

1257

109

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)961-5555
 (601)961-5228 (fax)

For Office Use Only:

Well #: A 98
 Aquifer: _____
 E-Log #: _____

County: Yazoo
 Permit #: _____
 Driller: John W. Thayer
 Date drilling completed: 3-2-21

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: <u>Phillips Bros. Farms</u>	Latitude: <u>32° 59' 27.73"</u> Longitude: <u>90° 22' 45.45"</u>
Mailing Address: <u>4024 Macey Sunk rd</u> <u>Yazoo City MS 39194</u>	Method of Lat/Long (check one): Conventional Survey _____ USGS quad _____, Hand-held GPS _____, Survey-grade GPS _____
City _____ State _____ Zip Code _____	<u>SW</u> ¼ <u>NW</u> ¼, Sec <u>11</u> T <u>13 N</u> R <u>2 W</u>
Telephone No. (____) _____	<u>8</u> Miles <u>N</u> of <u>Yazoo City</u> (Distance) (Direction) (Nearest Town)

Well / Borehole Data

Date drilling started: 1-25-21 Date drilling completed: 3-2-21 Hole depth: 1100 Hole diameter: 11"

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: _____

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

Name of organization running log(s): Teaco

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): hatchery

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

Static Water Level: 52 feet above or below land surface Date measured: 3-2-21
(check one)

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

Well depth: 890 Well grouted to a depth of: 200 feet Type of grout (check one): Neat Cement Bentonite Mix

Casing length: 830 feet Casing diameter: 6 inches Type of casing: Steel

Screen length: 60 feet Screen diameter: 6 inches Type of screen: 4x6 munipac

Screen slot size: .016 inches Setting depth: From 830 feet to 890 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 #: A 98

Aquifer: _____

County: Yazoo
 Permit #: _____
 Driller: John W. Thompson
 Date completed: 3-2-21
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>Phillips Bros. Farms</u>	Latitude: <u>32°59'27.73"</u> Longitude: <u>90°22'45.45"</u>
Mailing Address: <u>4024 Money Sunk rd</u> <u>Yazoo City MS 39194</u>	Method of Lat/Long (check one): Conventional Survey _____, USGS quad _____, Hand-held GPS _____, Survey-grade GPS _____
City _____ State _____ Zip Code _____	<u>SW</u> ¼ <u>NW</u> ¼, Sec <u>11</u> T <u>13N</u> R <u>2W</u>
Telephone No. (____) _____	<u>8</u> Miles <u>N</u> of <u>Yazoo City</u> (Distance) (Direction) (Nearest Town)

Pump Type (check one)

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

Date Pump Installed: 3-2-21 Rated Pump Capacity: 255 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: 15 Setting Depth: 168 feet Number of Stages: 5

Pump Test Data for Non Flowing Well

Date Well Tested: 3-2-21 Duration of Pump Test (minimum 4 hours): 4 hours

Static Water Level (A): 52 Feet Below Land Surface Pumping Water Level (B): 110 Feet Below Land Surface

Drawdown [(B) - (A)]: 58 Feet Below Land Surface Test Pumping Rate: 260 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.

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

John W. Thompson 0-679 _____
 Print Name of Pump Installer and License No. (if applicable) Date Signature of Pump Installer

