

C1 22856

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

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

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

MM DD YY 03 03 14

22 150 26 (TO NEAREST FOOT)

HO-95-2647

OWNER Viking Homes
WELL SITE ADDRESS 17415 Frederick Rd
SUBDIVISION Hazel Annis Prop SECTION LOT 2

WELL LOG

Not required for driven wells

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N)
TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC)
NO. OF BAGS 30 NO. OF POUNDS 180
GALLONS OF WATER 180
DEPTH OF GROUT SEAL (to nearest foot) from 0 to 80 ft.

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 3
PUMPING RATE (gal. per min.) 8.5
METHOD USED TO MEASURE PUMPING RATE Submersible
WATER LEVEL (distance from land surface) BEFORE PUMPING 20 ft. WHEN PUMPING 55 ft.
TYPE OF PUMP USED (for test) S submersible

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. Rows include Soil 0-6, Red clay 6-17, Brown shale 17-45, Gray rock 45-75, Soft gray rock 75-80, Gray rock 80-150.

CASING RECORD

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 80
OTHER CASING (if used) PL 4 1/2 inch diameter 70 to 100 depth (feet)

PUMP INSTALLED

DRILLER INSTALLED PUMP 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 to 35
PUMP HORSE POWER 37 to 41
PUMP COLUMN LENGTH (nearest ft.) 43 to 47
CASING HEIGHT (circle appropriate box and enter casing height) + above LAND SURFACE (nearest foot)

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...

DRILLERS LIC. NO. MWD 355

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. MS Dolela

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

C 2 DEPTH (nearest ft.)

PL 100 120
A 8 9 11 15 17 21
C 23 24 26 30 32 36
S 38 39 41 45 47 51
E 020 2 3
N DIAMETER OF SCREEN 4 1/2 (NEAREST INCH) 56 60

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 39.34849
LONGITUDE 77.11969
(DEFAULT COORD. WGS 84)
NOTES: Prop Line 30' 78'

0034

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-95-2647

please type

fill in this form completely

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13
Viking Homes
15 Last Name Owner First Name 34
815 Windriver Drive
36 Street or RFD 55
Sykesville MD 21784
57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

Howard
8 COUNTY 21
Prop of Hazel Annis
23 SUBDIVISION 42
SECTION 44 46 LOT 2 48 50
Mt Airy
52 NEAREST TOWN 71

DRILLER INFORMATION

Michael Barton MW D 355
Driller's Name 76 License No. 81
Barton Well Drilling
Firm Name
522 Underwood Lane 21014
Address
Signature Date 1/22/14

B 4

SOURCES OF DRILLING WATER

1. Well
2.
3.

17415 Frederick Road
11 STREET ADDRESS 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 400 37 DISTANCE FROM ROAD
ENTER FT OR MI 38 39

TAX MAP: 7 BLK: 1 PARCEL 349

B 2

WELL INFORMATION

1 2 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)

- D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
I INDUSTRIAL, COMMERCIAL, DEWATERING
P PUBLIC WATER SUPPLY WELL
T TEST, OBSERVATION, MONITORING
O OPEN LOOP GEOTHERMAL
C 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 2/21/14
CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 250 FEET
24 28

APPROXIMATE DIAMETER OF WELL 6 INCH
NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
37 CABLE REVerse-ROTary DRive-POINT
other

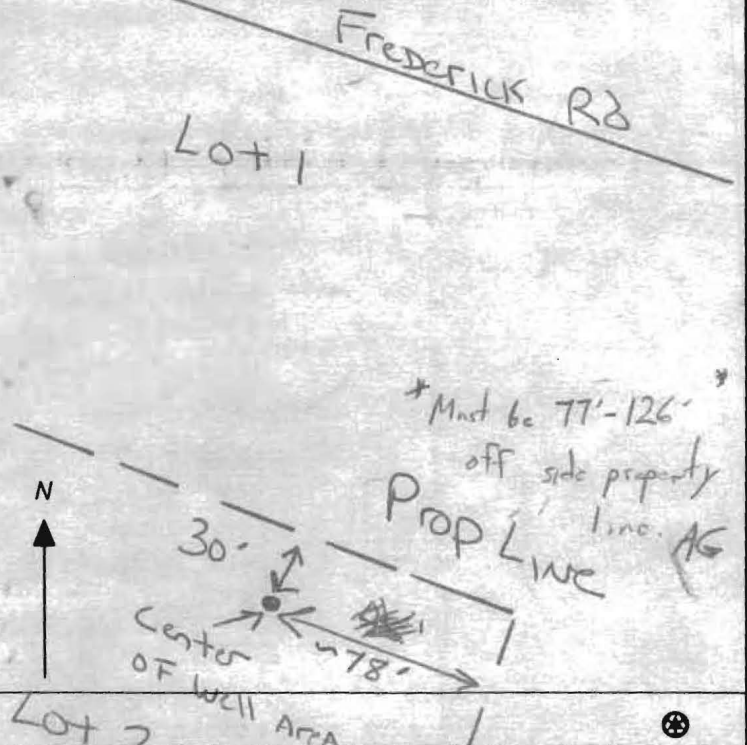
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
39 S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
D THIS WELL WILL DEEPEM AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

