

C17103

SEQUENCE NO.  
(MDE USE ONLY)

STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPE

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

COUNTY  
NUMBER13

1238  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY  
DATE Received  
MMDDYY  
813

DATE WELL COMPLETED  
MMDDYY  
032608

Depth of Well  
2210026  
(TO NEAREST FOOT)

PERMIT NO.  
FROM "PERMIT TO DRILL WELL"  
5/16/08  
H0-95-1392  
O.K. BB

OWNER  
Bassler  
STREET OR RFD  
Autumn Tree Lane  
SUBDIVISION  
Walnut Creek

first name  
Alfred

TOWN  
Ellicott City

SECTION  
LOT10

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARING

| DESCRIPTION (Use<br>additional sheets if needed) | FEET |     | check<br>if water<br>bearing |
|--|------|-----|------------------------------|
|  | FROM | TO  |                              |
| Top Soil   | 0    | 2   |                              |
| CLAY   | 2    | 10  | ✓                            |
| Sandy  | 10   | 12  |                              |
| MICKA  | 12   | 55  |                              |
| Sand Stone                                       | 55   | 60  | ✓                            |
| MICKA  | 60   | 100 |                              |

GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)

yesno  
YNY  
4444

TYPE OF GROUTING MATERIAL (Circle one)

CEMENTCMBENTONITE CLAYBC

NO. OF BAGS45468NO. OF POUNDS4546800

GALLONS OF WATER48

DEPTH OF GROUT SEAL (to nearest foot)

from0ft. to20ft.  
48TOP52ft. to54BOTTOM58ft.  
(enter 0 if from surface)

CASING RECORD

casing  
types  
insert  
appropriate  
code  
below

STEELSTCONCRETECO  
PLASTICPLOTHEROtherOT

MAIN  
CASING  
TYPE  
PL

Nominal diameter  
top (main) casing  
(nearest inch)6

Total depth  
of main casing  
(nearest foot)22

6061636466670

OTHER CASING (if used)

diameter  
inchdepth (feet)  
fromto

EACH  
CASING

screen type  
or open hole

insert  
appropriate  
code  
below

STEELSTBRASSBR  
PLASTICPLOTHEROtherOT

C3

PUMPING TEST

HOURS PUMPED (nearest hour)3

PUMPING RATE (gal. per min.)10

METHOD USED TO  
MEASURE PUMPING RATE11Bucket15

WATER LEVEL (distance from land surface)

BEFORE PUMPING6ft.  
1720

WHEN PUMPING8ft.  
2225

TYPE OF PUMP USED (for test)

AairPpistonTturbine  
272727  
CcentrifugalRrotaryOother  
272727  
JjetSsubmersible  
2727

NUMBER OF UNSUCCESSFUL WELLS:0

WELL HYDROFRACTURED  
yesno  
YNY

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, AND THAT THE INFORMATION PRESENTED  
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE.

DRILLERS LIC. NO.1 MSD112

DRILLERS SIGNATURE  
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.1 D

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

C2

DEPTH (nearest ft.)

12  
1H020100

EACH  
CASING

18911151721

2232426303236

3383941454751

SLOT SIZE 123

DIAMETER  
OF SCREEN5660  
(NEAREST  
INCH)

fromto

GRAVEL PACK  
IF WELL DRILLED  
WAS FLOWING WELL  
INSERT F IN BOX 6868

MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)

T(E.R.O.S.)WQ

7072747576

TELESCOPE  
CASINGLOG  
INDICATOROTHER DATA

PUMP INSTALLED

DRILLER INSTALLED PUMP YESNO

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 2929

CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon)3135

PUMP HORSE POWER3741

PUMP COLUMN LENGTH  
(nearest ft.)4347

CASING HEIGHT (circle appropriate box  
and enter casing height)

+above49

LAND SURFACE

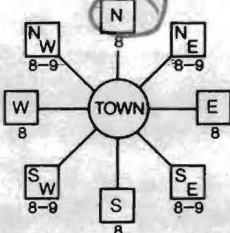
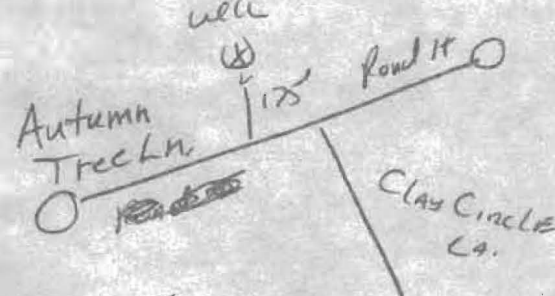
-below49

