

C1 5183 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 MM DD YY

DATE WELL COMPLETED MM DD YY 10 12 2007

Depth of Well 22 400 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO 95 1284

OWNER Brantly Development last name first name TOWN Fulton STREET OR RFD Lime Kiln Road SUBDIVISION Lime Kiln Valley SECTION LOT 35

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: Soil (0-10), Brown Shale (10-40), Gray Rock (40-400). Note: water at 310'

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (C) (M) (B) (C) NO. OF BAGS 11 NO. OF POUNDS 1100 GALLONS OF WATER 66 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 43 ft.

CASING RECORD

MAIN CASING TYPE (P) (L) (S) (T) (C) (O) (R) (J) (S) Nominal diameter top (main) casing (nearest inch)! Total depth of main casing (nearest foot) 60 61 63 64 66 70

OTHER CASING (if used)

Table for other casing with columns: diameter inch, depth (feet) from, to

SCREEN RECORD

screen type or open hole (S) (T) (B) (R) (H) (O) (P) (L) (O) (T) (I) (N) insert appropriate code below

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y) (N)

CIRCLE APPROPRIATE LETTER 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 S D 162

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. AW D766

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

C 2 DEPTH (nearest ft.)

Table for depth measurements with columns: 8, 9, 11, 15, 17, 21, 23, 24, 26, 30, 32, 36, 38, 39, 41, 45, 47, 51. Includes slot size and diameter of screen.

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

C 3

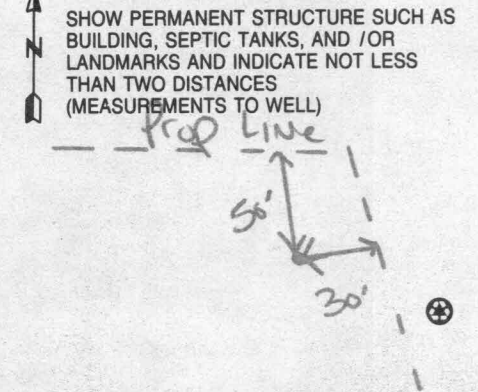
PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 11.11 METHOD USED TO MEASURE PUMPING RATE Submersible WATER LEVEL (distance from land surface) BEFORE PUMPING 65 ft. WHEN PUMPING 260 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 LAND SURFACE (-) below (nearest foot) 49 50 51

LOCATION OF WELL ON LOT



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

B 3 **LOCATION OF WELL**

Howard  
 8 COUNTY 21  
Lime Kiln Valley  
 23 SUBDIVISION 42  
 SECTION 35 LOT 48 50  
 44 46 48 50  
Fulton  
 52 NEAREST TOWN 71  
 MILES FROM TOWN (enter 0 if in town) 1 M I  
 73 76 77 78

**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  
6/11/07  
 Signature Date

B 4

1 2  
 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

Lime Kiln Road  
 11 NEAR WHAT ROAD 30  
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
 NORTH  
 WEST EAST  
 SOUTH  
 34 300 37  
 DISTANCE FROM ROAD FT  
 ENTER FT OR MI 38 39  
 TAX MAP: 45 BLK: 4 PARCEL 12

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)

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 COUNTY NAME 9519584 COUNTY NO.  
 STATE SIGNATURE INSERT S →  
 DATE ISSUED 10/2/07 41  
 CO SIGNATURE [Signature] EXP. DATE 10/2/08  
 43 MM DD YY 48  
 NORTH GRID 482 000 EAST GRID 811 000  
 50 55 57 63

APPROXIMATE DEPTH OF WELL 250 FEET  
 24 28  
 APPROXIMATE DIAMETER OF WELL 6 INCH  
 NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

