County: Madison
Permit #: MS-GW-17078
Driller: Griner Drilling
Date drilling completed: 2-15

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
(601)961- 5210
(601)961- 5228 (fax)

For Office Use Only:
Aquifer:
Well #: R38
L. S. Elevation: 252
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.

Information on Well Owner
(Landowner if borehole is not for a water well)

Owner Name: Town of Flora
Mailing Address: 168 Carter Street
Flora (City) MS (State) 39071 (Zip Code)
Telephone No. ( )

Well or Borehole Location

Latitude: 32.565797 ° ' " Longitude: -90.322970 ° ' "
Method of Lat/Long (circle one): Conventional Survey, USGS quad, Hand-held GPS, Survey-grade GPS
NE ¼ SW ¼ Sec 05 Twn 08N Rng 01W
Distance 0 Miles Direction C of Nearest Town Flora

Well / Borehole Data

Date drilling started: 1-14 Date drilling completed: 2-15 Hole depth: 1400 Hole diameter: 9 7/8
Location of the source of any surface water used for drilling: Public water supply
Method of dosing and volume of Chlorine used in drilling and development: NA
Logs run (circle all applicable): No log run (Electric) (Gamma Ray) Density Sonic Neutron Other:
Name of organization running log(s): Griner Drilling
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 X Irrigation___ Fish Culture ___ Other:
If a flowing well, method of flow regulation: Valve ___ Other (describe)
Static Water Level: 224 feet above or ~~below~~ (circle one) land surface Date measured: 1-23-15
Method of Measurement (circle one) steel tape electric tape air line other:
Well depth: 1280 Well grouted to a depth of 1100 feet Type of grout (circle one): (Neat Cement) Bentonite Mix
Casing length: 1100 feet Casing diameter: 12 inches Type of casing: steel
Screen length: 80 feet Screen diameter: 8 inches Type of screen: Stainless wire wrap
Screen slot size: .20 inches Setting depth: From 1200 feet to 1280 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: 1080 feet. ***If telescoped or more than one screen, describe on next page***

Form: OLWR-SWR-1A (04/08)

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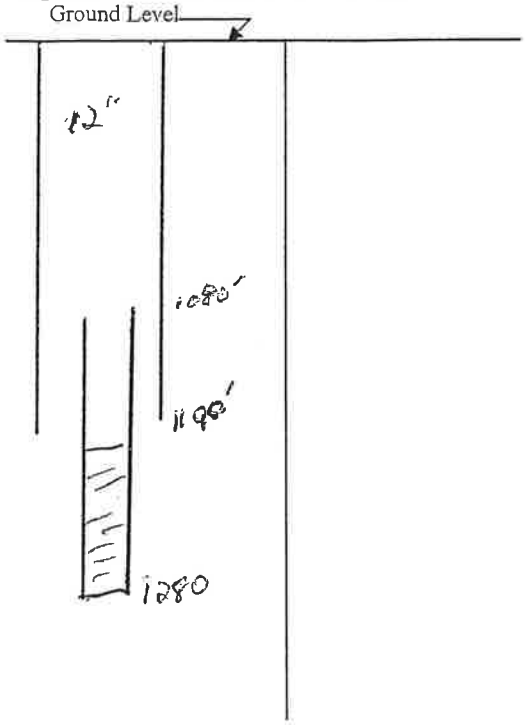
MS-GW-17078

R38 Madison Co.

The sketch below only required for water wells

If well telescopes, show depths on sketch.

