

1223

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)

County: Winston
Permit #: GW-17373
Driller: John W Thompson
Date drilling completed: 1-18-19

For Office Use Only:
Well #: K37
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 (Landowner if borehole is not, for a water well)		Well or Borehole Location	
Owner Name: <u>Town of Noxapater</u>		Latitude: <u>33° 02' 46.53"</u> Longitude: <u>89° 3' 44.57"</u>	
Mailing Address: <u>P.O. Box 266</u> <u>Noxapater, MS 39346</u>		Method of Lat/Long (check one): Conventional Survey _____	
City _____ State _____ Zip Code _____		USGS quad _____, Hand-held GPS _____, Survey-grade GPS _____	
Telephone No. (____) _____		_____ 1/4 _____ 1/4, Sec <u>28</u> T <u>14 N</u> R <u>12 E</u>	
		<u>4</u> Miles <u>N</u> of <u>Noxapater</u>	
		(Distance) (Direction) (Nearest Town)	

Well / Borehole Data

Date drilling started: 12-21-19 Date drilling completed: 1-18-19 Hole depth: 492 Hole diameter: 17 3/4

Location of the source of any surface water used for drilling: Hydrant

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): Municipal

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

Static Water Level: 100 feet above or below land surface Date measured: 1-18-19

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

Well depth: 425 Well grouted to a depth of: 395 feet Type of grout (check one) Neat Cement Bentonite Mix

Casing length: 395 feet Casing diameter: 12 inches Type of casing: Steele

Screen length: 30 feet Screen diameter: 10 inches Type of screen: 8x10 manpac

Screen slot size: .020 inches Setting depth: From 395 feet to 395-425 feet

Type of completion (check all applicable) gravel packed Underreamed Open hole Natural Development

Other (describe): _____

Top of lap pipe or reduction in casing: 330 feet

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If telescoped or more than one screen, describe on next page

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 Permit #: GW-17373

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For Office Use Only:
 Well #: K37

The sketch below only required for water wells

If well telescopes, show depths on sketch.

Ground Level →

drawing
attached

Description of formations encountered must be provided for all wells and boreholes, unless specifically exempted by regulations

Description of Formations Encountered	From (depth) Ground level	To (depth)
sandy clay		90
fine sand & shale	90	140
blue clay	140	160
blue clay & shale	160	240
sand & shale	240	260
blue clay	260	300
fine sand	300	330
blue clay & silt	330	390
coarse sand	390	430
fine sand	430	443
blue clay	443	447

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: Town of Noxapater

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.

3-7-19
 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 #: K37
Aquifer: _____

County: Winston
Permit #: MS-GW-17373
Driller: John W Thompson
Date completed: 8-1-19
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>Town of Noxapater</u>	Latitude: <u>33° 02' 46.55"</u>	Longitude: <u>89° 03' 44.57"</u>	Method of Lat/Long (check one): Conventional Survey _____, USGS quad _____, Hand-held GPS _____, Survey-grade GPS _____		
Mailing Address: <u>PO Box 266</u> <u>Noxapater MS 39346</u>	City _____ State _____ Zip Code _____		_____ 1/4 _____ 1/4, Sec. <u>28</u> T. <u>14N</u> R. <u>12E</u>		
Telephone No. (____) _____	_____ Miles <u>N</u> of <u>Noxapater</u>		(Distance) (Direction) (Nearest Town)		

Pump Type (check one)
Submersible Turbine Air Lift Centrifugal Flowing Well Jet Piston Rotary Other (describe): _____
Date Pump Installed: 7-12-19 Rated Pump Capacity: 300 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: 50 Setting Depth: 310 feet Number of Stages: 5

Pump Test Data for Non Flowing Well
Date Well Tested: 7-12-19 Duration of Pump Test (minimum 4 hours): 4 hours
Static Water Level (A): 100 Feet Below Land Surface Pumping Water Level (B): 226 Feet Below Land Surface
Drawdown [(B) - (A)]: 126 Feet Below Land Surface Test Pumping Rate: 300 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.
John W Thompson 0-679 9-4-19 John W Thompson
Print Name of Pump Installer and License No. (if applicable) Date Signature of Pump Installer

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Winston Co.