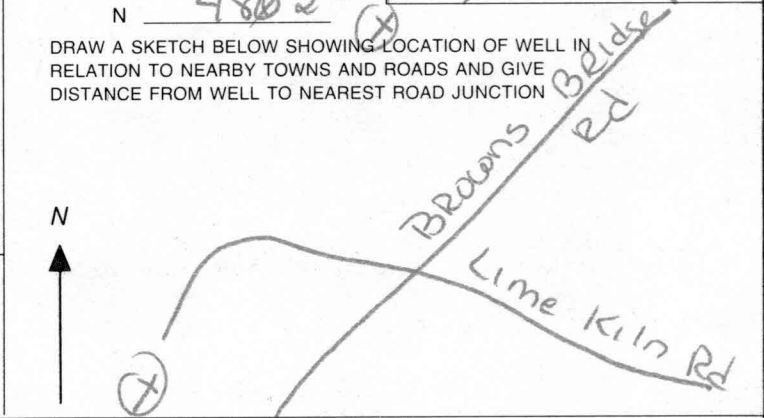
SOURCES OF DRILLING WATER  
 1. well  
 2.  
 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 8101  
 N 4802

**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 DEEPEINED 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 DEEPEIN AN EXISTING WELL  
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 \_\_\_\_\_ 52

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

APPROP. PERMIT NUMBER HO2004 G013(02)  
 PERMIT No. HO-95-1284  
 70 71 72 73 74 75 76 77 78 79

**HARR WELL DRILLING**  
 12047 FALLS ROAD  
 COCKEYSVILLE, MD 21030  
 410-252-4588

**HOWARD COUNTY WELL YIELD TEST REPORT**

Date Test Performed: 10-11-07	Permit Number: HO-95-1284
Address: Lime Kiln Road	Subdivision: Lime Kiln Valley L#35
Owner Name: Brantly Development	Election District:
Well Depth: 400 Ft	Static Water Level: 65 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 5gallon bucket	Calculated Flow-Gallons Per Minute
1200	65 ft		17 sec	17.64
1215	80		17	17.64
1230	170		20	15.00
1245	211		22	13.63
1300	242		22	13.63
1315	260		27	11.11
1330	260		27	11.11
1345	260		27	11.11
1400	260		27	11.11
1415	260		27	11.11
1430	260		27	11.11
1445	260		27	11.11
1500	260		27	11.11

**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: Robert L. Feezer Co., Inc. Telephone #: 410-781-4655  
Address: 6321 Barnett Avenue  
Sykesville, MD 21784

(Must circle one) Licensed Plumber      Licensed Well Driller      Licensed Well Pump Installer  
License # and name of individual responsible for the field installation:  
Name (Print): Robert L. Feezer License# 2122

**\*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: NV Homes Telephone #: 410-379-5956  
Subdivision: Maple Woods Lot #: 35 Well Tag #: HO - 95 - 1284  
Site Address: 12860 Lime Kiln Road  
Highland, MD 20777

**Submersible Pump Data**

Make: Berkeley  
Model #: B7P4MS07221  
Pump Capacity 7 GPM  
Well Yield: 11.1 GPM

**Pitless Adapter**

Make: Campbell  
Model#: PT800  
Depth: 42" (36" min)  
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

Depth of well encountered at time of pump installation: 400 (feet) Conduit secured to well cap: Yes

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 N/A**

**Piping to house**

Type: Poly  
PSI: 200 (160 psi min)  
Depth of supply line: 42" (36" min)

