

C1 5150 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)

COUNTY NUMBER

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER Land Design + Development STREET OR RFD Hunter brooke Lane TOWN Fulton SUBDIVISION Dustin Property SECTION LOT 2

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 Overburden, soft shale, Brown shale, Gray Rock, and Water at 741.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 16 NO. OF POUNDS 1600

GALLONS OF WATER 96

DEPTH OF GROUT SEAL (to nearest foot) from 0 TOP 52 ft. to 61 BOTTOM 58 ft.

CASING RECORD

Case types insert appropriate code below. Options: ST (STEEL), CO (CONCRETE), PL (PLASTIC), OT (OTHER).

MAIN CASING TYPE PL Nominal diameter 6 Total depth 61

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

SCREEN RECORD

screen type or open hole insert appropriate code below. Options: ST (STEEL), BR (BRASS), HO (OPEN HOLE), PL (PLASTIC), OT (OTHER).

DEPTH (nearest ft.)

Table with columns: 1-2, 8-9, 11, 15-17, 21, 23-24, 26, 30-32, 36, 38-39, 41, 45-47, 51

SLOT SIZE 1 2 3 DIAMETER OF SCREEN (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

70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 3

PUMPING RATE (gal. per min.) 13.63

METHOD USED TO MEASURE PUMPING RATE Submersible

WATER LEVEL (distance from land surface)

BEFORE PUMPING 36 ft.

WHEN PUMPING 58 ft.

TYPE OF PUMP USED (for test)

Options: A (air), P (piston), T (turbine), C (centrifugal), R (rotary), O (other), 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

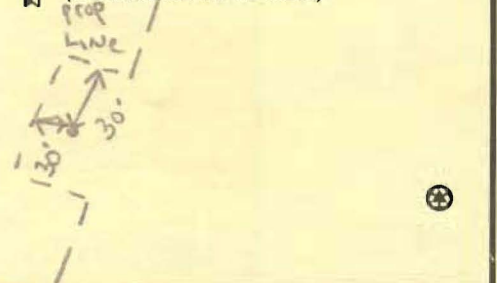
PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height) + 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	8385	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 526668 please type	STATE PERMIT NUMBER 40-95-1150 fill in this form completely
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OWNER INFORMATION

Date Received (APA) 7/26/07
8 MM DD YY 13

Land Design & Development

15 Last Name Owner First Name 34

5300 Dorsey Hill Drive

36 Street or RFD 55

Ellicott City MD 21043

57 Town 70 State 72 Zip 76

LOCATION OF WELL

B 3 Howard

8 COUNTY 21

Duston Property

23 SUBDIVISION 42

SECTION 44 46 LOT 2 48 50

Fulton

52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 0 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 21008

Address

4/17/07

Signature Date

B 4

1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

Hunterbrooke Lane

11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH WEST EAST SOUTH

34 1000 37 DISTANCE FROM ROAD FT

ENTER FT OR MI 38 39

TAX MAP: 46 BLK: 2 PARCEL 103

B 2 **WELL INFORMATION**

1 2 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)

22 INDUSTRIAL, COMMERCIAL, DEWATERING

PUBLIC WATER SUPPLY WELL

TEST, OBSERVATION, MONITORING

GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard (13) A522884

COUNTY NAME COUNTY NO.

STATE SIGNATURE _____ INSERT S → _____

DATE ISSUED 6/15/07 6/15/08
43 MM DD YY 48 CO SIGNATURE EXP. DATE

NORTH GRID 478 000 EAST GRID 0820 000
50 55 57 63

APPROXIMATE DEPTH OF WELL 300 FEET
24 28

APPROXIMATE DIAMETER OF WELL 4 INCH
NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- well
-
-

WRITE THE BOX NUMBER FROM THE MAP HERE

E 820

N 478

000
000

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)

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 DEEPEIN AN EXISTING WELL

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

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

Lime Kiln

Hunterbrooke Lane

712

N ↑

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

APPROP. PERMIT NUMBER _____ G _____

PERMIT No. 40-95-1150
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: 7-27-07 Permit Number: HO-95-1150
Address: Hunterbrooke Lane Subdivision: Dustin Property L#2
Owner Name: Land Design & Devel Election District:
Well Depth: 200 Ft Static Water Level: 36

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 5gallon bucket	Calculated Flow-Gallons Per Minute
0845	36 ft		22 sec	13.63
0900	43		22	13.63
0915	56		22	13.63
0930	56		22	13.63
0945	57		22	13.63
1000	57		22	13.63
1015	57		22	13.63
1030	58		22	13.63
1045	58		22	13.63
1100	58		22	13.63
1115	58		22	13.63
1130	58		22	13.63
1145	58		22	13.63

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: Cavanaugh Plumbing Inc. Telephone #: 301-725-1715
Address: 4207 Cloudberry Ct
Buckensville, MD 20866

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Kevin Cavanaugh License# MD23765

*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: Jeff Cooper Telephone #: 443-324-9511
Subdivision: Hunterbrooke Lot #: 2 Well Tag #: HO-95-1150
Site Address: 8072 Hunterbrooke Lane
Fulton, MD 20759

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Flint & Walling Make: Campbell Two piece watertight cap: ✓
Model #: CP75-1012 Model#: B-20X Screened, vented well cap: ✓
Pump Capacity 10 GPM Depth: 44" (36" min) Cap secured to casing: ✓
Well Yield: 13 GPM NSF approved: ✓ Conduit min 18" B.G.: ✓
Depth of well encountered at time of pump installation: 200 (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 or Cable guards are required - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt ✓

Piping to house House Connection
Type: Poly PVC sleeved to undisturbed soil at wall penetration: ✓
PSI: 160 (160 psi min) Approximate length of sleeve: 490
Depth of supply line: 36" (36" min) 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.