Google Maps 32°59'27.7"N 90°22'45.5"W

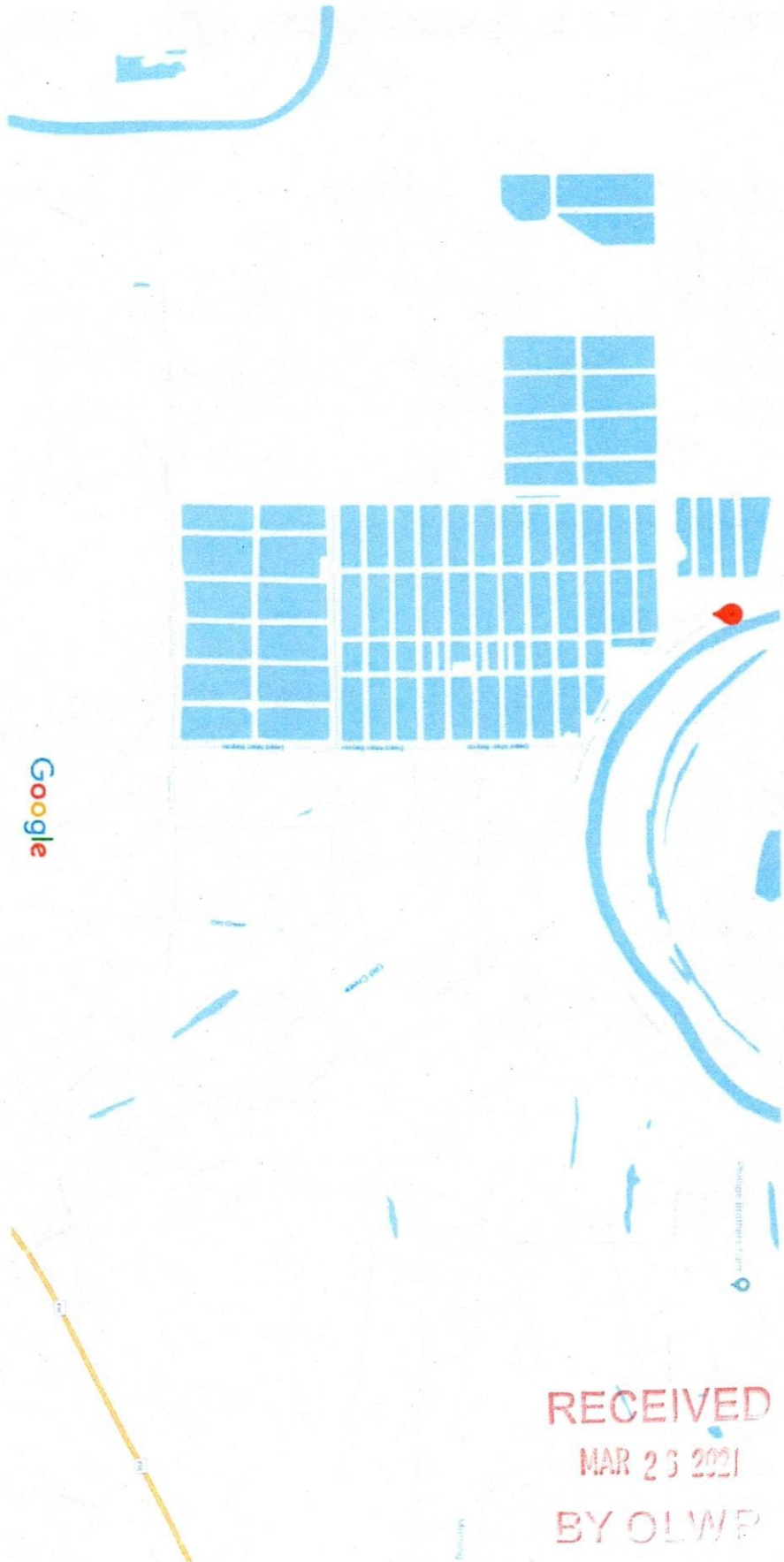


Imagery ©2021 Google, Imagery ©2021 Landsat / Copernicus, Maxar Technologies, State of Arkansas, USDA Farm Service Agency, Map data ©2021 1000 ft

[https://www.google.com/maps/place/32°59'27.7"N+90°22'45.5"W/@32.9771472,-90.3702931,4460m/data=!3m1!1e3!4m5!3m4!1s0x0:0x018m213d32.991036114d-90.3792917](https://www.google.com/maps/place/32°59'27.7)

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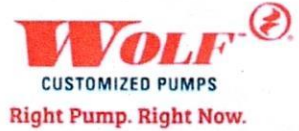
Google Maps 32°59'27.7"N 90°22'45.5"W