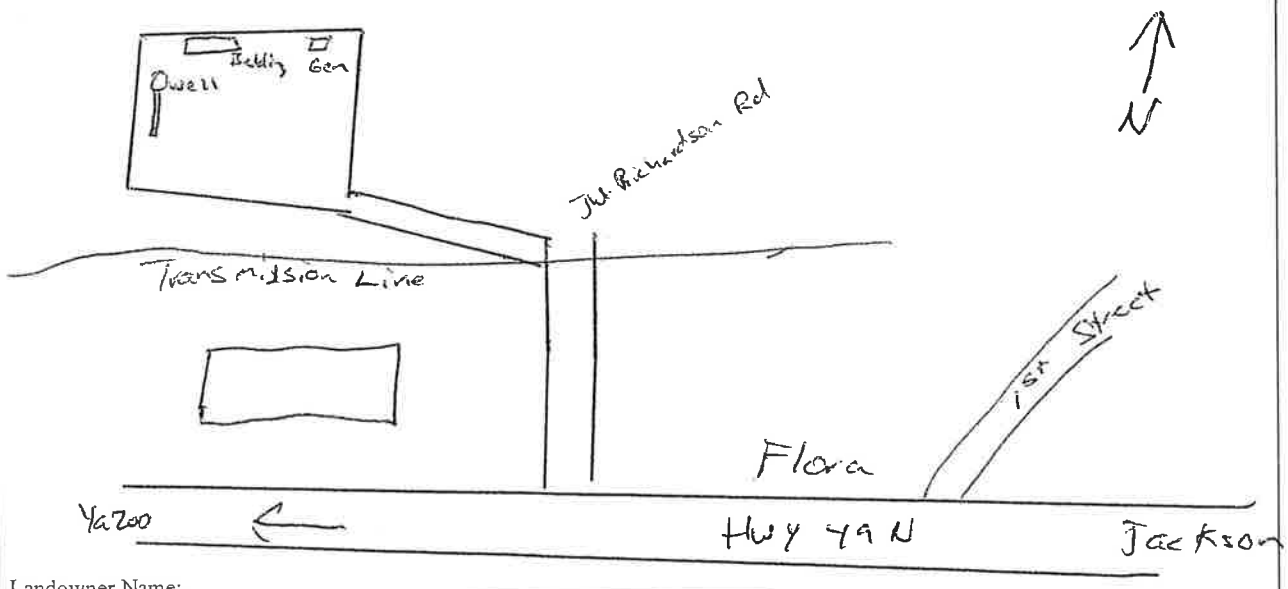


If more than one screen, show location of each on sketch

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)
f.l red clay	Ground Level	32
Grey Clay	32	338
sandy, clay grey, shale	338	369
grey clay & shale	369	464
Sand	464	524
grey clay sandy streaks	524	651
Sand	651	681
sandy Clay to grey	681	868
Clay	868	1088
Sand	1088	1369
clay red	1369	1400

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.



Landowner Name: _____

Form: OLWR-SWR-1A (04/08)

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.

Ryan Herndon 0700 — **Print Name of Responsible Licensee and License No.**

3-23-15 — **Date**

Signature of Licensee

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County: Madison
Permit #: MS-GW-17078
Driller: Coiner Drilling
Date completed: 2-15
Copy information from block on Part 1

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
(601)961-5210
(601)961-5228 (fax)

For Office Use Only:
Aquifer:
Well #: R38
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

Owner Name: Town of Flora
Mailing Address: 168 Carter Street
Flora (City) MS (State) 39071 (Zip Code)
Telephone No. (____)

Well Location

Latitude: 32.565797 Longitude: 90.322970
Method of Lat/Long (check one): Conventional Survey____, USGS quad____, Hand-held GPS___, Survey-grade GPS___
____ ¼ ____ ¼ Sec____ T____ R____
Distance 0 Miles Direction ____ of Nearest Town Flora

Pump Type
Circle one
Air Lift | Jet | Submersible
Bucket | Piston | (Turbine)
Centrifugal | Rotary | Flowing Well
Other (specify): ____
Date Pump Installed: ____
Rated Pump Capacity: 500 Gallons Per Minute

Power Type
Circle one
Diesel Engine | Gasoline Engine | Natural Gas
(Electric Motor) | Hand | Tractor PTO
Windmill | Other (specify): ____
Horse Power Rating of Motor: 100
Setting Depth: 320 feet
Number of Stages: 10

