

C1 61872

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE RECEIVED MM DD YY

01 05 14

22 300 26

HO-1K-0052

OWNER Elm Street Development WELL SITE ADDRESS last name Green Bridge RD first name TOWN Dayton SUBDIVISION Simpson Property SECTION LOT 43

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes handwritten entries: Soil, Brown shale, med GRAI, Rock.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES NO TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 24 NO. OF POUNDS 1800 GALLONS OF WATER 120 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 63 ft.

CASING RECORD

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 65

OTHER CASING (if used)

Table for other casing with columns for diameter and depth.

SCREEN RECORD

screen type or open hole (insert appropriate code below) ST BR HO PL OT

DEPTH (nearest ft.)

Table for depth with columns for slot size and diameter of screen.

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 15.0 METHOD USED TO MEASURE PUMPING RATE Water/Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 26 ft. WHEN PUMPING 76 ft. TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) + above LAND SURFACE - below 1 (nearest foot)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES NO Y N

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. M D 355

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. D 113

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

TELESCOPE CASING LOG INDICATOR OTHER DATA

LATITUDE 39.23209 LONGITUDE 77.00185 (DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed...

TAG = 06/04/2009

B 1 63119

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

H0-18-0052

please type

fill in this form completely

OWNER INFORMATION: Date Received (APA) 03/19/19, Elm Street Development, 1355 Beverly Road, McLean VA 22101

LOCATION OF WELL: Howard County, Simpson Property, Section 44, Lot 43, Dayton

DRILLER INFORMATION: Michael Barlow, MWD 355, Barlow Well Drilling, 522 Underwood Lane, 21014

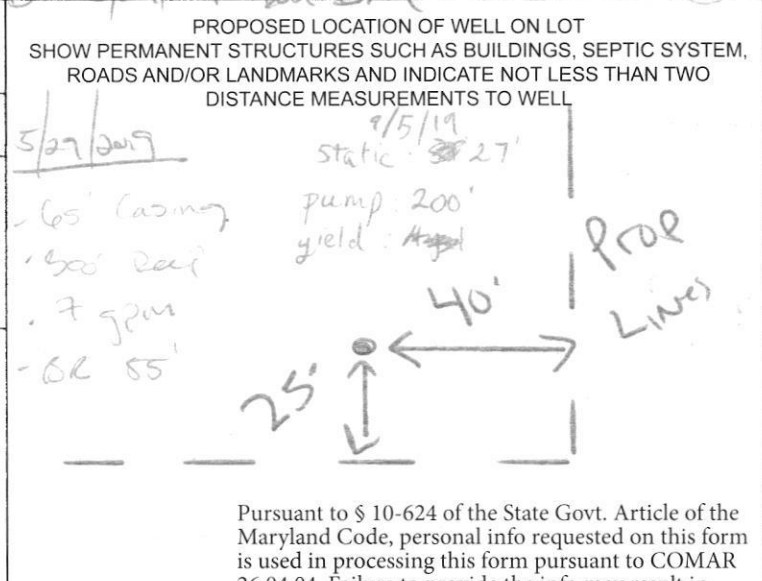
SOURCES OF DRILLING WATER: Green Bridge Road, Well, 1500 ft distance from road, Tax Map 27, Blk 18, Parcel 36

WELL INFORMATION: APPROX. PUMPING RATE 5 GAL. PER MIN., AVERAGE DAILY QUANTITY NEEDED 250 GAL. PER DAY

USE FOR WATER: DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL: Howard County, State Signature, Date Issued 4/25/19, CO Signature, Exp. Date 4/25/20

APPROXIMATE DEPTH OF WELL 300 FEET, APPROXIMATE DIAMETER OF WELL 6 INCH



METHOD OF DRILLING: BORED (or Augered), AIR-ROTary, AIR-PERcussion, ROTARY (Hydraulic Rotary), Drive-POINT

REPLACEMENT OR DEEPEMED WELLS: THIS WELL WILL NOT REPLACE AN EXISTING WELL

Not to be filled in by driller (MDE OR COUNTY USE ONLY): APPROP. PERMIT NUMBER H02017G001, PERMIT No. H0-18-0052

Pursuant to § 10-624 of the State Govt. Article of the Maryland Code, personal info requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info may result in this form not being processed.



MICHAEL BARLOW WELL DRILLING & SERVICE, INC.