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Pump Data Sheet - Wolf Pumps

Company:
Name:
Date: 02/01/2021



Pump:

Size: 5HH7V (stages: 5)
Type: MultiStage
Synch Speed: 3600 rpm
Dia: 4.125 in
Imp. Material: STAINLESS
Impeller: 5HH7V

Dimensions:
Suction: —
Discharge: —
Vertical Turbine:
Eye Area: 7.16 in²
Bowl Size: 5.25 in
Max Lateral: 0.125 in
Thrust K Factor: 2.5 lb/ft

Fluid:

Name: Water
SG: 1
Density: 62.4 lb/ft³
Viscosity: 1.1 cP
Temperature: 60 °F

Vapor Pressure: 0.256 psi a
Atm Pressure: 14.7 psi a
Margin Ratio: 1

Search Criteria:

Flow: 250 US gpm
Head: 165 ft

Near Miss: —
Static Head: 0 ft

Pump Limits:

Temperature: 150 °F
Wkg Pressure: 533 psi g

Sphere Size: —
Power: 60 hp

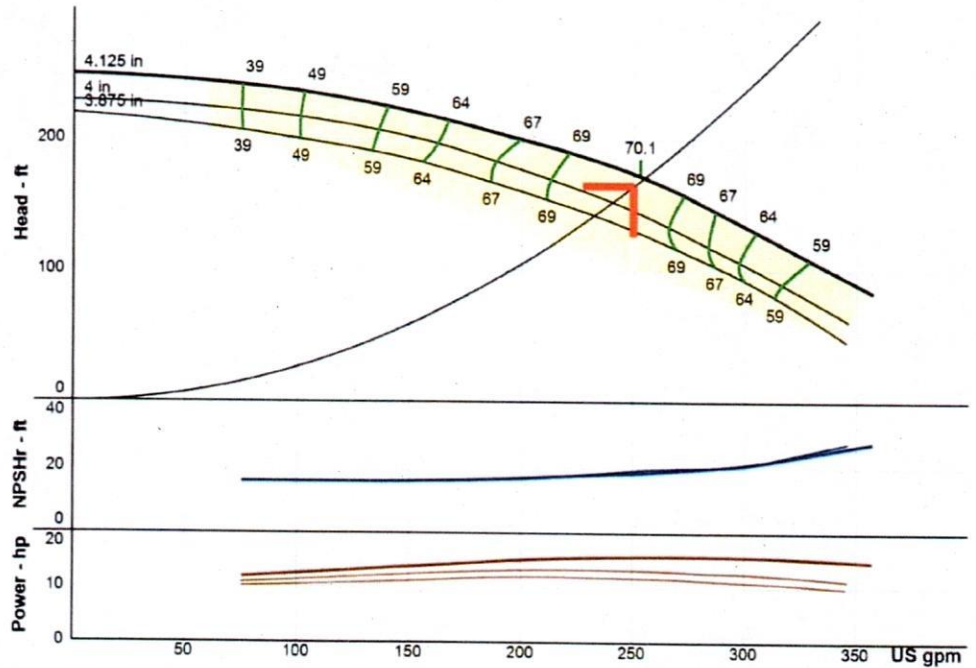
Motor:

Consult Wolf Pumps to select a motor for this pump.

Pump Selection Warnings:

None

— Duty Point —	
Flow:	255 US gpm
Head:	171 ft
Eff:	70%
Power:	15.7 hp
NPSHr:	18.6 ft
Speed:	3424 rpm
— Design Curve —	
Shutoff Head:	250 ft
Shutoff dP:	108 psi
Min Flow:	— US gpm
BEP:	70.1% @ 253 US gpm
NOL Power:	15.8 hp @ 272 US gpm
— Max Curve —	
Max Power:	15.8 hp @ 272 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
300	3424	134	64.8	15.7	21.1
250	3424	174	70	15.7	18.5
200	3424	200	67	15.1	16.8
150	3424	221	60.8	13.7	15.9
100	3424	237	47.9	12.5	15.8

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