Pump Test Data
Date Well Tested: 1-23-15
Static Water Level (A): 219 Feet (Below) Land Surface
Pumping Water Level (B): 231 Feet (Below) Land Surface
Drawdown [(B) – (A)]: 12 Feet (Below) Land Surface
Test Pumping Rate: 506 Gallons Per Minute
Duration of Pump Test (minimum 4 hours): 4 hours

Method of Measuring Water Level
Circle one
Air Line | (Electric Measuring Line) | Steel Tape
Other (specify): ____
For flowing well, measured shut in head: NA feet
Well yielded 506 GPM with a drawdown of 12 feet after 4 hours of pumping

This is for (circle one): (New Well) Replacement of Existing Pump Repair of Existing Pump

I HEREBY CERTIFY that the above statements are true to the best of my knowledge.
Ryan Herndon 0-700 ue
Print Name of Pump Installer and License No. (if applicable)
Signature of Pump Installer

Form: OLWR-SWR-1C (07-09)

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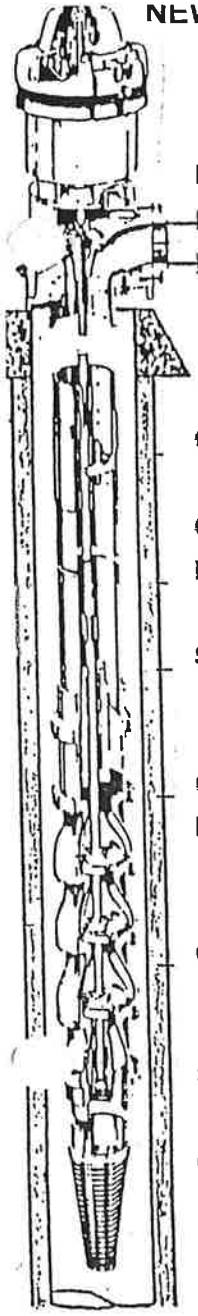
NEW INSTALLATION

Griner Drilling Service, Inc.

126 Interstate Drive - Richland, MS 39218 - Phone: (601) 932-4511

R38 Madison Co.
MS-GW-17078



PROJECT Flora | DRILLER Chris Renaldo | JOB # 2013RM1005

LOCATION JW Richardson Rd | DATE COMPLETED 2/15 | TEST HOLE 1380 FT.

ENGINEER Brian G. Granger - Waggoner Engineering, Inc.

WELL DATA

Well Depth 1280 ft.

CASING Size 12 in. | Material A53 Grade B Coated
Length 1190 ft. | Coating Yes - 12 mills

CEMENT Grout Type Neat cement | No. of Sacks

LAP PIPE Size 8 in. | Material A53 Grade B Coated OD & ID
Length 120 ft. | Type of Seal Gravel Wall

SCREEN Size 8 in. | Brand Johnson
Length 80 ft. | Material Stainless Wire Wrap | Slot size .20
Backwash Valve Yes | Material Bronze

GRAVEL PACK Cubic Yards 5.5 | Size of Underreamed Hole 12 in.

HYDRAULICS Static Water Level 219 ft. | Pumping Water Level 231 ft.
Drawdown 11 ft. | Specific Capacity 46 gal./ft.
Total Dynamic Head 455 ft. | Capacity 506 GPM

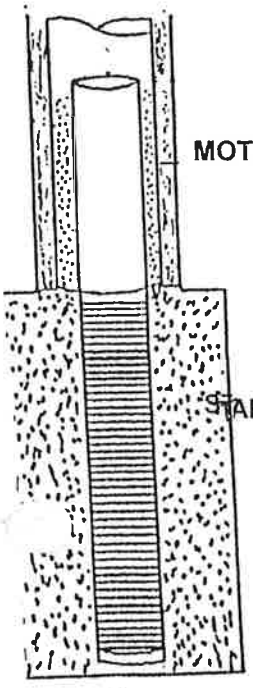
CHLORINATOR Superior

PUMP DATA

DISCHARGE HEAD X Oil Lube | Water Lube
Solenoid 460 Volts | Discharge 8 in.