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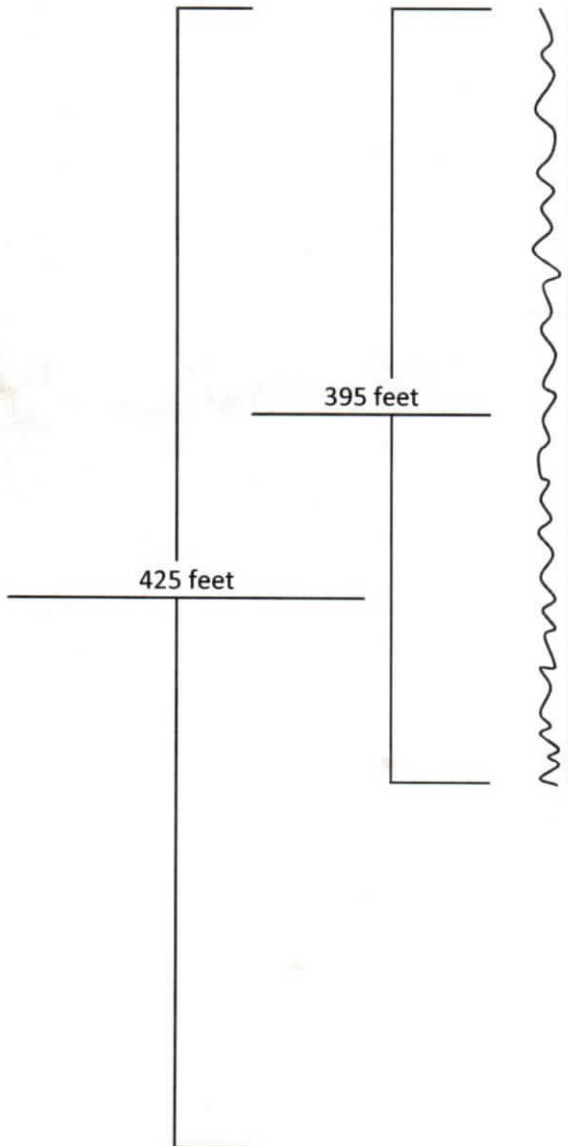
"Our Most Important Asset Wears a Hardhat"

