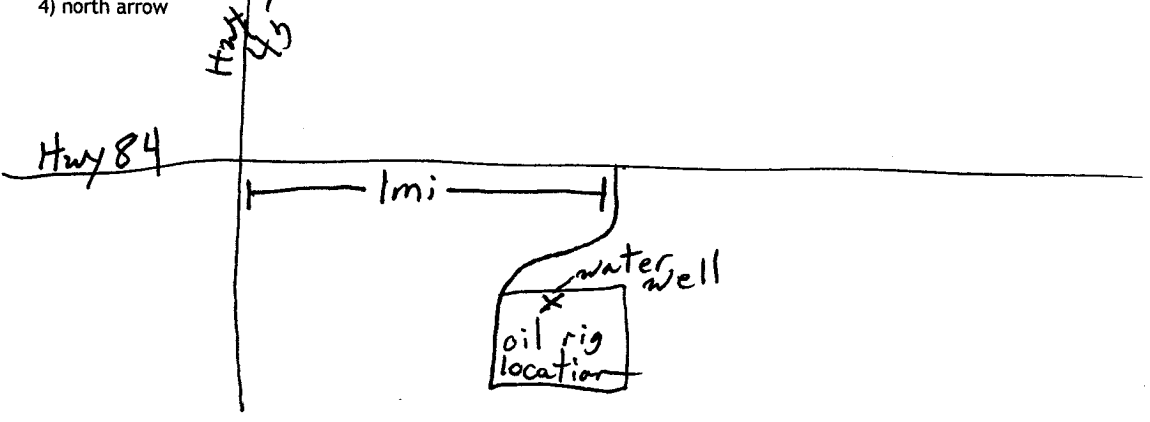


Description of Formations Encountered	From (depth)	To (depth)
sand	Ground level	40
clay & sand	40	85
Rock	85	87
Clay	87	110
Rock & clay	110	210
sand strip	210	214
clay & rock	214	540
clay & sand strips	540	620
clay	620	640

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



Landowner Name: Massbacher Energy

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.

John W Thompson 0-679
Print Name of Responsible Licensee and License No.

5-31-13
Date

John W Thompson
Signature of Licensee

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 #: J150

Aquifer: _____

County: Wayne
 Permit #: _____
 Driller: John W Thompson
 Date completed: 5-9-13

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: <u>Mossbacher Energy</u>	Latitude: <u>32°10'19.4"</u> Longitude: <u>88°54'38"</u>
Mailing Address: <u>712 Main st ste 2200</u>	Method of Lat/Long (check one): Conventional Survey _____
<u>Houston TX 77002</u>	USGS quad _____, Hand-held GPS <input checked="" type="checkbox"/> , Survey-grade GPS _____
City _____ State _____ Zip Code _____	<u>3</u> ¹ / ₄ _____ ¹ / ₄ , Sec <u>29</u> T <u>9N</u> R <u>6W</u>
Telephone No. (____) _____	<u>3</u> Miles <u>NE</u> of <u>Waynesboro</u>
	(Distance) (Direction) (Nearest Town)

Pump Type (circle one)

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

Date Pump Installed: 5-9-13 Rated Pump Capacity: 55 Gallons Per Minute

Is This Pump (circle one): New Repaired Replacement

Power Type (circle one)

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

Horse Power Rating of Motor: 7.5 Setting Depth: 240 feet Number of Stages: _____

Pump Test Data for Non Flowing Well

Date Well Tested: 5-9-13 Duration of Pump Test (minimum 4 hours): 4 hours

Static Water Level (A): 157 Feet Below Land Surface Pumping Water Level (B): 185 Feet Below Land Surface

Drawdown [(B) - (A)]: 28 Feet Below Land Surface Test Pumping Rate: 50 Gallons Per Minute

Method of measurement (circle 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 (circle one): New Repaired Replacement

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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.

John W Thompson 679 5-31-13 John W Thompson

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