

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: Marion
Permit #: **MS-GW-17357**
Driller: John W Thompson
Date drilling completed: 11-7-19

For Office Use Only:

Well #: **J134**
Aquifer: _____
E-Log #: _____

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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>Kokomo Shiloh Water Assoc</u>	Latitude: <u>31° 11' 58"</u> Longitude: <u>89° 59' 23"</u>
Mailing Address: <u>521 Old Hwy 24 W</u> <u>Kokomo, MS 39643</u>	Method of Lat/Long (check one): Conventional Survey _____ USGS quad _____, Hand-held GPS _____, Survey-grade GPS _____ _____ 1/4 _____ 1/4, Sec <u>28</u> T <u>3N</u> R <u>12E</u>
City _____ State _____ Zip Code _____	<u>7.5</u> Miles <u>W</u> of <u>Foxworth</u> (Distance) (Direction) (Nearest Town)
Telephone No. (____) _____	

Well / Borehole Data	
Date drilling started: <u>7-16-19</u> Date drilling completed: <u>11-7-19</u> Hole depth: <u>356</u> Hole diameter: <u>21</u>	
Location of the source of any surface water used for drilling: <u>hydrant</u>	
Method of dosing and volume of Chlorine used in drilling and development: _____	
Logs run (check all applicable): <input type="checkbox"/> log run <input checked="" type="checkbox"/> Electric <input type="checkbox"/> Gamma Ray <input type="checkbox"/> Density <input type="checkbox"/> Sonic <input type="checkbox"/> Neutron Other: _____	
Name of organization running log(s): <u>Teaco</u>	
Purpose of borehole (check one): Water Well <input checked="" type="checkbox"/> Geotechnical/Geological Investigation <input type="checkbox"/> Ground Source Heat Pump <input type="checkbox"/> Seismic Survey Other (describe) _____	
<i>If drilling is not related to water well construction, skip the remainder of this block</i>	
Purpose of Well (check all applicable): <input type="checkbox"/> Home <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Public Supply <input type="checkbox"/> Irrigation <input type="checkbox"/> Fish Culture Other (describe): _____	
If a flowing well, method of flow regulation: Valve _____ Other (describe) _____	
Static Water Level: <u>102</u> feet <input type="checkbox"/> above or <input checked="" type="checkbox"/> below land surface Date measured: <u>9-19-19</u> (check one)	
Method of measurement (check one) <input checked="" type="checkbox"/> Steel tape <input type="checkbox"/> Electric tape <input type="checkbox"/> Air line <input type="checkbox"/> Other (describe): _____	
Well depth: <u>356</u> Well grouted to a depth of: <u>270</u> feet Type of grout (check one) <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Mix	
Casing length: <u>270</u> feet Casing diameter: <u>16</u> inches Type of casing: <u>Steel</u>	
Screen length: <u>77</u> feet Screen diameter: <u>10</u> inches Type of screen: <u>8x10 manpac</u>	
Screen slot size: <u>.020</u> inches Setting depth: From <u>273</u> feet to <u>350</u> feet	
Type of completion (check all applicable) <input checked="" type="checkbox"/> gravel packed <input type="checkbox"/> Underreamed <input type="checkbox"/> Open hole <input type="checkbox"/> Natural Development Other (describe): _____	
Top of lap pipe or reduction in casing: 203 feet	
<i>If telescoped or more than one screen, describe on next page</i>	

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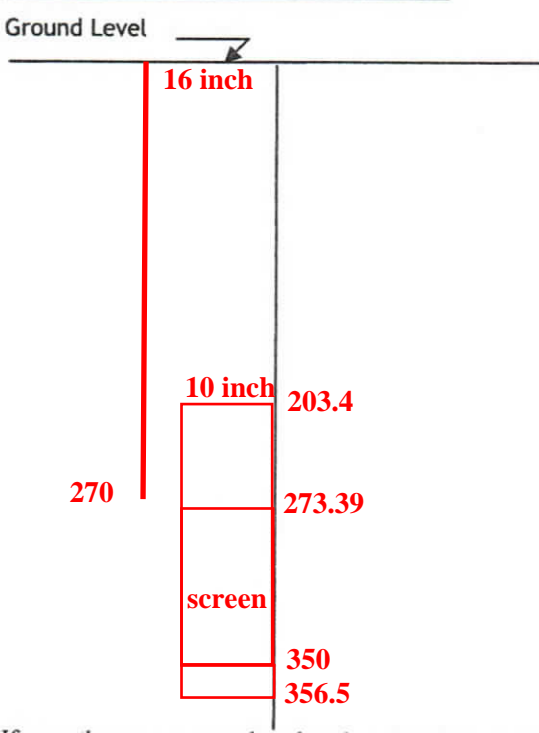
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County: Marion
 Permit #: MS-GW-17357