COLUMN Size 6 in. | Material Black Steel | Coating Yes
Length 320 ft. | Oil Lube 2 / in. | Shafting 1 1/4

BOWL ASSEMBLY Make American | Serial No. 10M55 | Stages 10
Diameter 10 in. | Material Cast
Suction Size 6 in. | Length 20 ft.
Air Line Length 320 ft. | Material Stainless



ELECTRIC MOTOR DATA

MOTOR Vertical Hollow Shaft 100 HP | 1800 RPM | 3 Phase
Model / Make US | 480 Volts | 60 Cycles
Base Diameter 18 in. | Ratchet | Self releasing X | Non reverse
Other

CONTROL PANEL DATA

STARTER Size & Make Allen Bradley Soft Start | **HEATER** Size & Make Electronic
Breaker 400 AMP | Fuse
460 Volts | 3 Phase | Delta Service | Open | X Closed

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R38 Madison Co.
MS-GW-17078

Driller's Log
Town of Flora
2/4/2014

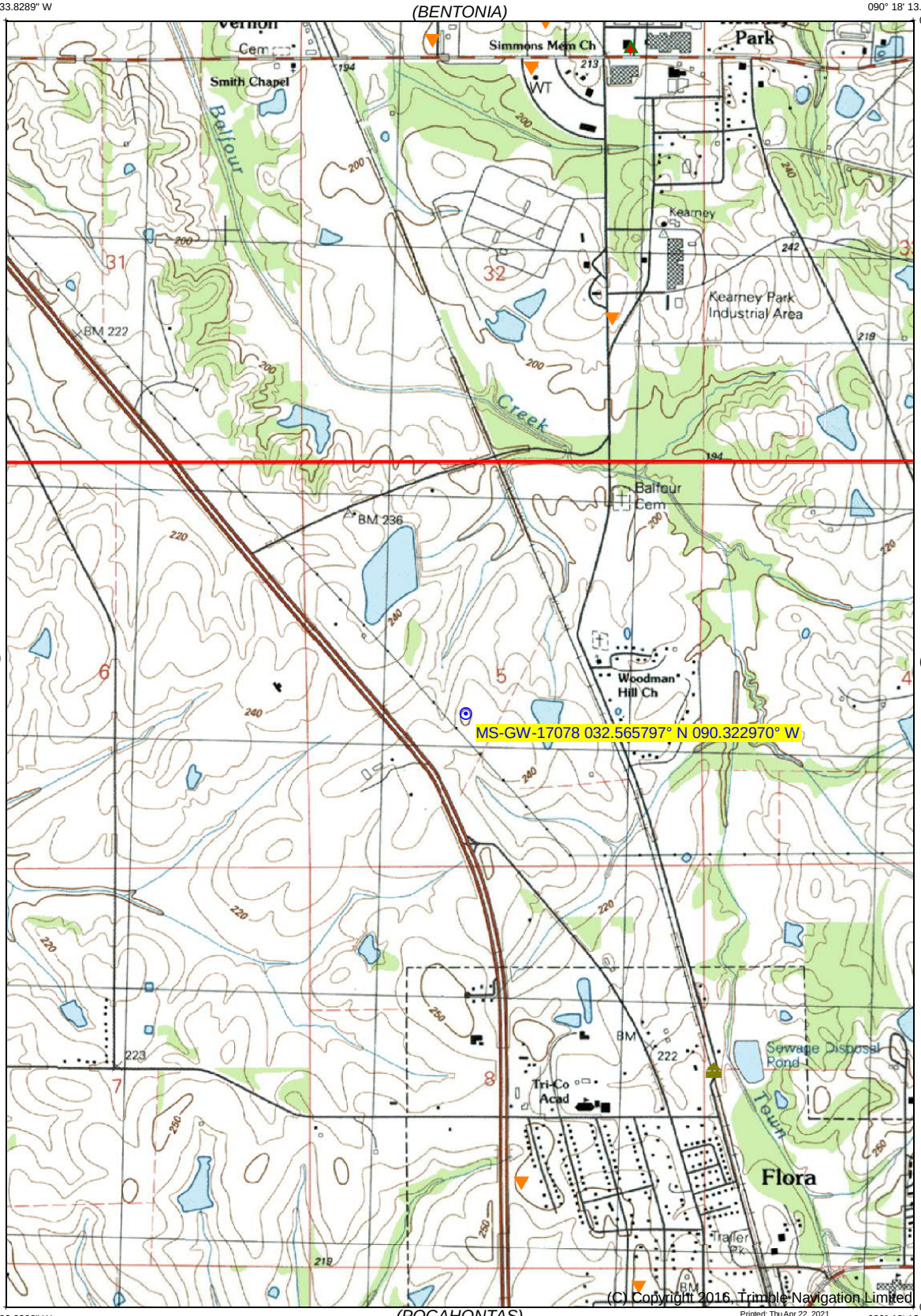
DEPTH	DESCRIPTION
0-32	fill dirt, clay, gray clay
32-60	gray clay
60-91	gray clay
91-120	gray clay
120-151	gray clay
151-183	gray clay
183-214	gray clay, brown clay stks
214-246	gray clay
246-277	gray clay
277-308	clay, gray clay
308-338	gray clay, clay
338-369	sndy clay & sndy & shell strks
369-401	sndy cly/cly
401-432	clay/lignite stks/sandy stks
432-464	clay, sand stks, sand/shell brk, lignite stks
464-495	mostly sand
495-526	mostly sand
526-557	sand, clay, brown clay, gray clay, shell brk @ 532
557-589	sandy clay
