

C1 5198

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 Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO - 95 - 1277

OWNER Brantly Development, STREET OR RFD Lime Kiln Road, TOWN Fulton, SUBDIVISION Lime Kiln Valley, SECTION, LOT 28

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, FEET (FROM, TO), check if water bearing. Rows include Soil, Brown Shale, Soft Shale, Gray Rock, and water at 241'.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N), TYPE OF GROUTING MATERIAL (CEMENT, BENTONITE CLAY), NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL

CASING RECORD

casings types insert appropriate code below (ST, CO, PL, OT), MAIN CASING TYPE (PL), Nominal diameter top (main) casing, Total depth of main casing

OTHER CASING (if used)

Table for OTHER CASING with columns: diameter inch, depth (feet) from, to

SCREEN RECORD

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

DEPTH (nearest ft.)

Table for DEPTH with columns: 1-3, 4-6, 7-9, 10-12, 13-15, 16-18, 19-21, 22-24, 25-27, 28-30, 31-33, 34-36, 37-39, 40-42, 43-45, 46-48, 49-51

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) T (E.R.O.S.) W Q

70, 72, TELESCOPE CASING, LOG INDICATOR, OTHER DATA

C 3

PUMPING TEST

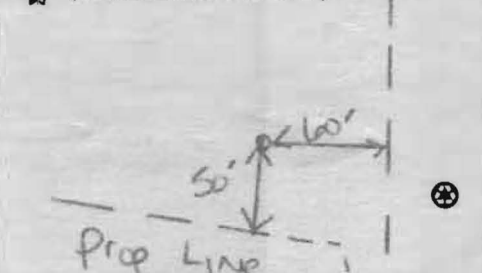
HOURS PUMPED (nearest hour) 3, PUMPING RATE (gal. per min.) 17.64, METHOD USED TO MEASURE PUMPING RATE Submersible, WATER LEVEL (distance from land surface) BEFORE PUMPING 62 ft, WHEN PUMPING 74 ft, TYPE OF PUMP USED (for test) S submersible

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) 31-35, PUMP HORSE POWER 37-41, PUMP COLUMN LENGTH (nearest ft.) 43-47, CASING HEIGHT (circle appropriate box and enter casing height) + above, - below, LAND SURFACE (nearest foot)

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



B 1 9852

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

40-95-1277 fill in this form completely

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13

Brantly Development

15 Last Name Owner First Name 34

8835 N. Columbia 100 Pkwy

36 Street or RFD 55

Columbia MD 21045

57 Town 70 State 72 Zip 76

DRILLER INFORMATION

Michael D. Isom M S D 162

Driller's Name 76 License No. 81

G. Edgar Harr Sons Corp

Firm Name

12047 Falls Road Cockeysville 21030

Address

Signature 6/11/07 Date

B 2

WELL INFORMATION

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

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 750

B 3

LOCATION OF WELL

Howard 8 COUNTY 21

Lime Kiln Valley 23 SUBDIVISION 42

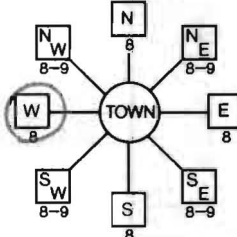
SECTION 44 46 LOT 28 48 50

Fulton 52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 1 M I 73 76 77 78

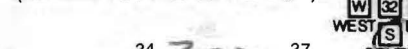
B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Lime Kiln Road 11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 300 37 DISTANCE FROM ROAD 38 39

ENTER FT OR MI

TAX MAP: 40 BLK: 22 PARCEL 114

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
G GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard AS19589 COUNTY NAME COUNTY NO.