For Office Use Only:
 Well #: J134

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)
sandy clay	Ground level	20
sand	20	80
sand & clay	80	100
clay	100	140
sand	140	200
sand & small pea gravel	200	260
sand & clay	260	270
sand/pea gravel	270	370
clay	370	430

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: _____

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 0679 12-16-19 John W Thompson
 Print Name of Responsible Licensee and License No. Date Signature of Licensee

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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 #: **J134**

Aquifer: _____

County: Marion
Permit #: **MS-GW-17357**
Driller: John W Thompson
Date completed: 11-7-19
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>Kokomo Shiloh Water Association</u>			Latitude: <u>31°11'58"</u> Longitude: <u>89°59'23"</u>		
Mailing Address: <u>521 Old Hwy 29 W</u> <u>Kokomo MS 39643</u>			Method of Lat/Long (check one): Conventional Survey _____, USGS quad _____, Hand-held GPS _____, Survey-grade GPS _____		
City	State	Zip Code	_____ 1/4 _____ 1/4, Sec <u>28</u> T <u>3N</u> R <u>12E</u>		
Telephone No. (____) _____			<u>7.5</u> Miles <u>W</u> of <u>Foxworth</u>	(Distance) (Direction) (Nearest Town)	

Pump Type (check one)
 Submersible Turbine Air Lift Centrifugal Flowing Well Jet Piston Rotary Other (describe): _____
 Date Pump Installed: 11-7-19 Rated Pump Capacity: 500 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: 40 Setting Depth: 250 feet Number of Stages: 4

Pump Test Data for Non Flowing Well
 Date Well Tested: 9-19-19 Duration of Pump Test (minimum 4 hours): _____ hours
 Static Water Level (A): 101 Feet Below Land Surface Pumping Water Level (B): 123 Feet Below Land Surface
 Drawdown [(B) - (A)]: 22 Feet Below Land Surface Test Pumping Rate: 500 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 12-16-19 John W Thompson
 Print Name of Pump Installer and License No. (if applicable) Date Signature of Pump Installer

01-16-2020

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Kokomo-Shiloh Water

bleed string

21" hole to 271'

