

County: Washington  
 Permit #: 50488  
 Driller: Charles M. Nichols  
 Date drilling completed: 6-5-18

### State Well Report Part I - Driller's Log

Mississippi Department of Environmental Quality  
 Office of Land and Water Resources  
 P.O. Box 10631  
 Jackson, MS 39289-0631  
 (601)961-5210  
 (601)354-6938 (fax)

For Office Use Only:  
 Aquifer: \_\_\_\_\_  
 Well #: D 262  
 L. S. Elevation: \_\_\_\_\_  
 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.**

<p><b>Information on Well Owner</b> (Landowner if borehole is not for a water well)</p> <p>Owner Name: <u>Patrick Smith</u>          Mailing Address: <u>1263 Nctha Drive</u>  <u>Greenville MS 38703</u>          City State Zip Code          Telephone No. ( ) _____</p>	<p><b>Well or Borehole Location</b></p> <p>Latitude: <u>33.381943</u> Longitude: <u>-91.010833</u>          Method of Lat/Long (circle one): Conventional Survey, USGS quad, Hand-held GPS, Survey-grade GPS  <u>NW 1/4 NE 1/4 Sec 29 Twn 16N Rng 08W</u>          Distance Direction Nearest Town          Miles of _____</p>
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**Well / Borehole Data**

Date drilling started: 6-5-18 Date drilling completed: 6-5-18 Hole depth: 90 Hole diameter: 24

Location of the source of any surface water used for drilling: ditch  
 Method of dosing and volume of Chlorine used in drilling and development: H+H

Logs run (circle all applicable): ~~No 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 one): Home \_\_\_\_\_ Industrial \_\_\_\_\_ Public Supply \_\_\_\_\_ Irrigation  Fish Culture \_\_\_\_\_ Other: \_\_\_\_\_

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

Static Water Level: 86" feet above or below (circle one) land surface Date measured: 6-6-18

Method of Measurement (circle one) steel tape electric tape air line other: \_\_\_\_\_

Well depth: 90 Well grouted to a depth of 20 feet Type of grout (circle one): Neat Cement Bentonite Mix

Casing length: 50 feet Casing diameter: 16 inches Type of casing: PVC

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

Screen slot size: 0.35 inches Setting depth: From 50 feet to 90 feet


Type of completion (circle all applicable): Gravel packed Underreamed Telescoped 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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The sketch below only required for water wells

If well telescopes, show depths on sketch.

Ground Level. 

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)
Clay	Ground Level	40
Fine sand	40	48
Med sand	48	60
CS + Log	60	70
CS + P-gravel	70	84
Clay	84	90

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) a north arrow.

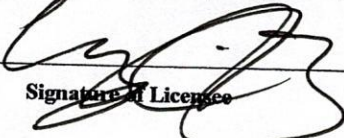
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Landowner Name: \_\_\_\_\_

Form: OLWR-SWR-1A

I 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.

Charles Z. Nichols    9221    12-11-19  
Print Name of Responsible Licensee and License No.                  Date



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 10631  
 Jackson, MS 39289-0631  
 (601)961-5210  
 (601)354-6938 (fax)

County: Washington  
 Permit #: 50488  
 Driller: Charles Z. Nichols  
 Date completed: 6-5-18  
*Copy information from block on Part 1*

**For Office Use Only:**

Aquifer: \_\_\_\_\_  
 Well #: D 262  
 Elevation: \_\_\_\_\_

*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.*

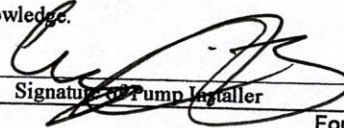
Well Owner Information	Well Location
Owner Name: <u>Patrick Smith</u>	Latitude: <u>33.381943</u> Longitude: <u>-91.010833</u>
Mailing Address: _____ _____ _____	Method of Lat/Long (check one): Conventional Survey _____ USGS quad _____, Hand-held GPS _____, Survey-grade GPS _____
City _____ State _____ Zip Code _____	<u>NW</u> ¼ <u>NE</u> ¼ Sec <u>29</u> T <u>18N</u> R <u>06W</u>
Telephone No. ( ) _____	Distance _____ Direction _____ Nearest Town _____ _____ Miles _____ of _____

Pump Type Circle one	Power Type Circle one
Air Lift                      Jet <u>Submersible</u>	Diesel Engine              Gasoline Engine              Natural Gas
Bucket                      Piston                      Turbine	<u>Electric Motor</u> Hand                      Tractor PTO
Centrifugal                  Rotary                      Flowing Well	Windmill                      Other (specify): _____
Other (specify): _____	Horse Power Rating of Motor: <u>40 hp</u>
Date Pump Installed: <u>6-6-18</u>	Setting Depth: <u>70</u> feet
Rated Pump Capacity: <u>1800</u> Gallons Per Minute	Number of Stages: <u>1</u>

Pump Test Data	Method of Measuring Water Level Circle one
Date Well Tested: _____	Air Line              Electric Measuring Line <u>RECEIVED</u> <span style="color: red; font-weight: bold;">JUL 15 2020</span> Steel Tape
Static Water Level (A): _____ Feet Below Land Surface	Other (specify): _____
Pumping Water Level (B): _____ Feet Below Land Surface	For flowing well, measured shut in head: _____ feet
Drawdown [(B) - (A)]: _____ Feet Below Land Surface	Well yielded _____ GPM with a drawdown of _____ _____ feet after _____ hours of pumping
Test Pumping Rate: _____ Gallons Per Minute	
Duration of Pump Test (minimum 4 hours): _____ hours	

I HEREBY CERTIFY that the above statements are true to the best of my knowledge.

Charles Z. Nichols 8221  
 Print Name of Pump Installer and License No. (if applicable)

  
 Signature of Pump Installer

Form: OLWR-SWR-1B

# 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-50488

**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:** NW 1/4 of the NE 1/4      **Section:** 29      **Township:** 18N      **Range:** 08W

**County:** WASHINGTON

**Quad:** GREENVILLE

**Maximum Volume:** 158 Acre-Foot/Year      *equivalent to* .141 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.

*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 1<sup>st</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> of each year

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# Untitled Map

Write a description for your map.

- Legend**
-  John Donahue
  -  Priddy Airport

 Patrick Smith gw-50488

E Reed Rd

S Raceway Rd

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2000 ft