STATE SIGNATURE INSERT S

DATE ISSUED 9/26/07 9/25/08

43 MM DD YY 48 CO SIGNATURE 811 EXP. DATE NORTH GRID 483 000 EAST GRID 811 000 50 55 57 63

APPROXIMATE DEPTH OF WELL 250 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
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
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

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

APPROX. PERMIT NUMBER 402004 G 013(02)

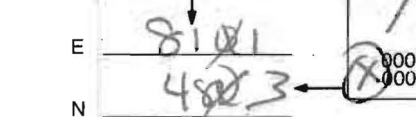
PERMIT No. 40-95-1277

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

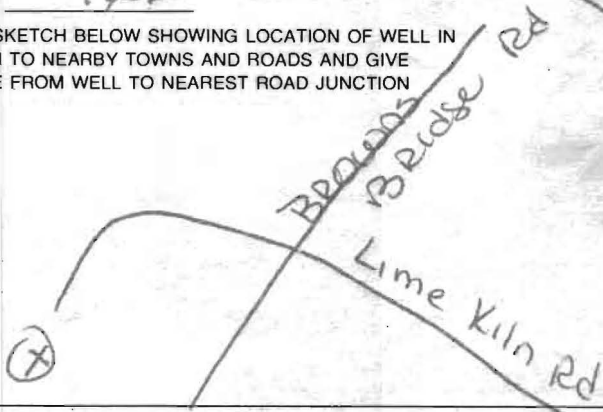
- 1. well
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE



DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION

N



SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

HARR WELL DRILLING

12047 FALLS ROAD
COCKEYSVILLE, MD 21030
410-252-4588

HOWARD COUNTY WELL YIELD TEST REPORT

Date Test Performed: 11-07-07
Address: Lime Kiln Road
Owner: Brantly Development
Well Depth: 300 Ft

Permit Number: HO-95-1277
Subdivision: Lime Kiln Valley L#28
Election District:
Static Water Level: 62 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 5gallon bucket	Calculated Flow-Gallons Per Minute
1330	62 ft		17 sec	17.64
1345	74		17	17.64
1400	74		17	17.64
1415	74		17	17.64
1430	74		17	17.64
1445	74		17	17.64
1500	74		17	17.64
1515	74		17	17.64
1530	74		17	17.64
1545	74		17	17.64
1600	74		17	17.64
1615	74		17	17.64
1630	74		17	17.64

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 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: _____ Telephone #: _____
Address: _____

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer

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

Name (Print): _____ License# _____

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

Name of Property Owner: _____ Telephone #: _____
Subdivision: _____ Lot #: 28 Well Tag #: HO-95-1277
Site Address: 12913 Lime Ridge Rd.

Submersible Pump Data

Make: _____
Model #: _____
Pump Capacity _____ GPM
Well Yield: _____ GPM

Pitless Adapter

Make: _____
Model#: _____
Depth: _____ (36" min)
NSF approved: _____

Well Cap and Electric Conduit

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

Depth of well encountered at time of pump installation: _____ (feet)
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors or Cable guards are required - Must circle one

Safety rope, if used, attached to inside of well casing with eye bolt _____

Piping to house

Type: _____
PSI: _____ (160 psi min)
Depth of supply line: _____ (36" min)

House Connection

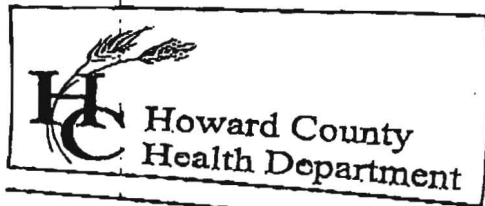
PVC sleeved to undisturbed soil at wall penetration: _____
Approximate length of sleeve: _____
Sleeve caulked and sealed properly: _____

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 _____ date _____

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

Date Insp. Requested: 11/3/11 Date Insp. Approved: 12/16/11 OK 10/11/3/2011 (B13)
Inspection Data: Pitless adapter and 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 ✓ No Cap Bolts OK
Safety rope installed inside of well 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 ✓



7178 Columbia Gateway Drive, Columbia, MD 21046
 (410) 313-2640 Fax (410) 313-2640
 TDD (410) 313-2323 Toll Free 1-866-313-2640
 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:

Well Site Location:

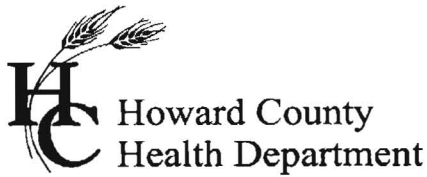
Subdivision/Property Name	Lot#	Road Name
Lime KILN VALLEY	1-39	Lime KILN VALLEY

The well site ^{sites} has been staked by Robert Vogel Inc
 (professional land surveyor or company employing professional land surveyors)
 on 7/24/07 (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 3/11/05



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

Peter L. Beilenson, M.D., M.P.H., Health Officer

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – July 4th, 2012

January 4th, 2012

Homeowner
12913 Lime Kiln Road
Highland, MD 20777

**RE: Lime Kiln Valley, Lot 28
12913 Lime Kiln Road
Building Permit: B11001509
Well Permit: HO-95-1277**

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 **11/1/11**. Final approval of the well line connection to the dwelling was granted on **12/6/11**. The well construction was completed on **10/25/07**. Water samples were collected on **12/21/11**.

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-95-1277. 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>

Approving Authority,

Heidi Scott, R.S.
Environmental Sanitarian
Well & Septic Program

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

Dec. 28. 2011 9:19AM

FREDERICKTOWNE LABS

No. 1602 P. 2



Fredericktowne Labs Inc.

ENVIRONMENTAL TESTING

302D Venture Court • P.O. BOX 845 • Myersville, MD 21775 • 800-832-8240 • FAX 301-238-2366
 www.fredericktownelabs.com • info@fredericktownelabs.com

Certificate of Analysis

Acct. No. 3948 - 682-1

Field Record

Site visit performed on: Wednesday, December 21, 2011 11:32 AM
 by: Kevin Kretzer State ID No. 1511KK
 Affiliation: Tri-County Pump Service
 Property Owner: Craftmark Homes
 Property Address: 12913 Lime Kiln Rd, Lot 23
 Highland, MD
 Sample Source: Powder Room Faucet
 Field pH: 6.7
 Res. Cl.: <0.1 mg/l

Laboratory Report

Sample Received at laboratory: 12/21/2011 2:12 PM

Bacteriological results:

Total Colif. (/100ml)	E.coli.(/100ml)	Start		End		Method	Analyst
		Date	Time	Date	Time		
<1	<1	12/21/11	14:45	12/22/11	08:45	9223B	JD

Bacteriological analysis of this sample indicates the water is safe for human consumption and meets state and local requirements. Analysis was performed according to the 20th edition of Standard Methods

Inorganic Chemical results:

Parameter	Result Units	MCL	Date of Analysis	Method	Analyst
Nitrate-Nitrogen	1.3 mg/l	10	12/21/2011	300.0	PH
Sand	<2 mg/l	5	12/21/2011	0.065mm Filter	JD
Turbidity	1.1 NTU	10	12/21/2011	180.1	KB

Reported by:

Kevin Kretzer 12/28/11
 Name Date

Fredericktowne Labs, Inc. is a State Certified Water Quality Laboratory
 Maryland Cert. No. 116 Virginia Cert. No. 00444
 MDOT WBE Cert. No.: 91-158

12/27/2011 5:03:24 PM



Fredericktowne Labs Inc.