**House Connection**

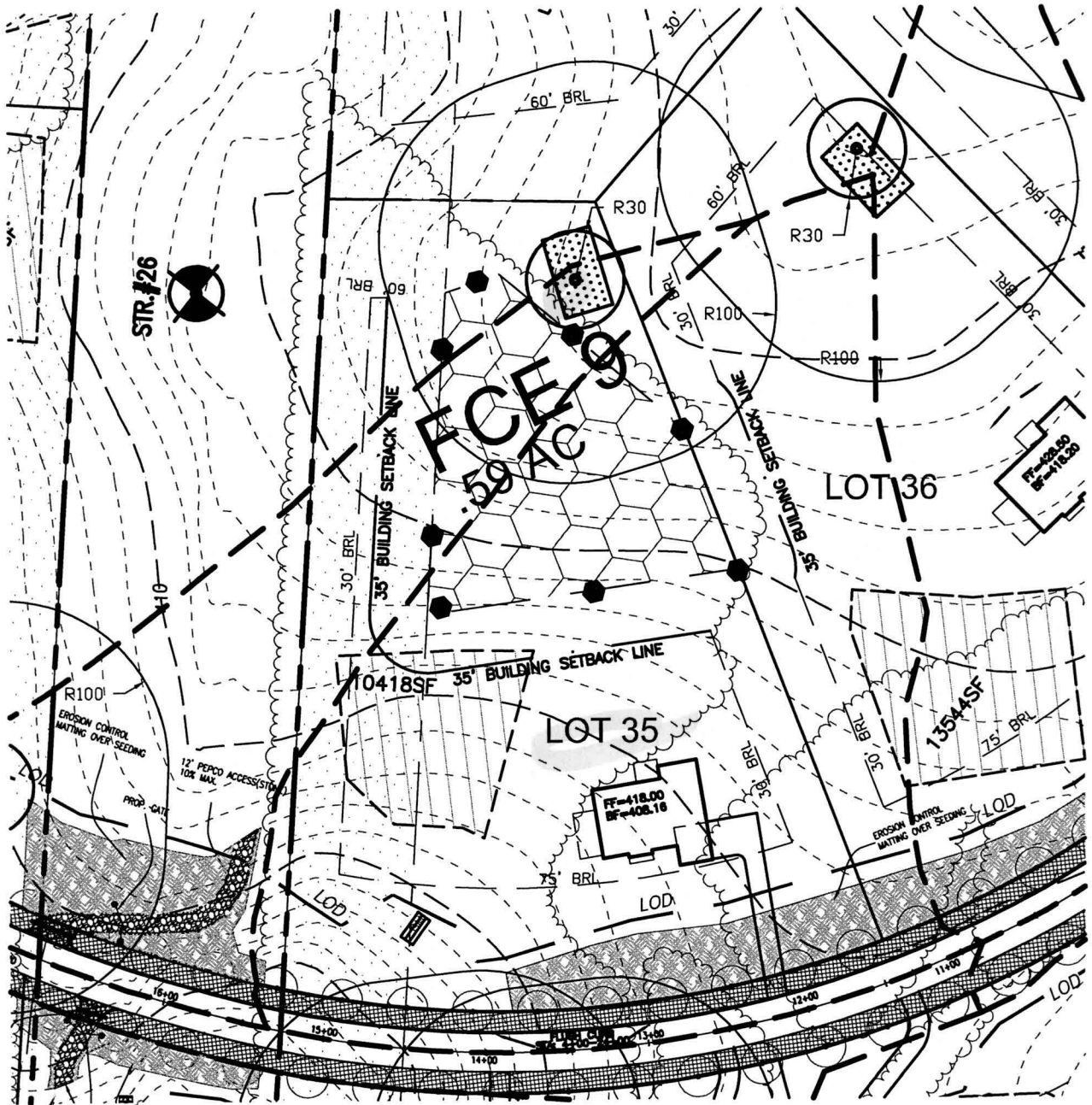
PVC sleeve to undisturbed soil at wall penetration: Yes  
Length of sleeve(5' minimum from foundation): 10'  
Sleeve sealed properly: Yes

**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.**

Robert L. Feezer Digitally signed by Robert L. Feezer  
DN: cn=Robert L. Feezer, o=Howard County Health Department, email=rlf@hchealth.com, c=US  
Date: 2012.01.26 14:29:13 -0500 January 26, 2012  
Signature of company representative responsible for installation date

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



Date Insp. Requested: \_\_\_\_\_ Date Insp. Approved: 3/14/12 Inspector: (KW)  
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 ✓



9/25/07 well site OK *(signature)*

SCALE: 1"=100'

**VA** **ROBERT H. VOGEL**  
**ENGINEERING, INC.**  
 ENGINEERS • SURVEYORS • PLANNERS  
 8407 MAIN STREET TEL: 410.461.7666  
 ELLICOTT CITY, MD 21043 FAX: 410.461.8961

WELL PLAT LEGEND	
	SEPTIC EASEMENT
	PROPOSED WELL AREA

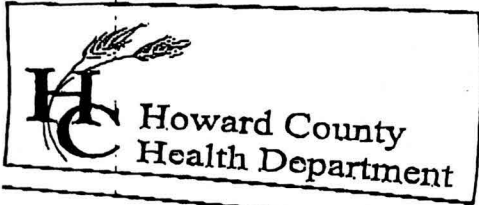
SCALE: \_\_\_\_\_ AS SHOWN  
 DRAWN BY: \_\_\_\_\_ JCO  
 CHECKED BY: \_\_\_\_\_ RHV  
 DATE: \_\_\_\_\_ JUNE 2007  
 PROJECT NO.: \_\_\_\_\_ 04-21  
 SHEET NO. \_\_\_\_\_ 1 OF 1