(nearest  
foot)25051

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)

Prop Line  
75'  
50'  
well

|  |                                |   |   |
|--|--------------------------------|---|---|
| B 1<br>1 2 3 4 5 6<br><b>0557</b>  | SEQUENCE NO.<br>(MDE USE ONLY) | <b>STATE OF MARYLAND</b><br><b>APPLICATION FOR PERMIT TO DRILL WELL</b><br><b>526621</b> please type  | STATE PERMIT NUMBER<br><b>HO-95-1392</b><br><small>fill in this form completely</small> |
| Date Received (APA)<br>8 MM DD YY 13<br><b>BASSLER Venture LLC</b><br>15 Last Name Owner First Name 34<br><b>15950 W. AVE.</b><br>36 Street or RFD 55<br><b>Lisbon MD 21265</b><br>57 Town 70 State 72 Zip 76  |                                | B 3 LOCATION OF WELL<br>8 COUNTY 21<br><b>Howard</b><br><b>Walnut Creek</b><br>23 SUBDIVISION 42<br><b>Phase I</b><br>SECTION 44 46 LOT 48 50<br><b>10</b><br><b>Clarksville</b><br>52 NEAREST TOWN 71<br>MILES FROM TOWN (enter 0 if in town) 73 <b>2</b> M 1<br>76 77 78  |   |
| DRILLER INFORMATION<br>Driller's Name 76 License No. 81<br><b>Ralph E. Mayne M SD 112</b><br>Firm Name<br><b>Ralph E. Mayne Inc</b><br>Address<br><b>17024 Handy rd Mt Airy MD 21771</b><br><b>22 E. Wymore 3-30-09</b><br>Signature Date  |                                | B 4<br>1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)<br> 11 NEAR WHAT ROAD 30<br><b>Autumn Tree Ln.</b><br>ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)<br>34 37<br><b>240</b><br>DISTANCE FROM ROAD<br>ENTER FT OR MI 38 39<br><b>28</b> TAX MAP: <b>11</b> BLK: <b>49</b> PARCEL |   |
| B 2 WELL INFORMATION<br>1 2 APPROX. PUMPING RATE (GAL. PER MIN.) 8 12<br><b>5</b><br>AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20<br><b>500</b>  |                                | NOT TO BE FILLED IN BY DRILLER<br>HEALTH DEPARTMENT APPROVAL<br>COUNTY NAME <b>Howard</b> COUNTY NO. <b>13</b><br>STATE SIGNATURE INSERT S →<br>DATE ISSUED <b>1/14/2008</b> <b>Brian Baker</b> <b>1/14/2009</b><br>43 MM DD YY 48 CO SIGNATURE EXP/DATE<br>NORTH GRID <b>509</b> 0 0 0 EAST GRID <b>816</b> 0 0 0<br>50 55 57 63                                     |   |
| USE FOR WATER (CIRCLE APPROPRIATE BOX)<br><input checked="" type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION<br><input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)<br><input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING<br><input type="checkbox"/> PUBLIC WATER SUPPLY WELL<br><input type="checkbox"/> TEST, OBSERVATION, MONITORING<br><input type="checkbox"/> GEO-THERMAL  |                                | SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X<br>SOURCES OF DRILLING WATER<br>1. <b>well</b><br>2.<br>3.<br>WRITE THE BOX NUMBER FROM THE MAP HERE<br>E <b>8146</b><br>N <b>5089</b><br>000<br>000   |   |
| APPROXIMATE DEPTH OF WELL <b>150</b> FEET<br>24 28<br>APPROXIMATE DIAMETER OF WELL <b>6"</b> NEAREST INCH  |                                | METHOD OF DRILLING (circle one)<br>BORED (or Augered) JETTED Jetted & DRIVEN<br>30 <b>AIR-ROTary</b> AIR-PERcussion ROTARY (Hydraulic Rotary)<br>37 <b>CABLE</b> REVERSE-ROTary DRIVE-POINT<br>other  |   |
| REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)<br><input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL<br><input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED<br>39 <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS<br><input type="checkbox"/> THIS WELL WILL DEEPEAN AN EXISTING WELL<br>PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (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<br>   |   |
| Not to be filled in by driller (MDE OR COUNTY USE ONLY)<br>APPROP. PERMIT NUMBER <b>G</b><br>PERMIT No. <b>HO-95-1392</b><br>70 71 72 73 74 75 76 77 78 79   |                                |   |   |
| SPECIAL CONDITIONS<br>NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED<br><b>Drill Well Per Plan SP-06-07, Radium Sample</b>   |                                |   |   |