522 Underwood Lane
(410) 838-6910

Bel Air, Maryland 21014
Fax (410) 838-3582

WELL YIELD REPORT

| | | | |
|----------------------|------------------------|-------------|------------------|
| Date Test Completed: | September 5, 2019 | | |
| Well Depth: | 300 | feet | |
| Customer | Elm Street Development | Permit # | HO-18-0052 |
| Road | Green Bridge Rd | Subdivision | Simpson Property |
| City | Dayton | Section | |
| State | Maryland | Lot # | 43 |

| Time | Water Level feet Pump set at 200' | Time to Fill 1-gallon bucket seconds | G.P.M. |
|---|---|--|--------|
| 1:30 PM | 26 | 4 | 15.00 |
| 1:45 PM | 60 | 4 | 15.00 |
| 2:00 PM | 70 | 4 | 15.00 |
| 2:15 PM | 72 | 4 | 15.00 |
| 2:30 PM | 72 | 4 | 15.00 |
| 2:45 PM | 73 | 4 | 15.00 |
| 3:00 PM | 73 | 4 | 15.00 |
| 3:15 PM | 74 | 4 | 15.00 |
| 3:30 PM | 74 | 4 | 15.00 |
| 3:45 PM | 75 | 4 | 15.00 |
| 4:00 PM | 75 | 4 | 15.00 |
| 4:15 PM | 76 | 4 | 15.00 |
| 4:30 PM | 76 | 4 | 15.00 |
| 4:45 PM | 76 | 4 | 15.00 |
| | | | |
| | | | |
| This yield test report is for informational purposes only. Please note the yield may increase or decrease over time and the GPM indicated above is not a guarantee. | | | |



**HOWARD COUNTY
HEALTH DEPARTMENT**

Bureau of Environmental Health
8930 Stanford Blvd | Columbia, MD 21045
410.313.2640 - Voice/Relay
410.313.2648 - Fax
1.866.313.6300 - Toll Free

Maura J. Rossman, M.D., Health Officer

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Fogle's Well Pump & Water Treatment, LLC Telephone #: 410 795 1535
Address: PO Box 63
Woodbine MD 21797

Must circle one: Licensed Plumber / Licensed Well Driller / Licensed Well Pump Installer

License # and name of individual responsible for the field installation:

Name (Print): David C. Fogle License# MD2226

*A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.

Name of Property Owner: Toll Brothers Telephone #: _____
Subdivision: Willow Creek Lot #: 43 Well Tag #: HO-16-0052
Site Address: 6049 Bricker Rd
Dayton, MD 21036

08/04/2022

Submersible Pump Data

Make: Grundfos
Model #: 1550F07-190
Pump Capacity: 15
Well Yield: 15
Depth of well encountered at time of pump installation: 300 (feet)

Pitless Adapter

Make: Campbell +
Model#: NA
GPM Depth: 36' (36" min)
GPM NSF/WSC approved: Y/S

Well Cap and Electric Conduit

Two piece watertight cap: Y/S
Screened, vented well cap: Y/S
Cap secured to casing: Y/S
Conduit min 18" B.G.: Y/S
Conduit secured to well cap: Y/S

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Must circle one: Torque restrictors / Cable guards / Other acceptable method used

Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing NA

Piping to house

Type: 1" poly pipe
PSI: 200 (160 psi min)
Depth of supply line: 36" (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: Y/S
Length of sleeve (5' minimum from foundation): 6'
Sleeve sealed properly: Y/S

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative/responsible for installation: [Signature]

date: 8/31/2022

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 08/04/2022 Date Insp. Approved: 08/04/2022 Inspector: [Signature]
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade
Two piece cap installed and attached to casing securely
Elec. conduit extends at least 18" below grade/attached to cap properly
Safety rope not outside of well cap/casing
Correct well tag attached properly and casing 8" above finished grade
Water supply line sleeved adequately at house connection
Adequate grout observed below pitless adapter

43 08/04/2022 [Signature]
22 08/04/2022 [Signature]

(Revised form 10/24/2018)

House
[Handwritten notes]

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – APRIL 13, 2022

October 13, 2022

Homeowner
6049 Bricker Road
Dayton, MD 21036

RE: Willowshire, Lot 43
6049 Bricker Road
Building Permit: B22000802
Well Permit: HO-18-0052

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **8/4/2022**. Final approval of the well line connection to the dwelling was granted on **8/4/2022**. The well construction was completed on **9/5/2019**. Water samples were collected on **10/10/2022**.

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-18-0052. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.


This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. **Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the *Annotated Code of Maryland, Environment Article, 9-1311*, subject to a fine of up to \$500 or imprisonment not to exceed three months.**

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:
<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

Maura J. Rossman, M.D., Health Officer

In closing, please refer to our "Homeowner Fact Sheet" which illustrates a better understanding for your Onsite Sewage Disposal System. You will also find a link to Maryland Department of the Environment's website which describes in further detail operation and maintenance of your septic system.