5410 Highway 11 North * Ellisville, MS 39459 * 601-425-0970

Water Well Dimensions

Well Name: 300 GPM Deep Well #6

Owner: Town of Noxapeter Winston County, MS

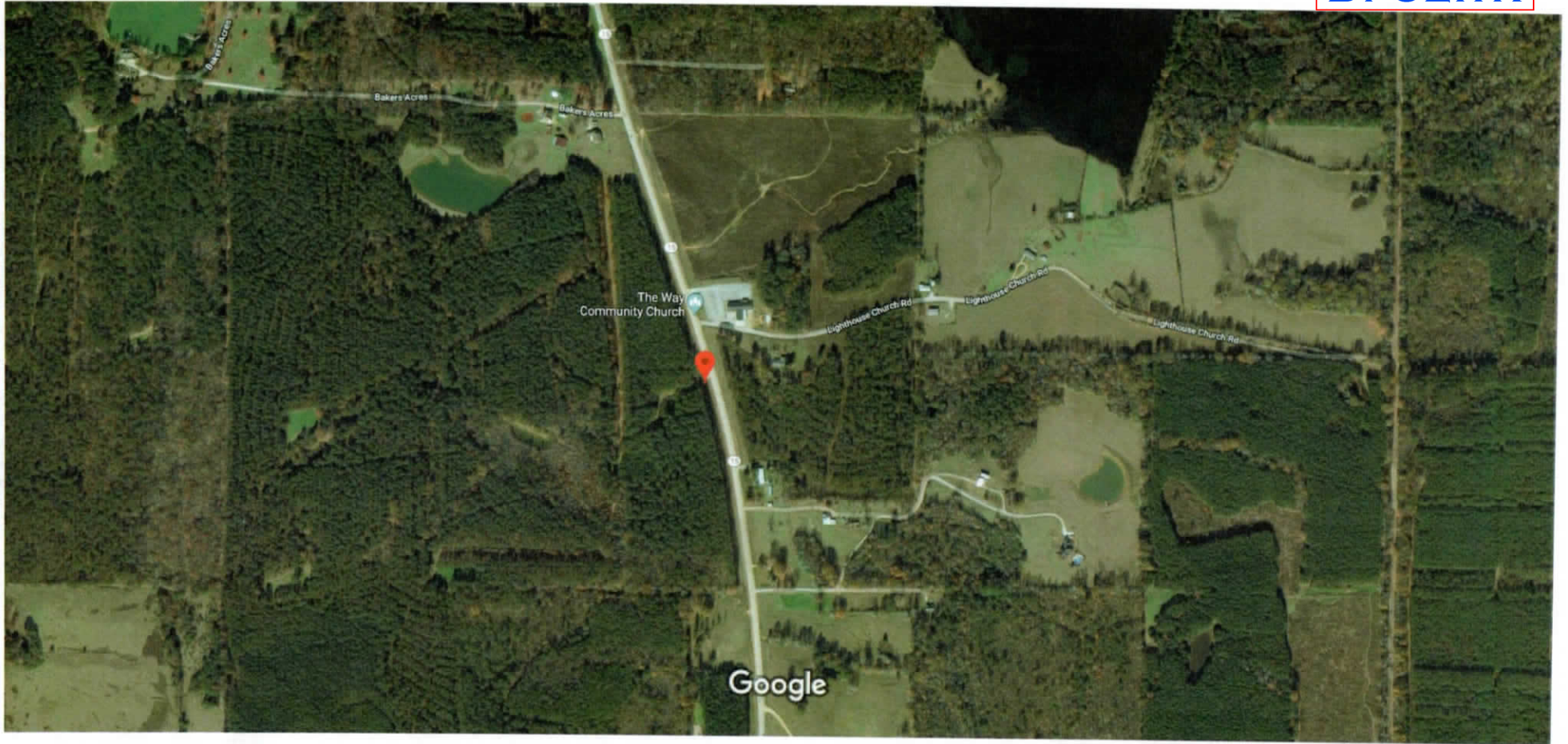


Casing 12" API-5L grade b
Coating None
Length 395 feet
Cement Haliburton Method

Lap pipe 8" Stainless Steel
Coating None
Length 60 feet

Screen ~~6x2 Munda Pac~~ *8x10 SCREEN*
Length 30 feet
Slot 0.020 inches

Bottom Assembly Backwash valve & stinger



Imagery ©2018 Google, Map data ©2018 Google 500 ft



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Google Maps 33°02'46.5"N 89°03'44.6"W





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As Built For:

Town of Noxapater, Mississippi
Winston County, Mississippi
300 GPM Well #6



Engineer: Chyi-Hong Lin, P.E.
 Engineering Firm: Calvert-Spradling Engineers
 Date of Completion: July 25, 2019

WELL DATA

Test Hole Depth	440 feet	ELog	Yes	Surface Casing Size	None
Surface Casing Length	N/A	Casing Size	12 inches i.d.	Casing Length	395 feet
Casing Material	API-5L grade B	Casing Coating	Yes	Coating Thickness	8-12 mils
Cement	Yes	Method	Haliburton	Lap Pipe Size	8 inches i.d.
Lap Pipe Length	60 feet	Lap Pipe Material	Stainless Steel	Lap Pipe Coating	None
Coating Thickness	N/A	Screen Size	6"X8"	Screen Length	30 feet
Screen Material	Stainless Steel	Screen Type	Muni Pack	Bottom of Screen Depth	425 feet
Gravel Pack	Yes	Amount of Gravel	39.25 cu. ft.	Static Water Level	100 feet