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

APPROP. PERMIT NUMBER G
PERMIT No. HO-95-2647
70 71 72 73 74 75 76 77 78 79

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



SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



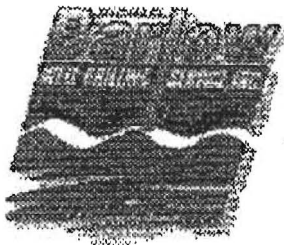
MICHAEL BARLOW WELL DRILLING & SERVICE, INC.
522 Underwood Lane **Bel Air, Maryland 21014**
(410) 838-6910 **Fax (410) 838-3582**

WELL YIELD REPORT

Date Test Completed:	February 25, 2013
Well Depth:	150 feet
Customer	Viking Custom Homes
Road	17415 Frederick Road
City	Mt. Airy
State	Maryland
Permit #	HO-95-2647
Subdivision	Hazel Annis Property
Section	
Lot #	2

Time	Water Level feet	Time to Fill 1-gallon bucket seconds	G.P.M.
9:30 AM	20	4	15.00
9:45 AM	55	7	8.57
10:00 AM	55	7	8.57
10:15 AM	55	7	8.57
10:30 AM	55	7	8.57
10:45 AM	55	7	8.57
11:00 AM	55	7	8.57
11:15 AM	55	7	8.57
11:30 AM	55	7	8.57
11:45 AM	55	7	8.57
12:00 PM	55	7	8.57
12:15 PM	55	7	8.57
12:30 PM	55	7	8.57

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.



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City <u>Mt. Airy</u>	Section _____
State <u>Maryland</u>	Lot # <u>2</u>

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HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WELL & SEPTIC PROGRAM
TEL: (410)313-1771 FAX: (410)313-2648

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: Hughes Plumbing Service Telephone #: 443-344-7794
Address: 1100 Western Chapel Rd
New Windsor MD 21776

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Daniel Hughes License# 23837

*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: Matt + Lisa Martin Telephone #: 301-706-2583
Subdivision: Calverton Property Lot #: 2 Well Tag #: HO-95-272647 ✓
Site Address: 17415 Frederick Rd
New Army MD 21771 2647

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Model#: Two piece watertight cap:
Model #: Model#: Screened, vented well cap:
Pump Capacity GPM Depth: 36" (36" min) Cap secured to casing:
Well Yield: GPM NSF/WSC approved: Conduit min 18" B.G.:
Depth of well encountered at time of pump installation: (feet) Conduit secured to well cap:
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors, Cable guards, or other acceptable method used- Must circle one
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing

Piping to house House Connection
Type: Poly PVC sleeve to undisturbed soil at wall penetration:
PSI: 160 (160 psi min) Length of sleeve (5' minimum from foundation): 10'
Depth of supply line: 36" (36" min) Sleeve sealed properly:

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: Daniel Hughes date: 3-24-16

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

Date Insp. Requested: 3/28/16 Date Insp. Approved: 4/4/16 Inspector: SC
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

hit with probe

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 107701 Account #: 4226
Reference: Martin Company: Viking Development Corporation
Location: 17415 Frederick Road Requested By: Cary Cumberland
Mount Airy, MD 21771 Source: Well Water
Date/ Time Collected: 6/2/2016 0845 Site: Pressure Tank
Date/Time Rec'd: 6/2/2016 1230 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 5.7
Collected By: J. Yeager 6176JY Well #: HO-95-2647