Approving Authority,



Kevin M. Wolf, LEHS, R.S./REHS, Supervisor
Groundwater Management Section
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File

Maura J. Rossman, M.D., Health Officer

MEMORANDUM

TO: Michael Barlow (MWD 355)
Barlow Well Drilling

FROM: Sarah Collins, L.E.H.S. **SEC**
Howard County Health Department
Well and Septic Program

DATE: April 25, 2019

RE: Well permits for lots 26-45 of the Simpson Property

Per the approved Water Appropriation and Use Permit from the State of Maryland, Department of the Environment, Water and Science Administration:

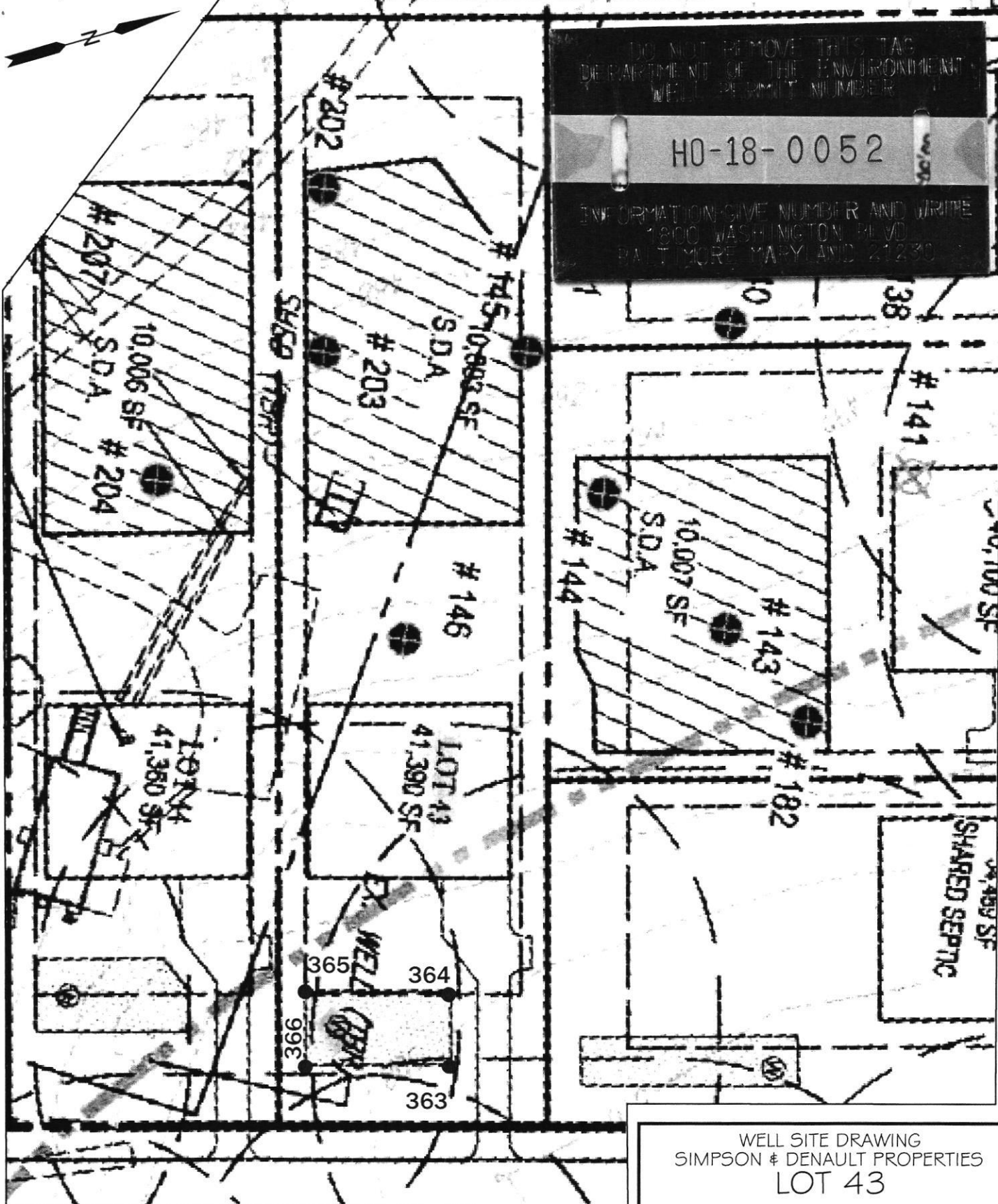
15. Well Spacing and Testing – The Permittee shall conduct simultaneous yield tests of wells closer than 100 feet apart, if at least one of the wells is on a lot less than one acre in size. The yield testing shall be conducted to ensure that the minimum yield requirements *COMAR 26.04.04.26* are met. In the event that a well that has been yield tested simultaneously with other wells does not meet minimum yield standards, the Permittee may relocate a well so as to achieve the 100-foot separation distance, deepen or otherwise modify the well to improve its yield or drill a second well to be used in tandem to meet minimum yield standards during simultaneous testing. All wells shall comply with well construction requirements.

The lots of the Simpson Property among lots 26-45 that are less than one acre in size include lots 28, 38, 39, 40, 41, 42, 43, and 44. Per the Water Appropriation and Use Permit, if a well on any of these lots is drilled within 100' of a well on another property, the two wells must be simultaneously yield tested. The well boxes on lots 42-44 are close the well boxes on lots 19-21 that Alexander's Well Drilling is drilling; coordinated yield testing between the two drilling companies may be required if the wells are within 100' of each other.

Sodium, chloride, and total dissolved solids (TDS) samples are required at yield for the wells on lots 26, 30, 31, 34, 35, 40, and 45.

Feel free to contact our office at 410-313-1771 with any questions.

Cc: Geoff Yeager, Elm Street Development (gyeager@elmstreetdev.com)
File

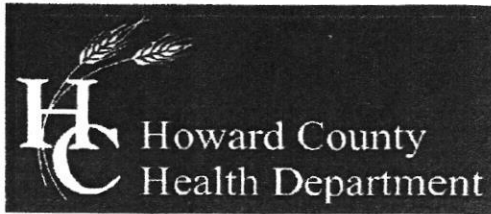


DO NOT REMOVE THIS TAG
 DEPARTMENT OF THE ENVIRONMENT
 WELL PERMIT NUMBER
H0-18-0052
 INFORMATION: GIVE NUMBER AND WRITE
 1800 WASHINGTON BLVD
 BALTIMORE, MARYLAND 21230

Well box approved
 4/25/19 SC
 Well box staked by
 Shanaburger + Lane

SHANABERGER & LANE
 8726 TOWN AND COUNTRY BLVD., SUITE 201
 ELLICOTT CITY, MD. 21043
 (410)461-9563 FAX: (410)461-9693

WELL SITE DRAWING
 SIMPSON & DENAULT PROPERTIES
LOT 43
 TAX MAP 27 GRID 18
 PARCELS 34, 36, 98, 111, & 112
 5TH ELECTION DIST.
 HOWARD COUNTY, MD.
 SCALE: 1"=50' DATE: 2/21/19



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Dr. Maura J. Rossman, M.D., Health Officer

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

Well Site Location:

Lot #'s 1, 2, 3, 4, 7, 8, 9, 10, 11, 14, PARCEL 'C', 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45

SIMPSON/DENAULT
Subdivision/Property Name

Lot #

GREEN BRIDGE RD.
Road Name

X The well site has been staked by SHANABERGER & LANE
(professional land surveyor or company employing professional land surveyors)
on 1/9/19 (date) and does not require a site inspection.

□ The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.



FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #: 155105 Account #: 1933
Reference: Willow Creek Lot 43 Client: Fogle's Well Pump & Treatment
Location: 6049 Bricker Road Requested By: Dave Fogle
Dayton, MD 21036 Source: Well Water
Date/ Time Collected: 10/10/2022 1050 Site: Kitchen Sink
Date/Time Rec'd: 10/10/2022 1305 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.9
Collected By: J. Smith 2896JS Well #: HO-18-0052

| PARAMETERS | RESULTS | UNITS | REFERENCE | METHOD | DATE/TIME/ANALYST |
|--------------------------------|---------|-------------|-----------|--------------------|-------------------------|
| Bacteria, Coliform, Total, MPN | <1.0 | MPN/ 100 ml | <1.0 | SM20 9223B | 10/11/2022 / 1000 / TSD |
| Bacteria, E. coli, MPN | <1.0 | MPN/ 100 ml | <1.0 | SM20 9223B | 10/11/2022 / 1000 / TSD |
| Nitrate. | 5.03 | mg/L | 10 | EPA 300.0 | 10/10/2022 / 1702 / MEW |
| Sand | ND | mg/L | 5 | Visual/Gravimetric | 10/11/2022 / 0920 / TSD |
| Turbidity | 0.67 | NTU | <10 | SM2130B | 10/11/2022 / 0930 / TSD |