TOLP = 203.40

Top Screen 273.39

BIT/1 screen 350.00

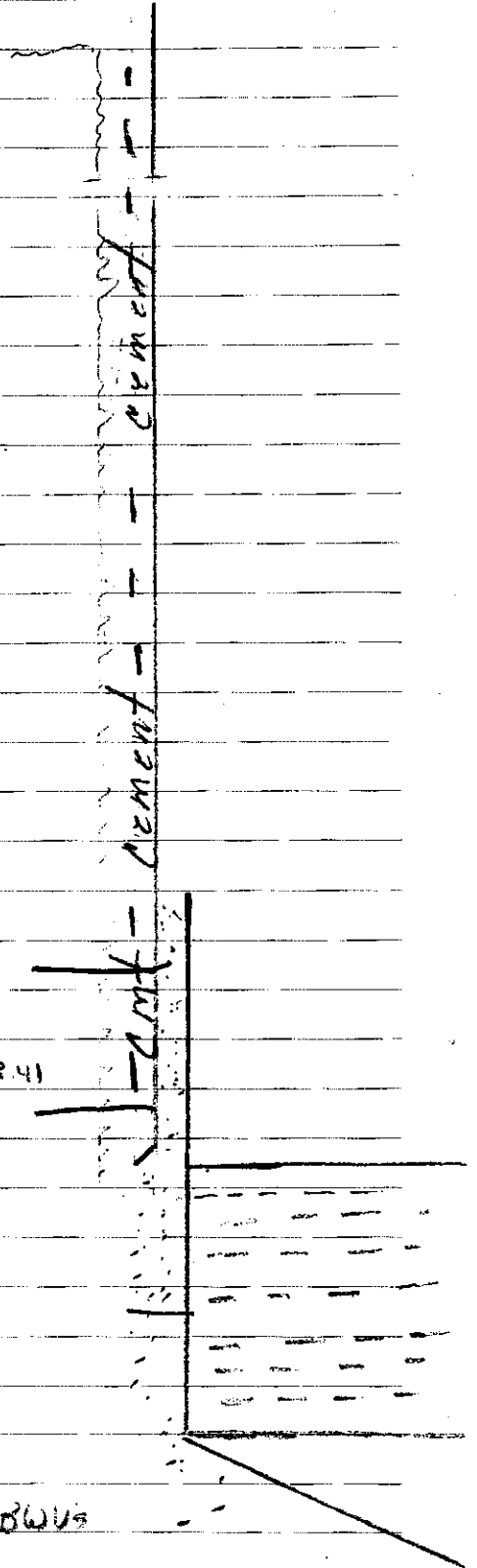
16-30 sand f

10" Int/Ext control lap f/ 273.39 - 203.41

16" casing w/ coated ID set @ 270'
8-9-19

8" x 10" manpac .020 f/ 350' - 273.39

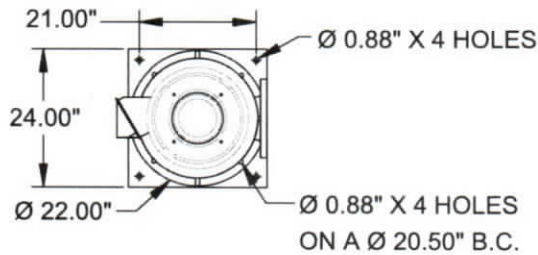
4" stringer w/ 4x2 wash plug and 2-4" BWS
f/ 350 - 356.5



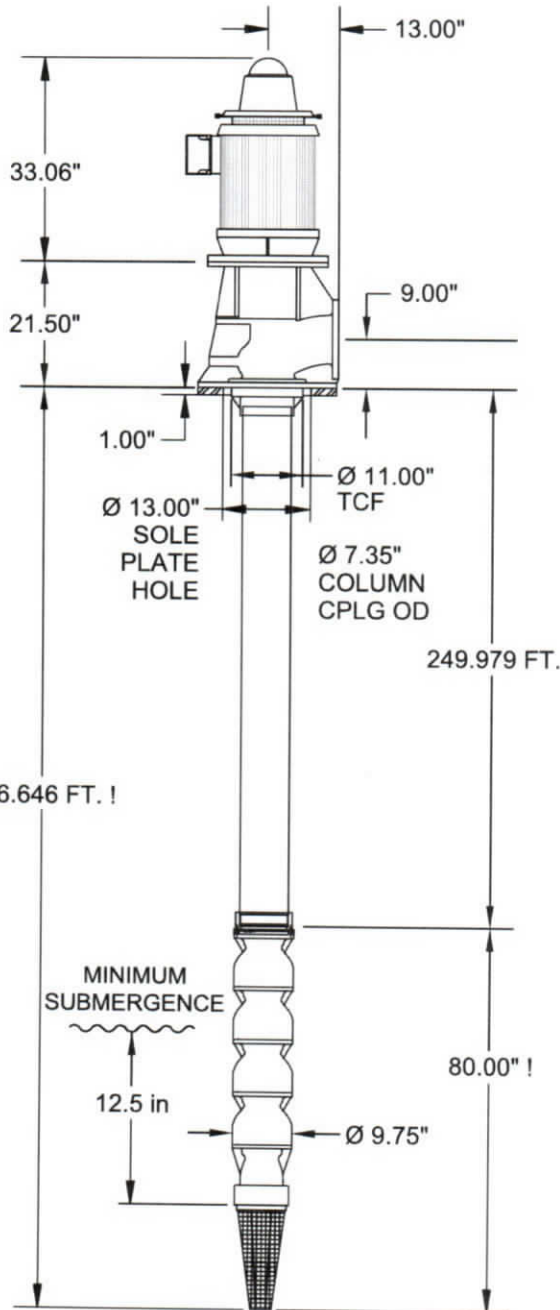
VERTICAL TURBINE PUMP



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MOTOR	
MFGR	US
HP	40
ENCLOSURE	WP1
RPM	1800
TYPE	VHS
PHASE	3
HERTZ	60
VOLTS	230/460
S.F.	1.15
EFF.	PRE
BD	16.50"
BX	1.25"
KWY	0.25"
CPLG	NRR
THRUST	5700
FRAME	324TP
MODEL NO.	HO40P2BLG
CD	28.22"



