

C1 5190

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 10 19 2007

Depth of Well 450 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO - 95 - 1280

OWNER Brantly Development, STREET OR RFD Lime Kiln Road, TOWN Fulton, SUBDIVISION Lime Kiln Valley, SECTION, LOT 31

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Soil, Brown Shale, Soft Shale, Gray Rock, and water at 230' & 425'.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (Cement CM, Bentonite Clay BC), NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD: casing types insert appropriate code below (PL), MAIN CASING TYPE (PL), Nominal diameter top (main) casing (6), Total depth of main casing (50).

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

SCREEN RECORD: screen type or open hole (insert appropriate code below: HO), SCREEN RECORD (HO, BR, PL, OT).

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y)

CIRCLE APPROPRIATE LETTER: A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

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 SD 162

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

DEPTH (nearest ft.) table with columns 1-21 and rows A, H, S, R, E, N. Includes slot size and diameter of screen information.

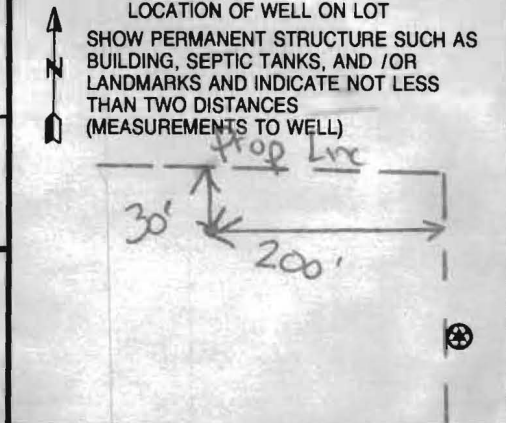
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

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

TELESCOPE CASING, LOG INDICATOR, OTHER DATA

PUMPING TEST: HOURS PUMPED (6), PUMPING RATE (1.71), METHOD USED TO MEASURE PUMPING RATE (Submersible), WATER LEVEL (distance from land surface) BEFORE PUMPING (64), WHEN PUMPING (305), TYPE OF PUMP USED (S submersible).

PUMP INSTALLED: DRILLER INSTALLED PUMP (YES), 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 (31), PUMP HORSE POWER (37), PUMP COLUMN LENGTH (43), CASING HEIGHT (+ above, - below).



B 1 9855  
1 2 3 6

SEQUENCE NO.  
(MDE USE ONLY)

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HD-95-1280  
70 fill in this form completely 79

527237  
please type

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

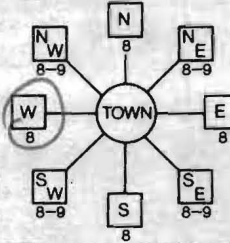
Howard  
8 COUNTY 21  
Lime Kiln Valley  
23 SUBDIVISION 42  
SECTION 44 46 LOT 31 48 50  
Fulton  
52 NEAREST TOWN 71  
MILES FROM TOWN (enter 0 if in town) 1 MI  
73 76 77 78

DRILLER INFORMATION

Michael D. Isom MS 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 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: 40 BLK: 22 PARCEL 114

B 2

WELL INFORMATION

APPROX. PUMPING RATE 5  
(GAL. PER MIN.) 8 12  
AVERAGE DAILY QUANTITY NEEDED 750  
(GAL. PER DAY) 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
- GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER  
HEALTH DEPARTMENT APPROVAL

Howard AS19 SB4  
COUNTY NAME COUNTY NO.  
STATE SIGNATURE INSERT S 41  
DATE ISSUED 10/2/07  
43 MM DD YY 48 CO SIGNATURE EXP. DATE  
NORTH GRID 483 0 0 0 EAST GRID 811 0 0 0  
50 55 57 63

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  
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
- 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

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

APPROX. PERMIT NUMBER HD 2004 G 013(02)  
PERMIT No. HD-95-1280  
70 71 72 73 74 75 76 77 78 79

SHOW MAJOR FEATURES OF  
BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

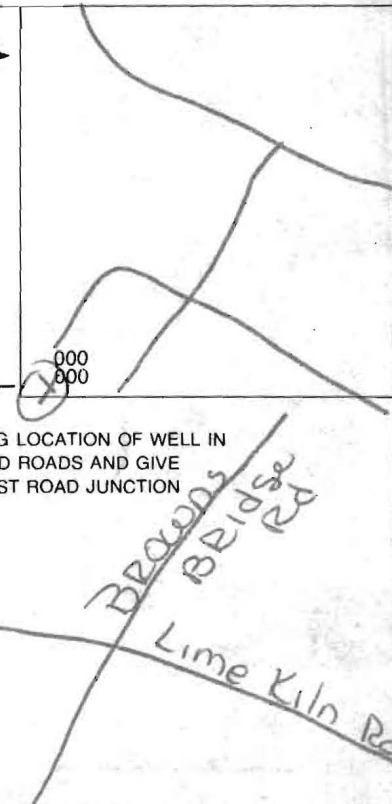
- 1. well
- 2.
- 3.

WRITE THE BOX NUMBER  
FROM THE MAP HERE

E 818 1  
N 480 3

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: 12-03-07  
Address: Lime Kiln Road  
Owner: Brantly Development  
Well Depth: 450 Ft

Permit Number: HO-95-1280  
Subdivision: Lime Kiln Valley lot 31  
Election District:  
Static Water Level: 64 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 1gallon bucket	Calculated Flow-Gallons Per Minute
0900	64 ft		3 sec	20.00 gpm
0915	160		4	15.00
0930	260		5	12.00
0945	305		35	1.71
1000	305		35	1.71
1015	305		35	1.71
1030	305		35	1.71
1045	305		35	1.71
1100	305		35	1.71
1115	305		35	1.71
1130	305		35	1.71
1145	305		35	1.71
1200	305		35	1.71
1215	305		35	1.71
1230	305		35	1.71
1245	305		35	1.71
1300	305		35	1.71
1315	305		35	1.71
1330	305		35	1.71
1345	305		35	1.71
1400	305		35	1.71
1415	305		35	1.71
1430	305		35	1.71
1445	305		35	1.71
1500	305		35	1.71
1515	305		35	1.71

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: Tri-County Pump Service, Inc Telephone #: 301-431-0330
Address: 6711 Old School Rd

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): William Griffith License# 20135

\*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: Craftmark Homes Telephone #: 703-932-0573
Subdivision: Mark Woods Lot #: 31 Well Tag #: HO - 95-1280
Site Address: 12902 Line Hill Rd
Highland Md 20770

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: AT McQuand Make: American Granby Two piece watertight cap: Y
Model #: 23100V2SH Model#: PT400 Screened, vented well cap: Y
Pump Capacity 7 GPM Depth: 36" (36" min) Cap secured to casing: Y
Well Yield: 9 GPM NSF/WSC approved: Y Conduit min 18" B.G.: Y
Depth of well encountered at time of pump installation: 450 (feet) Conduit secured to well cap: Y
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: Y
PSI: 200 (160 psi min) Length of sleeve(5' minimum from foundation): 20FT
Depth of supply line: 36" (36" min) Sleeve sealed properly: Y

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: William E. Griffith date: 1-22-2013

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

Date Insp. Requested: Date Insp. Approved: 1/23/13 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



# Fredericktowne Labs Inc.

ENVIRONMENTAL TESTING

3020 Ventrif Court • P.O. BOX 245 • Myersville, MD 21773 • 800-332-3340 • FAX 301-293-2366  
www.fredericktownelabs.com • info@fredericktownelabs.com

## Certificate of Analysis

Acct. No. 3948 - 867-1

### Field Record

Site visit performed on: Friday, March 01, 2013 10:50 AM  
by: Kevin Kretzer State ID No. 1511KK  
Affiliation: Tri-County Pump Service  
Property Owner: Craftmark Homes  
Property Address: 12902 Lime Kiln Rd  
Highland, MD  
Sample Source: Powder Room  
Treatment Devices Noted: No Treatment Devices  
Well No.: HO-95-1280

### Laboratory Report

Sample Received at laboratory: 3/1/2013 12:50 PM

#### Bacteriological results:

Total Colif. (/100ml)	E.coli. (/100ml)	Start		End		Method	Analyst
		Date	Time	Date	Time		
200	<1	03/01/13	14:42	03/02/13	14:44	9223B	KMW

Bacteriological analysis of this sample indicates the water is unsafe for human consumption.  
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	<0.2 mg/l	10	3/1/2013	300.0	PH
✓ Sand	57 mg/l	5	3/1/2013	0.065mm Filter	JD
✓ Turbidity	4.5 NTU'	10	3/1/2013	180.1	KMW

*Nitrates / Turbidity OK MS*

*Need retest for bacteria of sand*

Reported by: Kevin Kretzer 3/4/13  
Name Date

Fredericktowne Labs, Inc. is a State Certified Water Quality Laboratory  
Maryland Cert. No. 118 Virginia Cert. No. 00444  
MDOT WBE Cert. No.: 91-158



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ENVIRONMENTAL TESTING

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## Certificate of Analysis

Acct. No. 3948 - 872-2

### Field Record

Site visit performed on: Friday, March 08, 2013 11:25 AM  
by: Kevin Kretzer State ID No. 1511KK  
Affiliation: Tri-County Pump Service  
Property Owner: Craftmark Homes  
Property Address: 12902 Lime Kiln Rd  
Highland, MD  
Sample Source: Powder Room

### Laboratory Report

Sample Received at laboratory: 3/8/2013 3:05 PM

#### Bacteriological results:

Total Colif. (/100ml)	E.coli.(/100ml)	Start		End		Method	Analyst
		Date	Time	Date	Time		
<1	<1	03/08/13	15:20	03/09/13	15:28	9223B	SM

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

Reported by: Edwin Mellott 3/11/13  
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



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ENVIRONMENTAL TESTING

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www.fredericktownelabs.com • info@fredericktownelabs.com

## Certificate of Analysis

**Acct. No. 3948 - 872-1**

### Field Record

Site visit performed on: Friday, March 08, 2013 11:15 AM  
by: Kevin Kretzer State ID No. 1511KK  
Affiliation: Tri-County Pump Service  
Property Owner: Craftmark Homes  
Property Address: 12902 Lime Kiln Rd  
Highland, MD  
Sample Source: Powder Room

### Laboratory Report

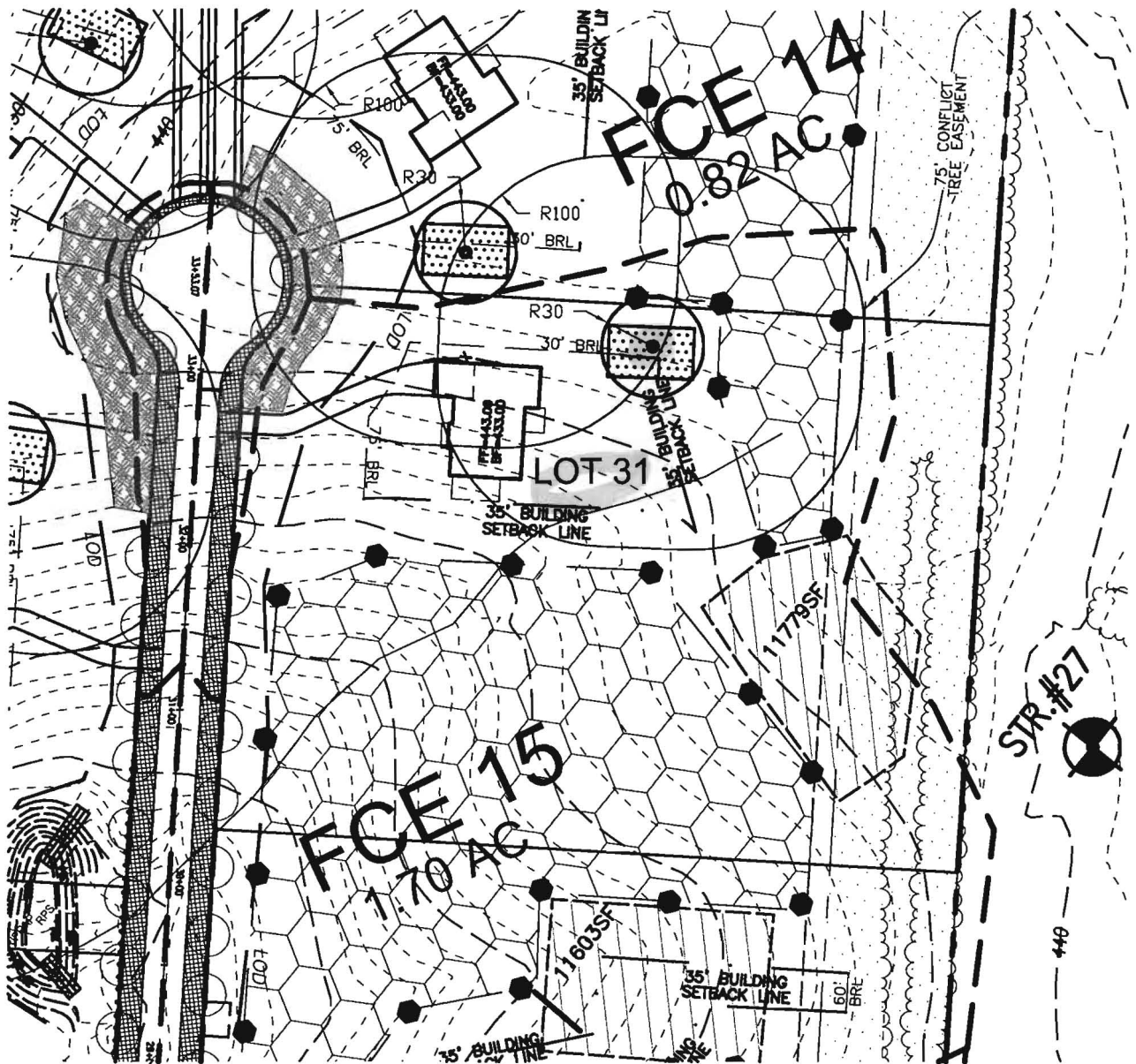
Sample Received at laboratory: 3/8/2013 3:05 PM

#### Inorganic Chemical results:

<u>Parameter</u>	<u>Result</u> <u>Units</u>	<u>MCL</u>	<u>Date of Analysis</u>	<u>Method</u>	<u>Analyst</u>
Sand	<2 mg/l	5	3/8/2013	0.065mmFilter	KMW

Reported by: Eddie Heltott 3/11/13  
Name Date

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Maryland Cert. No. 116 Virginia Cert. No. 00444  
MDOT WBE Cert. No.: 91-158



SCALE: 1"=100'

9/25/07 Well site OK

**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

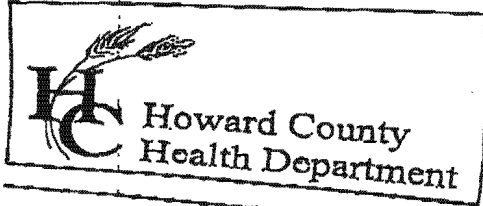
LIME KILN VALLEY II  
 PHASE 1 & 2 (LOT 31)

PROPOSED WELL LOCATION EXHIBIT

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

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:

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

The well <sup>sites</sup> site 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