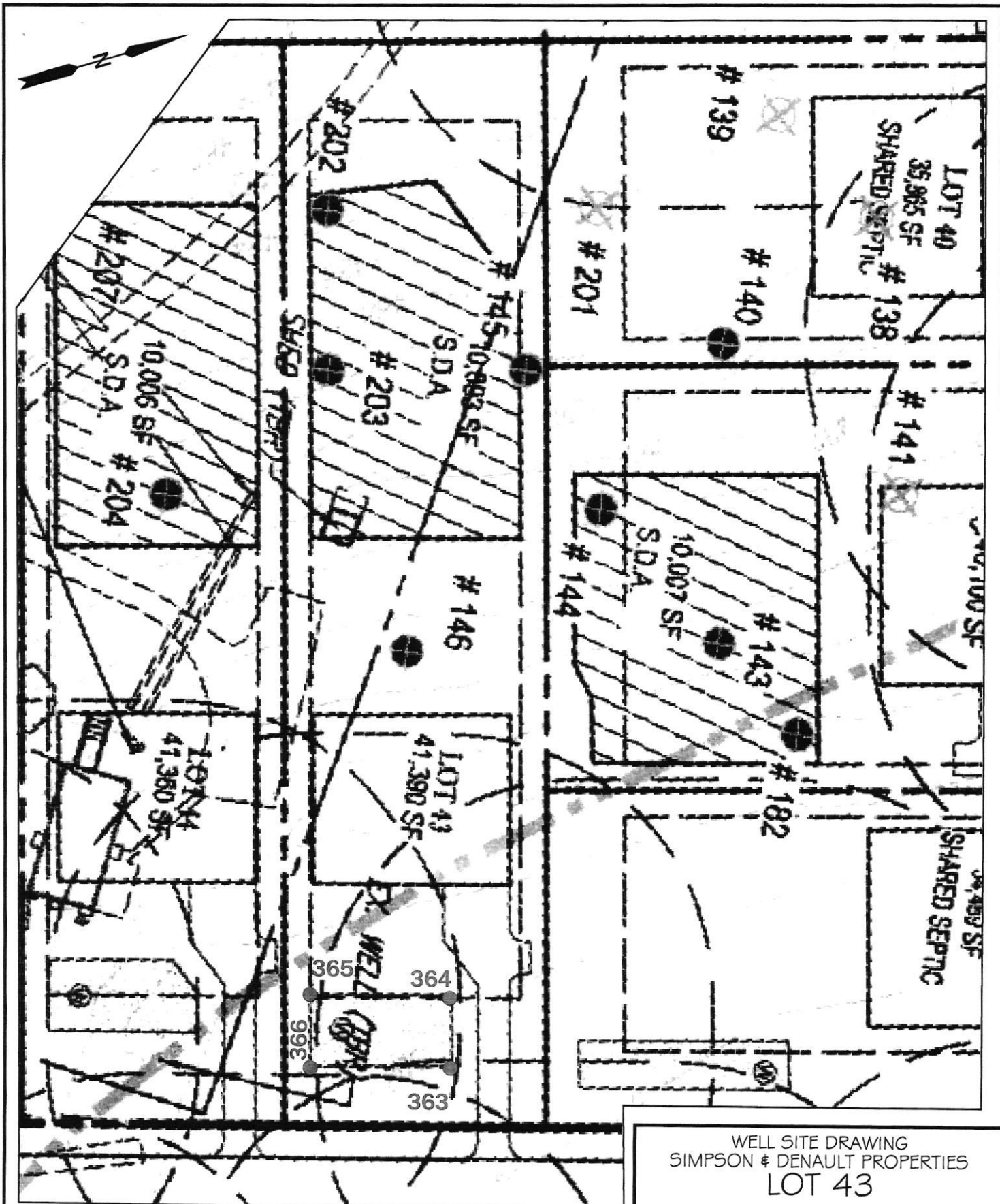
NOTES:

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NTU = Nephelometric Turbidity Units
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 Sample collected by client, analyzed as received
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy

Building Permit # : B22000802

Date Reported: 10/11/2022



WELL SITE DRAWING
 SIMPSON & DENAULT PROPERTIES
 LOT 43

TAX MAP 27 GRID 18
 PARCELS 34, 36, 98, 111, # 112
 5TH ELECTION DIST.
 HOWARD COUNTY, MD.
 SCALE: 1"=50' DATE: 2/21/19

SHANABERGER & LANE
 8726 TOWN AND COUNTRY BLVD., SUITE 201
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