DISCHARGE HEAD	
MODEL	HI-PRO (CI) W/10.0", 12.0", & 16.5" BD
ANSI CLASS	125-FF
DISCHARGE FLANGE	6"
PACKING BOX	X
SPLIT PACKING GLAND	NO
MECHANICAL SEAL	N/A
TENSION ASSEMBLY	N/A
SOLE PLATE	YES

COLUMN	
WALL	0.280"
THD	X
FLG'D	N/A
LINESHAFT	X
OPEN	X
ENCLOSED	(N/A)
SHAFT DIA	1.25"
TPI	10 TPI
TUBE DIA	N/A

BOWL	
STAGE	6
K10LC	X
BOWL ASSEMBLY	500 US GPM
FLOW	248 FT. HEAD
STRAINER	X
YES	NO
TYPE	CONE

MATERIALS

BOWLS	CI EN	COLUMN	A53, GR B
IMPELLERS	876 BZ (STD)	COLUMN CPLG	DI
BWL SFT	416 SS	SHAFT TUBE	N/A
COLLETS	316 SS	BRG RET	BZ
BOWL BRG	BOWL DWG	LINE SFT BRGS	RUBBER
BOLTING	SS	LINE SHAFT	SS (416)
TENSION BRG	N/A	SHAFT SLEEVES	N/A
MECH SEAL	N/A	SHAFT CPLG	SS (304)
SOLE PLATE	A-36	PACKING	GRAPHITE
BOWL WR	N/A	STRAINER	304SS
IMP WR	N/A	HEAD	CI
HEAD SHAFT	416 SS	HEAD SHAFT CPG	SS (304)
BOWL SURFACE FINISH	STD PAINT; OD		
COLUMN SURFACE FINISH	NO COATING		
HEAD SURFACE FINISH	STD PAINT; OD		

! OPTIONAL SUCTION PIPE LENGTH OF 20 FT. NOT INCLUDED IN TPL OR BOWL LENGTH DIMENSIONS

MFG. BY NATIONAL PUMP COMPANY

PROJECT NAME		
KSWA WELL PUMP P/L		
WEIGHT & THRUST ESTIMATES		
BOWL	525 LBS	COLUMN
COLUMN	5075 LBS	HEAD
HEAD	525 LBS	
SHAFT	1076 LBS	TUBE
TUBE	0 LBS	DRIVER
DRIVER	600 LBS	
HYD THRUST	1657 LBS	DRIVER MAX THRUST
DRIVER MAX THRUST	5700 LBS	
SPECIAL NOTE: DO NOT ASSEMBLE AS A SCVT PUMP		
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SHOWN.		
FOUR STAGE ASSEMBLY SHOWN.		
NOT FOR CONSTRUCTION UNLESS CERTIFIED.		
		C-130653 BUILD - 1



538 Moselle Seminary Road • Moselle, MS 39459 • (601) 425-0970

PUMPING TEST

Date 9/19/2019 Formation Miocene County Marion
 Well Observed New 500 GPM Well Owner Kokomo Shiloh Water Association
 Well Pumped New 500 GPM Well Average Discharge 500 GPM By 6"X5"
 Static Water Level 101.5 Pump On 9/19/19 @ 8:00 A.M. Pump Off 9/20/19 @ 8:00 A.M.

