

STATE WELL REPORT

117

County: Washington
 Permit #: 50487
 Driller: Charles. M. Nichols
 Date drilling completed: 8-12-19

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:

Well #: D 263
 Aquifer: _____
 E-Log #: _____

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 <small>(Landowner if borehole is not for a water well)</small>	Well or Borehole Location
Owner Name: <u>Patrick Smith</u>	Latitude: <u>33° 23' 26.52"</u> Longitude: <u>91° 0' 35.73"</u>
Mailing Address: <u>Smith Farms</u>	Method of Lat/Long (check one): Conventional Survey _____,
<u>1263 Netho Drive</u>	USGS quad _____, Hand-held GPS _____, Survey-grade GPS _____
<u>Greenville</u> MS <u>38703</u>	<u>NE</u> ¼ <u>SE</u> ¼, Sec <u>24</u> T <u>18N</u> R <u>8W</u>
City State Zip Code	_____ Miles _____ of _____
Telephone No. (____) _____	(Distance) (Direction) (Nearest Town)

Well / Borehole Data

Date drilling started: 8-12-19 Date drilling completed: 8-12-19 Hole depth: 93 Hole diameter: 24

Location of the source of any surface water used for drilling: City hydrant

Method of dosing and volume of Chlorine used in drilling and development: Hth

Logs run (check all applicable): Log run Electric Gamma Ray Density Sonic Neutron Other: _____

Name of organization running log(s): _____

Purpose of borehole (check 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 (check all applicable): Home Industrial Public Supply Irrigation Fish Culture

Other (describe): _____

If a flowing well, method of flow regulation: Valve _____ Other (describe) _____

Static Water Level: 16 feet above or below land surface Date measured: 8-12-19
(check one)

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

Well depth: 93 Well grouted to a depth of: 20 feet Type of grout (check one) Neat Cement Bentonite Mix

Casing length: 53 feet Casing diameter: 16 inches Type of casing: PVC

Screen length: 40 feet Screen diameter: 16 inches Type of screen: PVC

Screen slot size: .032 inches Setting depth: From 53 feet to 93 feet

Type of completion (check 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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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 #: D 263
 Aquifer: _____

County: Washington
 Permit #: 50487
 Driller: Charles M. Nichols
 Date completed: 8-12-19
 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>Patrick Smith</u>	Latitude: <u>33°23'26.52"</u> Longitude: <u>91°0'35.73"</u>
Mailing Address: <u>Smith Farms</u>	Method of Lat/Long (check one): Conventional Survey _____, USGS quad _____, Hand-held GPS _____, Survey-grade GPS _____
<u>1263 Netho Drive</u>	<u>NE</u> ¼ <u>SE</u> ¼, Sec <u>24</u> T <u>18N</u> R <u>8W</u>
<u>Greenville</u> <u>MS</u> <u>38703</u>	_____ 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: 8-13-19 Rated Pump Capacity: 1,200 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: 3/40 Setting Depth: 70 feet Number of Stages: 1

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.

Charles Z. Nichols 8221 2-12-20 _____
 Print Name of Pump Installer and License No. (if applicable) Date Signature of Pump Installer

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STATE OF MISSISSIPPI
Department of Environmental Quality
Office of Land and Water Resources
P. O. Box 2309
Jackson, Mississippi 39225

PERMIT

TO DIVERT OR WITHDRAW FOR BENEFICIAL USE THE PUBLIC WATERS

This permit is issued to the landowner named below in accordance with the provisions of the Mississippi Water Laws, Mississippi Code Sections 51-3-1, et seq. (1972, as amended), and the regulations and standards as promulgated thereunder. Whether or not specifically named in this permit or in the applications for this permit, anyone using water from the diversion/withdrawal point described below shall do so in compliance with the provisions of this permit. Neither this permit, nor any authority conferred hereby, may be sold, conveyed, encumbered, assigned, or otherwise aliened, for any period of time or under any conditions whatsoever. This permit may not be modified, transferred or revoked without prior action by the Permit Board. Any attempts to modify, transfer or revoke this permit, or to take any other action on this permit, shall be invalid and unenforceable and may result in immediate revocation or suspension of this permit. The holder of this permit shall at all times be responsible for adherence to the terms and conditions of this permit. No agreement between the permit holder and any other party shall affect the obligations and liabilities of the permit holder. Water use under this permit is allowed only when the streamflow, lake level elevation, or static groundwater level (whichever, if any, is applicable) is above the established minimum, pursuant to Mississippi Code Section 51-3-7. Authorization is hereby granted to divert/withdraw water for the beneficial use designated herein, and for no other purpose, subject to the following terms, conditions, and limitations:

Permit Number: MS-GW-50487

Landowner Name: SMITH FARMS

Landowner Address: 1263 NETHO DRIVE
GREENVILLE MS 38703

Source Of Water: MISSISSIPPI RIVER VALLEY ALLUVIAL AQUIFER

Beneficial Use: IRRIGATION

Diversion/Withdrawal Location: NE 1/4 of the SE 1/4 **Section:** 24 **Township:** 18N **Range:** 08W

County: WASHINGTON

Quad: GREENVILLE

Maximum Volume: 143 Acre-Feet/Year *equivalent to* .1276 Million Gallons/Day

Maximum Rate: 1500 Gallons/Minute

Applicant Name: SMITH FARMS

Applicant Address: 1263 NETHO DRIVE
GREENVILLE MS 38703

Date Permit Issued: 08/08/2018

Date Permit Expires: 08/08/2023

Date Permit Modified:

Date Permit Re-issued:

This permit shall be deemed null and void if construction has not begun within one (1) year of permit issue date

SPECIAL TERMS AND CONDITIONS: SEE ATTACHMENT 1, WHICH IS HEREBY DECLARED TO BE PART OF THIS PERMIT.