PUMP DATA

Pump Make	Goulds	Pump Model	7CSLC	Pump Stages	5 stages
TDH	396.84 ft.	Pump Rating	549 feet	Capacity	300 gpm
Column Pipe Size	6 inches	Column Pipe Length	310 feet	Column Pipe Material	Stainless Steel
Column Pipe Coating	None	Coating Thickness	N/A	Lubrication Type	None
Oil Tube Size	None	Oil Tube Length	None	Oil Tube Material	N/A
Oil Tube Coating	N/A	Coating Thickness	N/A	Line Shaft Size	None
Line Shaft Length	None	Line Shaft Material	None		

ELECTRICAL DATA

Control Panel MFG	CSI	Mount Type	Floor	Enclosure Type	NEMA 3R
Starter Type	Solid State	Starter MFG	Altistart	Starter Size	48
Voltage	480 volts	Motor HP	50 horsepower	Phase	3 phase
RPM	3600	Cycle	60 hertz	Motor MFG	Hitachi
Motor Efficiency	Premium				



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PUMPING TEST

Date 7/12/2019 Formation Wilcox County Winston
 Well Observed New Well #6 Owner Town of Noxapater
 Well Pumped New Well #6 Average Discharge 300 GPM By 6" x 4"
 Static Water Level 100.3" Pump On 7/12/19 @ 5:00a.m. Pump Off 7/12/19 @ 9:00a.m.

Time	T (Mins.)	T (Mins.)	Tape Held	Wetted	Water Level		P.S.I.	IN	GPM	
5:00					115.8				300	
5:01					172				300	
5:02					183.8				300	
5:03					187.5				300	
5:04					190				300	
5:05					192				300	
5:06					15.4				300	
5:07					199.3				300	
5:08					201.8				300	
5:09					203				300	
5:10					203.5				300	
5:12					204.3				300	
5:14					205.2				300	
5:16					206				300	
5:18					206.8				300	
5:20					207.7				300	
5:25					209.4				300	
5:30					211.7				300	
5:45					215.4				300	



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PUMPING TEST

Date 7/12/2019 Formation Wilcox County Winston
 Well Observed New Well #6 Owner Town of Noxapater
 Well Pumped New Well #6 Average Discharge 300 GPM By 6" x 4"
 Static Water Level 100.3" Pump On 7/12/19 @ 5:00a.m. Pump Off 7/12/19 @ 9:00a.m.

Time	T (Mins.)	T (Mins.)	Tape Held	Wetted	Water Level		P.S.I.	IN	GPM	
6:00					217.1				300	
6:30					220.7				300	
7:00					222				300	
7:30					223.6				300	
8:00					224.4				300	
8:30					225				300	
9:00					225.5				300	



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RECOVERY

Date 7/12/2019 Formation Wilcox County Winston
 Well Observed New Well #6 Owner Town of Noxapater
 Well Pumped New Well #6 Average Discharge 300 GPM By 6" x 4"
 Static Water Level 100.3" Pump On 7/12/19 @ 5:00a.m. Pump Off 7/12/19 @ 9:00a.m.

Time	T (Mins.)	T (Mins.)	Tape Held	Wetted	Water Level		P.S.I.	IN	GPM	
9:00										
9:01					204					
9:02					198					
9:03					158					
9:04					140					
9:05					132					
9:06					128					
9:07					123					
9:08					121.3					
9:09					120					
9:10					119					
9:12					118					
9:14					117.3					
9:16					116.8					
9:18					116.2					
9:20					115.5					
9:25					114					
9:30					112					
9:45					110.5					
10:00					107.8					



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PUMPING TEST

Date 7/12/2019 Formation Wilcox County Winston
 Well Observed New Well #6 Owner Town of Noxapater
 Well Pumped New Well #6 Average Discharge Step Test By 6" x 4"
 Static Water Level 100.3" Pump On _____ Pump Off _____

Time	T (Mins.)	T (Mins.)	Tape Held	Wetted	Water Level		P.S.I.	IN	GPM	
							0	64	521	
							10	54.5	481	
							20	50	461	
							30	44.5	435	
							40	41	417	
							50	37	396	
							60	33	374	
							70	30.5	360	
							80	26	332	
							90	23.5	316	
							100	21	299	
						Shut off	120+			