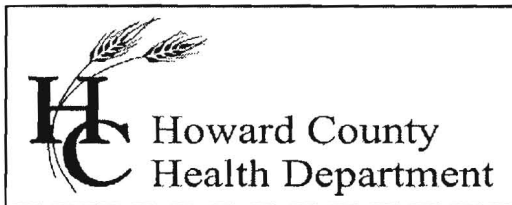
PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	6/3/2016 / 0800 / LLO
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	6/3/2016 / 0800 / LLO
Nitrate	2.79	mg/L	10	601	6/2/2016 / 1620 / CRS
Turbidity	0.75	NTU	<10	SM18 2130B	6/2/2016 / 1630 / CRS
Sand	NS	mg/L	5	Visual/Gravimetric	6/2/2016 / 1630 / CRS

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 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH & Chlorine level tested on site

Reason for Test : Use & Occupancy
Building Permit # : B15005029

Date Reported: 6/3/2016



Bureau of Environmental Health

8930 Stanford Blvd., 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

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – DECEMBER 10, 2016

June 10, 2016

Homeowner
17415 Frederick Road
Mr. Airy, MD 21771

**RE: Colleianne Property, Lot 2
17415 Frederick Road
Building Permit: B15005029
Well Permit: HO-95-2647**

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 **3/28/2016**. Final approval of the well line connection to the dwelling was granted on **4/4/2016**. The well construction was completed on **3/3/2014**. Water samples were collected on **6/2/2016**.

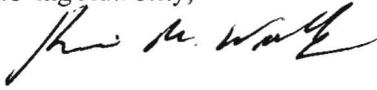
The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-2647. 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>

In closing, please refer to our "Homeowner Fact Sheet" which illustrates a better understanding for your Best Available Technology (BAT). You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your BAT.

Approving Authority,

A handwritten signature in black ink, appearing to read "Kevin M. Wolf". The signature is written in a cursive style with a large initial "K" and "W".

Kevin M. Wolf, L.E.H.S., REHS/RS, Supervisor
Groundwater Management Section
Well & Septic Program

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

KAY WARD
TAX MAP 2, GRID 19, PARCEL 100
13115/93

HAZEL P. ANNIS
TAX MAP 7, GRID 1, PARCEL 349
12511/95, 2ND PARCEL

FREDERICK ROAD
ROUTE 7144

LOT 25

LOT 1
3.0 AC.

GgC

ESTIMATED LIMIT
OF SEPTIC TRENCH(ES)

APPROX. LOCATION
OF SEPTIC LID

APPROX. LOCATION
OF EX. WELL

732

LOT 2
3.0 AC.

GgB

STAKES SET AT
ALL 4 CORNERS

WHITE WOOD ESTATES
PLATS #8243-7

730

728

726

724

706

LOT 24

722

718

APPROX. LOCATION
OF EX. WELL

708

708

706

STELLAS CHOICE
PLAT #12105
PRESERVATION PARCEL A

APPROX. LOCATION
OF EX. WELL

LOT 23

706

706

704

PROPOSED LOTS 1 & 2
PROPERTY OF HAZEL P. ANNIS
TITLE DEED: 112511/95, SECOND PARCEL
TAX MAP 7, GRID 1, PARCEL 349
4TH ELECTION DISTRICT, HOWARD COUNTY, MD.
SCALE: 1" = 100' DATE: 2/14/2012
REV. 2/29/12

**MICHAEL BARLOW WELL DRILLING
522 UNDERWOOD LANE
BEL AIR, MD 21014
410-838-6910**

FAX TRANSMITTAL FORM

DATE: 2/20/14

TO: Andrew Geisert

COMPANY NAME:

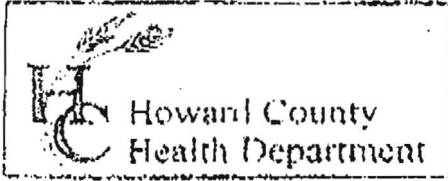
FAX NUMBER: 410-313-2648

RE: Hazel Annis Property lot 2

Number of Pages including cover: 2

Message: the well area for lot 2 has been staked. If possible, I would like to drill the well next week. Please let me know if that would be a possibility.

Mike Isom



3525 H Ellicott Mills Drive, Ellicott City, MD 21043
 (410) 313-2640 Fax (410) 313-2648
 TDD (410) 313-2323 Toll Free 1-866-313-6300
 website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., 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: HAZEL Annis Property LOT 2

- The well site has been staked by Shanaberg & Lane
 (professional land surveyor or company employing professional land surveyors)
 on 2/12/14 (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.

Revised 6/10/03