ENVIRONMENTAL TESTING

3020 Ventile Court • P.O. BOX 248 • Myersville, MD 21773 • 800-332-8840 • FAX 501-293-2388
 www.fredericktownelabs.com • info@fredericktownelabs.com

Certificate of Analysis

Acct. No. 3948 - 678-1

Field Record

Site visit performed on: Friday, December 09, 2011 9:45 AM
 by: Kevin Kretzer State ID No. 1511KK
 Affiliation: Tri-County Pump Service
 Property Owner: Craftmark
 Property Address: 12913 Lime Kiln Rd, Lot 28
 Highland, MD
 Sample Source: Kitchen Sink
 Treatment Devices Noted: No Treatment Devices
 Sample taken after treatment: No
 Well No.: HO-95-1277
 Field pH: 7.2
 Res. Cl.: <0.1 mg/l

Laboratory Report

Sample Received at laboratory: 12/9/2011 2:20 PM

Bacteriological results:

Total Colif. (/100ml)	F.coli. (/100ml)	Start		End		Method	Analyst
		Date	Time	Date	Time		
<1	<1	12/09/11	15:00	12/10/11	16:27	9223B	MM

Bacteriological analysis of this sample indicates the water is safe for human consumption and meets state and local requirements. Analysis was performed according to the 20th edition of Standard Methods

Inorganic Chemical results:

Parameter	Result	Units	MCL	Date of Analysis	Method	Analyst
Nitrate-Nitrogen	1.2	mg/l	10	12/9/2011	300.0	PH
Sand	<2	mg/l	5	12/13/2011	0.065mm Filter	PH
Turbidity	0.2	NTU	10	12/9/2011	180.1	KB

Reported by:

Paul Staley 12/13/11
 Name Date

*vcb
 OK 12/13/11
 page 1 of 2*

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 Maryland Cert. No. 116 Virginia Cert. No. 00444
 MDOT WBE Cert. No.: 91-138



Fredericktowne Labs Inc.

ENVIRONMENTAL TESTING

3020 Vantre Court • P.O. BOX 245 • Myersville, MD 21778 • 800-388-5840 • FAX 301-298-8388
 www.fredericktownelabs.com • info@fredericktownelabs.com

Analysis Results

Account No.: 3948 - 678-1

Craftmark
 12913 Lime Kiln Rd, Lot 28
 Highland, MD

Date Received: Friday, December 09, 2011
 Collected By: Kevin Kretzer - State ID#1511KK
 Tri-County Pump Service
 Date Reported: Tuesday, December 13, 2011

Matrix: Drinking Water

Lab#	Parameter	Result	Limit of Detection	Method	Start Date	Start Time	End Date	End Time	Analyst
3948-678-1-1	Total Coliforms	<1 /100ml	1 /100ml	9223B	12/09/11	18:00	12/10/11	18:27	MM
3948-678-1-1	E. Coli	<1 /100ml	1 /100ml	9223B	12/09/11	18:00	12/10/11	18:27	MM
3948-678-1-2	Nitrate-Nitrogen	1.2 mg/l	0.2 mg/l	300.0	12/09/11	18:48	12/09/11	18:08	PH
3948-678-1-2	Sand	<2 mg/l	2 mg/l	0.065mm Filter	12/13/11	09:30	12/13/11	12:15	PH
3948-678-1-2	Turbidity	0.2 NTU's	0.1 NTU's	180.1	12/09/11	15:25	12/09/11	15:25	KB

Notes:

1. mg/l stands for milligrams per liter and is nearly synonymous with parts per million
 ug/l stands for micrograms per liter and is nearly synonymous with parts per billion
2. < stands for "less than" and indicates that the component in question was not detected (i.e. was less than the detection limit)
3. All analyses performed using EPA accepted methods in accordance with Title 40 Code of Federal Regulations Part 141 & 143. Method references: (1) Methods for the Chemical Analysis of Water & Wastewater EPA-600/4-79-020, (2) Standard Methods for the Examination of Water & Wastewater - AWWA 18th ed.
4. "(*)" denotes an analysis that was subcontracted to a State of Maryland approved lab.
5. Information concerning field pH and chlorine for bacteriological samples may be found on the chain of custody form.

Handwritten notes:
 'OK' 12/19/11
 page 2 of 2

Verified by: Gloria Phelps 12/13/11
 M. L. Miller, Ph.D.
 Laboratory Director

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 MDOT WBE Cert. No.: 91-158