Time	T (Mins.)	T (Mins.)	Tape Held	Wetted	Water Level	Other wells running	P.S.I.	IN	GPM
8:00					119'3"	yes			500
8:01					120'	↓			500
8:02					120'	↓			500
8:03					120'	↓			500
8:04					120'2"	↓			500
8:05					120'6"	↓			500
8:06					120'10"	↓			500
8:07					120'11"	↓			500
8:08					121'	no			500
8:09					120'9"	↓			500
8:10					121'	↓			500
8:12					121'	↓			500
8:14					121'2"	↓			500
8:16					121'3"	↓			500
8:18					121'4"	↓			500
8:20					121'5"	↓			500
8:25					121'6"	↓			500
8:30					121'10"	↓			500
8:40					121'8"	yes			500



Thompson Brothers Drilling

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Time	T (Mins.)	T (Mins.)	Tape Held	Wetted	Water Level	Other wells running	P.S.I.	IN	GPM
8:50					121'	no			500
9:00					121'9"	yes			500
9:15					120'7"	no			500
9:30					121'9"	yes			500
9:45					122'	yes			500
10:00					122'	yes			500
10:15					121'7"	no			500
10:30					122'	no			500
10:45					121'7"	yes			500
11:00					121'9"	yes			500
11:15					121'10"	yes			500
11:30					120'9"	no			500
11:45					120'4"	no			500
12:00					121'	no			500
12:15					121'8"	no			500
12:30					122'	yes			500
12:45					121'7"	yes			500
1:00					121'5"	no			500
1:30					121'6"	no			500



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PUMPING TEST

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 Well Pumped New 500 GPM Well Average Discharge 500 GPM By 6"X5"
 Static Water Level 101.5 Pump On 9/19/19 @ 8:00 A.M. Pump Off 9/20/19 @ 8:00 A.M.

Time	T (Mins.)	T (Mins.)	Tape Held	Wetted	Water Level	Other wells running	P.S.I.	IN	GPM
2:00					122'	yes			500
2:30					120'	yes			500
3:00					122'	yes			500
3:30					123'1"	yes			500
4:00					123'8"	yes			500
4:30					123'	no			500
5:00					123'	no			500
5:30					123'	no			500
6:00					123'5"	yes			500
6:30					124'	yes			500
7:00					124'	yes			500
7:30					124'	yes			500
8:00					124'	yes			500
8:30					123'8"	no			500
9:00					123'5"	no			500
9:30					123'10"	yes			500
10:00					124'	yes			500
10:30					124'	yes			500
11:00					124'	yes			500

Observer Blake Young

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 Static Water Level 101.5 Pump On 9/19/19 @ 8:00 A.M. Pump Off 9/20/19 @ 8:00 A.M.

Time	T (Mins.)	T (Mins.)	Tape Held	Wetted	Water Level	Other wells running	P.S.I.	IN	GPM
11:30					124'				500
12:00					124'				500
12:30					124'				500
1:00					123'10"				500
1:30					124'				500
2:00					124'				500
2:30					124'				500
3:00					124'				500
3:30					124'				500
4:00					124'				500
4:30					123'				500
5:00					123'				500
5:30					124'1"				500
6:00					124'4"				500
6:30					124'4"				500
7:00					124'				500
7:30					124'				500
8:00					123'2"				500

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RECOVERY

Date 9/20/2019 Formation Miocene County Marion
 Well Observed New 500 GPM Well Owner Kokomo Shiloh Water Association
 Well Pumped New 500 GPM Well Average Discharge _____ By _____
 Static Water Level 101.5 Pump On _____ Pump Off _____

Time	T (Mins.)	T (Mins.)	Tape Held	Wetted	Water Level	Other wells running	P.S.I.	IN	GPM
11:30					97'				
11:31					104'				
11:32					104'				
11:33					103'9"				
11:34					103'7"				
11:35					103'5"				
11:36					103'5"				
11:37					103'3"				
11:38					103'3"				
11:39					103'3"				
11:40					103'1"				
11:42					103'				
11:44					102'11"				
11:46					102'11"				
11:48					102'9"				
11:50					102'9"				
11:55					102'7"				
12:00					102'6"				
12:15					102'4"				



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RECOVERY

Date 9/20/2019 Formation Miocene County Marion

Well Observed New 500 GPM Well Owner Kokomo Shiloh Water Association

Well Pumped New 500 GPM Well Average Discharge _____ By _____

Static Water Level 101.5 Pump On _____ Pump Off _____

Time	T (Mins.)	T (Mins.)	Tape Held	Wetted	Water Level	Other wells running	P.S.I.	IN	GPM	
12:30					102'4"					
12:45					102'4"					
1:00					101'11"					
1:15					101'2"					
1:30					101'7"					

Observer Blake Young