SPECIAL TERMS AND CONDITIONS 2:

Gary C. Rikard, Executive Director
Mississippi Department of Environmental Quality

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ATTACHMENT I

Special Terms and Conditions

Withdrawal from Mississippi River Valley Alluvial Aquifer

1. Coverage under this General Permit shall be valid for five (5) years from the issuance date of coverage specified on the Certificate of Coverage. The Permit Board reserves the right to rescind or cancel this General Permit if such action is necessary to effectively and efficiently manage, protect, and utilize the water resources of Mississippi.

2. The volume of water that may be withdrawn and applied per acre irrigated during any calendar year covered under this General Permit shall be dependent upon the crop being grown and shall be limited as follows:

- a. Up to 1.5 acre-feet per acre per year may be applied to row crops; and
- b. Up to 3.0 acre-feet per acre per year may be applied to rice.

Example 1: If a rotation of soybeans and rice is grown on a 100-acre field, the permitted volume of water would be 150 AF/yr for those years when beans are grown and 300 AF/yr for those years when rice is grown. (100 acres of soybeans x 1.5 AF/yr = 150 AF/yr; 100 acres of rice x 3.0 AF/yr = 300 AF/yr).

3. The volume of water that may be withdrawn and applied per acre for aquaculture in any calendar year covered under this General Permit shall be limited as follows:

- a. Up to 5.0 acre-feet per acre per year for all types of aquaculture (except fingerlings); and
- b. Up to 7.0 acre-feet per acre per year for raising fingerlings.

4. The volume of water that may be withdrawn and applied per acre for the enhancement of wildlife habitat in any calendar year covered under this General Permit shall be limited to 1.0 acre-feet per acre per year.

5. The permitted volume each year is cumulative depending on all applicable beneficial uses.

Example 2: If rice is grown on a 100-acre field and the same field is later flooded for wildlife enhancement, the permitted volume of water would be 400 AF/yr. (100 acres of rice x 3.0 AF/yr = 300 AF/yr; 100 acres of wildlife enhancement x 1.0 AF/yr = 100 AF/yr; 300 AF/yr + 100 AF/yr = 400 AF/yr, total permitted volume for the year.)

6. The permitted volume of water applied to an assigned acreage for a particular beneficial use or crop type cannot be exceeded whether or not multiple water sources are used. Conjunctive use of available water resources (involving both groundwater and surface water) is encouraged.

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Example 3: If a water well and a surface water intake are used conjunctively to flood a 100-acre rice field, the cumulative permitted volume of water cannot exceed 300 AF/yr, regardless of what proportion is pumped from each source. The same principle holds if multiple wells are used to cover an assigned acreage.

7. By no later than three (3) years from the issuance date of coverage under this General Permit, the holder must submit documentation to MDEQ, Office of Land and Water Resources (OLWR), on a form and in a manner prescribed by the OLWR that the required minimum level of MDEQ's *Acceptable Agricultural Water Efficiency Practices* are met. Failure to comply with the intent of these provisions will result in enforcement actions and/or revocation of the groundwater withdrawal Certificate of Coverage.
8. As per MDEQ regulation 11 Miss. Admin. Code Part 7, Chapter 1, Rule 1.7 (A), all permittees and licensees shall inform MDEQ of any address changes within fifteen (15) days of any change of address, and must readily accept mail sent to them from the Commission, MDEQ, or the Permit Board.

Acceptable Agricultural Water Efficiency Practices

Withdrawal from Mississippi River Valley Alluvial Aquifer

Crops:

The permit holder must implement

1. A sprinkler system, such as a center pivot, to supply irrigation water for the permitted acreage or
2. At least three of the following practices:
 - a. Precision land-forming and/or perimeter pads and pipes
 - b. Computerized hole selection, such as Pipe Planner, to supply irrigation water for the permitted acreage
 - c. Irrigation scheduling using either:
 - i. Soil moisture sensor data
 - ii. A water-level indicating device for rice fields
 - d. Surge valve
 - e. A tail-water recovery system to supply at least 25% of the irrigation water for the permitted acreage
 - f. Surface water from a permitted surface water intake to supply at least 75% of the irrigation water for the permitted acreage
 - g. Zero grade or modified zero grade
 - h. Alternate wetting and drying (rice)
 - i. Side inlet water distribution
 - j. A timer or automatic shut off that can remotely or automatically shut off wells
 - k. A fixed meter and report of annual metered water use to MDEQ by February 1st of each year

Fish Culture:

The permit holder must implement at least **one** of the following practices:

1. A water-level indicating device or pond drain design that allows for significant rainfall capture during the growing season
2. A fixed meter and report annual metered water use to MDEQ by February 1st of each year

Wildlife Management:

The permit holder must implement at least **one** of the following practices:

1. A water control structure, such as a slotted board riser, that captures rainfall and runoff to the greatest extent practical. It is recommended that the structure be closed by (a) November 1 or (b) as soon after harvest as possible, whichever is earlier
2. A fixed meter and report annual metered water use to MDEQ by February 1st of each year

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our map.



S Raceway Rd

E Reed Rd

patrick Smith

Sleedate Rd

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Sleedate Rd

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