589-620	sandy clay, lignite stks
620-651	sandy clay, gray clay stks, sand
651-681	sand
681-712	sand, clay stk
712-743	sand, clay bks
743-774	sand, cly bks, sandy clay
774-806	sandy clay, sand
806-837	sandy clay, clay
837-868	sandy clay, clay
868-899	clay, sandy clay
899-830	mostly clay
930-962	clay/sand stks, hard spot @ 940
962-993	clay/sand stks
993-1025	clay/sndy cly
1025-1056	sandy clay/sand
1056-1088	sand/brown clay streaks
1088-1119	sand/cly stks
1119-1151	sand
1151-1182	sand
1182-1212	sand, sandy clay
1212-1243	sand, sandy clay
1243-1275	sand, sandy cly stks
1275-1306	sand
1306-1337	sand
1337-1369	sand
1369-1399	sand/red clay

FLORA QUADRANGLE
MISSISSIPPI
TOPOGRAPHIC SERIES

(TINSLEY) (BENTONIA) (BERRYVILLE)

090° 20' 33.8289" W
032° 35' 27.4154" N

090° 18' 13.3966" W
032° 35' 27.4154" N



(COXS FERRY) (CHARLTON)

032° 32' 39.7799" N
090° 20' 33.8289" W

032° 32' 39.7799" N
090° 18' 13.3966" W

Printed: Thu Apr 22, 2021

(POCAHONTAS)

(BROWNSVILLE) (RIDGELAND)

SCALE 1:24000

Declination

MN GN

GN 1.44° E
MN 1.03° W

0 1
Mile

0 1000
Yards

0 1
Kilometer

CONTOUR INTERVAL 10 FT

Produced by Trimble Terrain Navigator Pro
Topography based on USGS 1:24,000 Maps

North American 1983 Datum (NAD83)

To place on the predicted North American 1927 move the projection lines 16M N and 9M W

32090-E3-TM-024
FLORA, MS
JAN 1, 1988