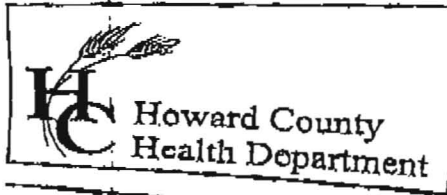
Signature of company representative responsible for installation [Signature] date 8/29/08

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

Date Insp. Requested: 9/2/08 Date Insp. Approved: 9/2/08 [Signature]

- 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 ✓
- 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 ✓

water line
sleeved from
well to house



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:

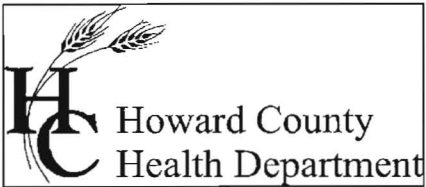
Well Site Location:		
<u>Dustin Property</u>	<u>1-3</u>	<u>Hunterbrooke Lane</u>
Subdivision/Property Name	Lot#	Road Name

The well site has been staked by Fisher, Collins + Carter,
(professional land surveyor or company employing professional land surveyors)
on _____ (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 Columbia Gateway Drive Columbia, Maryland 21046-2132
(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

November 5, 2008

Mr. Jeffrey Cooper
8072 Hunterbrooke Lane
Fulton, MD 20759

SENT VIA FACSIMILE 410-823-4563

RE: Dustin Property, Lot 2
8072 Hunterbrooke Lane
Fulton, MD 20759
BP# B08000194
Well Tag #: HO-95-1150

Dear Sir:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 08/25/2008. Final approval of the well line connection to the dwelling was approved on 09/02/2008.**

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. The water sample results were found to be in compliance with COMAR water quality standards.

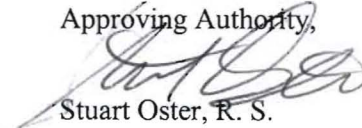
INTERIM CERTIFICATE OF POTABILITY

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-95-1150. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Samples: 10/29/2008 & 11/04/2008
Date of Well Completion: 07/30/2007

Approving Authority,


Stuart Oster, R. S.
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File

Water Testing Laboratories

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

of Maryland, Inc.

Jeffrey S. Cooper
8072 Hunter Brooke Lane
Fulton, Md 20759

Reporting Date: 11/5/2008
Report #: K4863

Submitted Sample Address: 8072 Hunter Brooke Lane
Fulton, Md 20759
Submitted Sample Source: Bathroom sink
Date / Time Collected: 11/4/2008 12:42 PM
Sample Type: Drinking Water
Sampler/Company: D. Pitts 4322DP, WTL of MD
Field Record: Chlorine residual: Absent Clear when drawn
Well #: HO-95-1150

Analytical Results

Parameter	Result	Units	Detection Level	MCL	Analytical Method
Total Coliforms	Absent	Coliforms/100 ml	Present/Absent	Present	SM 9223B
<i>E. Coli</i>	Absent	Coliforms/100 ml	Present/Absent	Present	SM 9223B

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*, 20th Ed.

Reported by,

Christine Rodgers

C. Rodgers, Customer Service Representative

Reviewed by: *JB*

Water Testing Laboratories

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

of Maryland, Inc.

Jeffrey S. Cooper
8072 Hunter Brooke Lane
Fulton, Md 20759

Reporting Date: 10/31/2008
Report #: K4851

Submitted Sample Address: 8072 Hunter Brooke Lane
Fulton, MD 20759
Submitted Sample Source: Outside faucet
Date / Time Collected: 10/29/2008 1:51 PM
Sample Type: Drinking Water
Sampler/Company: D. Pitts 4322DP, WTL of MD
Field Record: Chlorine residual: Absent Clear when drawn
Building Permit #: B 08000194
Plumbing Permit #: P 08001001

Analytical Results

Parameter	Result	Units	Detection Level	MCL	Analytical Method
Total Coliforms	Present	Coliforms/100 ml	Present/Absent	Present	SM 9223B
<i>E. Coli</i>	Absent	Coliforms/100 ml	Present/Absent	Present	SM 9223B
Nitrates + Nitrites	4.9	mg/L	1.0	10	EPA 353.2
Sand	Absent	P/A	Present/Absent	Present	Visual
Turbidity	0.8	NTU	0.5	10	SM 2130B
pH	5.4	SU	0.1	6.5-8.5 (SMCL)	EPA 150.1

Notes:

- Bacteriological analysis of this sample indicates this water is **unsafe** 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.
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- SM - Greenberg, Closerci and Eaton, *Standard Methods for the Examination of Water and Wastewater*, 20th Ed.

Reported by,

Christine Rodgers

C. Rodgers, Customer Service Representative

Reviewed by: *JB*