**LIME KILN VALLEY II**  
**PHASE 1 & 2 (LOT 35)**

**PROPOSED WELL LOCATION EXHIBIT**

TAX MAP 40 & 45  
 5TH ELECTION DISTRICT

PARCEL 114 & 12  
 HOWARD COUNTY, MARYLAND



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:

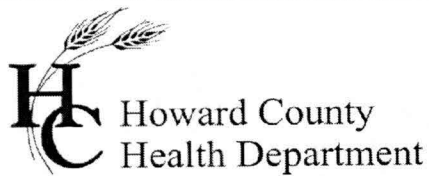
Well Site Location:  
 Lime Kiln Valley 1-39 Lime Kiln Valley  
 Subdivision/Property Name Lot# Road Name

The well site <sup>Sites</sup> 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 – October 3, 2012**

April 3, 2012

Homeowner  
12860 Lime Kiln Road  
Highland, Maryland, 20770

**RE: Lime Kiln Valley II, Lot 35  
12860 Lime Kiln Road  
Building Permit: B11003667  
Well Permit: HO-95-1284**

Dear Homeowner:

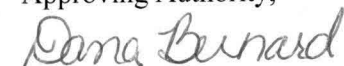
This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **03/30/12**. Final approval of the well line connection to the dwelling was granted on **03/14/12**. The well construction was completed on **10/12/07**. Water samples were collected on **03/27/12**.

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-95-1284. 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,

  
Dana Bernard, REHS/RS  
Environmental Sanitarian  
Well & Septic Program

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

# Water Testing Laboratories

P.O. Box 712  
Stevensville, MD 21666  
410-643-7711

of Maryland, Inc.

N V Homes  
c/o Feezer Co.  
6321 Barnett Avenue  
Sykesville, MD 21784

Reporting Date: 3/30/2012  
Report #: K8187

Submitted Sample Address: Maple Woods  
Lot 35, 12860 Lime Kilm Road  
Highland, MD 20770  
Submitted Sample Source: Holding tank  
Date / Time Collected: 3/27/2012 9:01 AM *DRB 4-3-12*  
Sample Type: Drinking Water  
Sampler/Company: D. Pitts 4322DP, WTL of MD  
Field Record: Chlorine residual: Absent Clear when drawn  
Well #: HO-95-1284

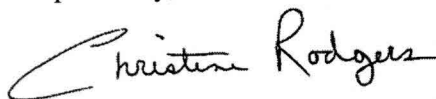
## Analytical Results

Parameter	Result	Units	Report Limit	MCL	Analytical Method
Total Coliforms	<b>Absent</b>	Coliforms/100 ml	Present/Absent	Present	SM 9223B
<i>E. Coli</i>	<b>Absent</b>	Coliforms/100 ml	Present/Absent	Present	SM 9223B
Nitrates + Nitrites	<b>2.4</b>	mg/L	1.0	10	EPA 353.2
Sand	<b>Absent</b>	P/A	Present/Absent	Present	Visual
Turbidity	<b>0.6</b>	NTU	0.5	10	SM 2130B
pH	<b>6.6</b>	SU	0.1	6.5-8.5 (SMCL)	SM 4500 H <sup>+</sup> B

### Notes:

- Bacteriological analysis of this sample indicates this water is **safe** for human consumption.
- MCL is EPA's maximum contaminant level under primary drinking water regulations. SMCL is secondary maximum contaminant level and is the aesthetic quality only. If your result is above any MCL or SMCL, you may want to consider a water treatment system or a new well. Please check your local regulations for any restrictions or additional limits.
- ND - Not Detected.
- Sample received and examined within EPA's recommended holding time
- Analyzed by Lab 214.
- SM - Greenberg, Clesceri and Eaton, *Standard Methods for the Examination of Water and Wastewater*, 21<sup>st</sup> Ed.

Reported by,



C. Rodgers, Customer Service Representative

Reviewed by:

