

C 1 07799

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE Received MM DD YY

09/16/2020 Approved 10/22/2021 22 500 26

HO - 20 - 0075

OWNER: Heritage Land Development
WELL SITE ADDRESS: Heritage Ridge Rd.
SUBDIVISION: Linden Grove SECTION: TOWN: Woodbine LOT: 31

WELL LOG

Not required for driven wells

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N

TYPE OF GROUTING MATERIAL (Circle one) CEMENT BENTONITE CLAY

CEMENT NO. OF BAGS NO. OF POUNDS

GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 55 ft.

(enter 0 if from surface)

CASING RECORD

STEEL CONCRETE PLASTIC OTHER

MAIN CASING TYPE Nominal diameter top (main) casing Total depth of main casing

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD

STEEL BRASS BRONZE PLASTIC OPEN HOLE OTHER

DEPTH (nearest ft.)

HO 55 500

SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH)

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 6

PUMPING RATE (gal. per min.) 2.0

METHOD USED TO MEASURE PUMPING RATE Watch/Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 37 ft.

WHEN PUMPING 148 ft.

TYPE OF PUMP USED (for test)

A air P piston T turbine C centrifugal R rotary O other (describe below) J jet 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) LAND SURFACE

LATITUDE 39.33017 LONGITUDE 77.06099 (DEFAULT COORD. WGS 84)

NOTES:

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM TO), check if water bearing. Rows: Soil, Brown Shale, Soft Gray Rock, Med Gray Rock, Storage: 679.5 gal.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes Y no 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, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. M D 355

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

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

TAG# 9/16/2020 ST

B 1	68359	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL	STATE PERMIT NUMBER 40-20-0025
			507874 B please type	70 fill in this form completely 79

OWNER INFORMATION

Date Received (APA) 070820
8 MM DD YY 13

Heritage Land Development
15 Last Name Owner First Name 34

PO Box 482
36 Street or RFD 55

Lisbon, Md 21765
57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

Howard
8 COUNTY 21

Linden Grove
23 SUBDIVISION 42

SECTION 44 46 LOT 31 48 50

Woodbine
52 NEAREST TOWN 71

DRILLER INFORMATION

Michael Barlow **M N D 355**
Driller's Name 76 License No. 81

Barlow Well Drilling
Firm Name

522 Underwood Ln, Bel Air, Md 21014
Address

[Signature] 7-1-2020
Signature Date

B 4 SOURCES OF DRILLING WATER

11 Heritage Ridge Rd 30 STREET ADDRESS

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH
 WEST EAST
 SOUTH

34 40 37 DISTANCE FROM ROAD FT

ENTER FT OR MI 38 39

TAX MAP: 8 BLK: 9 PARCEL 5

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5
8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 750
14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

INDUSTRIAL, COMMERCIAL, DEWATERING

PUBLIC WATER SUPPLY WELL

TEST, OBSERVATION, MONITORING

OPEN LOOP GEOTHERMAL

CLOSED LOOP GEOTHERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13
COUNTY NAME COUNTY NO.

STATE SIGNATURE _____ INSERT S → 41

DATE ISSUED 07/24/20 [Signature] 07/21/21
43 MM DD YY 48 CO SIGNATURE EXP. DATE

DON: 8/13/20 DOG: 8/18/20 DOY: 9/16/2020

APPROXIMATE DEPTH OF WELL 300 FEET
24 28

APPROXIMATE DIAMETER OF WELL 6 INCH
NEAREST INCH

PROPOSED LOCATION OF WELL ON LOT
SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL

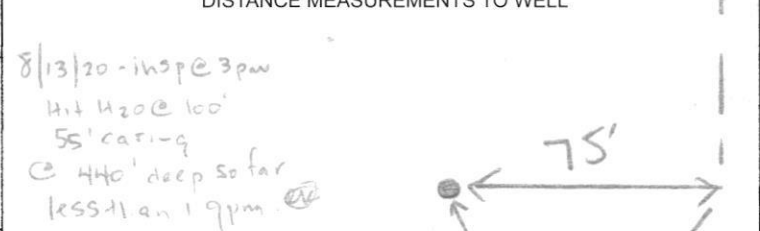
METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

30 AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary)

37 CABLE REVERSE-ROTary DRIVE-POINT

other _____



REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

THIS WELL WILL NOT REPLACE AN EXISTING WELL

THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

39 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52

8/18/20
500' total
100' liner
2 gpm

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. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or State Law.

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER 402017G002(01)

PERMIT No. 40-20-0025
70 71 72 73 74 75 76 77 78 79



MICHAEL BARLOW WELL DRILLING & SERVICE, INC.
 522 Underwood Lane Bel Air, Maryland 21014
 (410) 838-6910 Fax (410) 838-3582

WELL YIELD REPORT

Date Test Completed:	September 16, 2020		
Well Depth:	500	feet	
Customer	Heritage Land Development	Permit #	HO-20-0025
Road	Heritage Ridge Road	Subdivision	Linden Grove
City	Woodbine	Section	
State	MD	Lot #	31

Time	Water Level feet Pump set at 200'	Time to Fill 1-gallon bucket seconds	G.P.M.
10:00 AM	37	4	15.00
10:15 AM	150	30	2.00
10:30 AM	150	30	2.00
10:45 AM	150	30	2.00
11:00 AM	150	30	2.00
11:15 AM	150	30	2.00
11:30 AM	150	30	2.00
11:45 AM	150	30	2.00
12:00 PM	150	30	2.00
12:15 PM	150	30	2.00
12:30 PM	150	30	2.00
12:45 PM	150	30	2.00
1:00 PM	150	30	2.00
1:15 PM	149	30	2.00
1:30 PM	149	30	2.00
1:45 PM	149	30	2.00
2:00 PM	149	30	2.00
2:15 PM	149	30	2.00
2:30 PM	149	30	2.00
2:45 PM	149	30	2.00
3:00 PM	149	30	2.00
3:15 PM	149	30	2.00
3:30 PM	149	30	2.00
3:45 PM	148	30	2.00
4:00 PM	148	30	2.00
4:15 PM	148	30	2.00
4:30 PM	148	30	2.00
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.			

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: P.O. Box 63
Woodbine, Maryland 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): Dave C. Fogle License# MSD226

***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: Linden Grove Lot #: 31 Well Tag #: HO-20-0025 ✓
Site Address: 1445 Heritage Ridge Rd
Woodbine, MD 21797

Submersible Pump Data

Make: Goulds
Model #: SA510422
Pump Capacity: 5
Well Yield: 2

Pitless Adapter

Make: Campbell
Model#: N/A
GPM Depth: 36" (36" min)
GPM NSF/WSC approved: yes

Well Cap and Electric Conduit

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

Depth of well encountered at time of pump installation: 500 (feet)
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 arrestors / Cable guards / Other acceptable method used

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

Piping to house

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

House Connection

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

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: 11/18/2022

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

Date Insp. Requested: 11/9/22 Date Insp. Approved: 11/9/23 Inspector: SP/11/4 ✓
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade ✓
Two piece cap installed and attached to casing securely ✓
29" Elec. conduit extends at least 18" below grade/attached to cap properly ✓
Safety rope not outside of well cap/casing ✓
18" 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 ✓

(Revised form 10/24/2018)





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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – JULY 27, 2023

January 27, 2023

Homeowner
1445 Heritage Ridge Road
Woodbine, MD 21797

**RE: Linden Grove, Lot 31
1445 Heritage Ridge Rd
Building Permit: B21003105
Well Permit: HO-20-0025**

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 **12/12/2022**. Final approval of the well line connection to the dwelling was granted on **1/9/2023**. The well construction was completed on **9/16/2020**. Water samples were collected on **1/24/2023**.

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-20-0025. 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>



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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 Environments website which describes in further detail operation and maintenance of your septic system.

Approving Authority,

A handwritten signature in black ink, appearing to read 'Kevin M. Wolf', is written over a light blue horizontal line.

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: M. Barlow Well Drilling
522 Underwood Lane
Bel Air, MD 21014

FROM: Susan Thomas
Environmental Health Specialist
Howard County Health Department
Well & Septic Program

RE: Linden Grove Lots 24-37 & 39
Special Conditions for wells

DATE: July 21, 2020

The following comments apply to the above referenced Well Permit Applications. Please read through and complete as needed.

- A. The wells for the Linden Grove subdivision lots 24 thru 37 & 39 were staked with only one selected well site per the approved percolation certification plan signed 09/11/2018. If the well driller cannot confirm a successful well on this one well site, they will need to have the surveyor come back out and stake out the entire well box/alt well sites. This will need to be verified through the Health Department.**
- B. Lots 26, 30 & 36 will require samples for Sodium, Chloride and TDS to be collected at the time of the Yield Test.**



Howard County
Health Department

7178 Columbia Gateway Dr., Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

TO ALL INTERESTED PARTIES

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

Well Site Location:

Linden Grove	31	Heritage Ridge Rd.
<u>Subdivision/Property Name</u>	<u>Lot #</u>	<u>Road Name</u>

- The well site has been staked by Fisher, Collins & Carter,
(professional land surveyor or company employing professional land surveyors)
on 06/16/20 (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 #: 156936 Account #: 1933
Reference: Linden Grove Lot 31 Client: Fogle's Well Pump & Treatment
Location: 1445 Heritage Ridge Road Requested By: Dave Fogle
Woodbine, MD 21797 Source: Well Water
Date/ Time Collected: 1/24/2023 0945 Site: Pressure Tank
Date/Time Rec'd: 1/24/2023 1612 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.5
Collected By: J. Smith 2896JS Well #: HO-20-0025

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	1/25/2023 / 1020 / MEW
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	1/25/2023 / 1020 / MEW
Nitrate.	3.48	mg/L	10	EPA 300.0	1/24/2023 / 2202 / MEW
Turbidity	2.19	NTU	<10	SM2130B	1/24/2023 / 1626 / MEW
Sand	ND	mg/L	5	Visual/Gravimetric	1/24/2023 / 1630 / MEW

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; N/A: Not Available
- 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 # : B210003105

Date Reported: 1/25/2023