FIELD DATA SHEET  
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 95-1392  
Location of property (road) Autumn Tree Lane  
Subdivision Walnut Creek Lot 10 Block      Plat      Sec.       
Well Driller Ralph Mayne Owner Bassler

Depth of well 100

Distance of measuring point (M.P.) above ground 2.00

Static water level (S.W.L.) below M.P. 6 ft

### I. High rate pumping -- reservoir drawdown

Time pump started 8:30 Pumping rate 10 Gpm  
Total time 15 min to reach pumping water level 8 ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

[illegible]



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: Do-It Plumbing, Inc. Telephone #: 240 882-0069  
Address: 9125 Old Mill Rd.  
811 Rd. 21042

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

Name (Print): Diane Gilbert License# 21899

\*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: TDI Telephone #: 410-480-0423  
Subdivision: Walnut Creek Lot #: 10 Well Tag #: HO-25-1322  
Site Address: 12304 Autumn Tree Ln.  
Clarksville, Md. 21029

Submersible Pump Data

Make: Mayes  
Model #: 2552-1281-84-2  
Pump Capacity: 12 GPM  
Well Yield: 10 GPM

Pitless Adapter

Make: American  
Model #: PT 800 LF  
Depth: 45 (36" min)  
NSF/AVSC 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  
Conduit secured to well cap: yes

Depth of well encountered at time of pump installation: 100 (feet)

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

Type: Black Poly Plastic  
PSI: 40 (160 psi min)  
Depth of supply line: 40 (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: yes  
Length of sleeve (5' minimum from foundation): 12 ft  
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.

Signature of company representative responsible for installation

date

Dec 17 2015

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

Date Insp. Requested: \_\_\_\_\_ Date Insp. Approved: \_\_\_\_\_ Inspector: \_\_\_\_\_  
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 \_\_\_\_\_

**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 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: \_\_\_\_\_ Telephone #: \_\_\_\_\_  
Subdivision: \_\_\_\_\_ Lot #: 10 Well Tag #: HO - 95 - 1392  
Site Address: 12304 Autumn Tree Ln

**Submersible Pump Data**

Make: \_\_\_\_\_

Model #: \_\_\_\_\_

Pump Capacity \_\_\_\_\_ GPM

Well Yield: \_\_\_\_\_ GPM

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, 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

**Pitless Adapter**

Make: \_\_\_\_\_

Model#: \_\_\_\_\_

Depth: \_\_\_\_\_ (36" min)

NSF/WSC 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: \_\_\_\_\_

**Piping to house**

Type: \_\_\_\_\_

PSI: \_\_\_\_\_ (160 psi min)

Depth of supply line: \_\_\_\_\_ (36" min)

**House Connection**

PVC sleeve 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: 4/22/15 Date Insp. Approved: 4/22/15 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 seen 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 ✓

**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 #: 104938 Account #: 4035  
Reference: Walnut Creek Lot 10 Company: Trinity Quality Homes, Inc.  
Location: 12304 Autumn Tree Lane Requested By: Michael Pfau  
Clarksville, MD 21029 Source: Well Water  
Date/ Time Collected: 12/28/2015 1400 Site: Pressure Tank  
Date/Time Rec'd: 12/28/2015 1530 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 7.5  
Collected By: C. Mooshian 7268CM Well #: HO-95-1392

| PARAMETERS                     | RESULTS | UNITS       | REFERENCE | METHOD             | DATE/TIME/ANALYST       |
|--------------------------------|---------|-------------|-----------|--------------------|-------------------------|
| Bacteria, Coliform, Total, MPN | <1.0    | MPN/ 100 ml | <1.0      | SM18 9223          | 12/29/2015 / 0930 / CCH |
| Bacteria, E. coli, MPN         | <1.0    | MPN/ 100 ml | <1.0      | SM18 9223          | 12/29/2015 / 0930 / CCH |
| Nitrate                        | 3.09    | mg/L        | 10        | 601                | 12/29/2015 / 0945 / CRS |
| Turbidity                      | 0.39    | NTU         | <10       | SM18 2130B         | 12/29/2015 / 1035 / CRS |
| Sand                           | NS      | mg/L        | 5         | Visual/Gravimetric | 12/29/2015 / 1035 / CRS |

**NOTES**

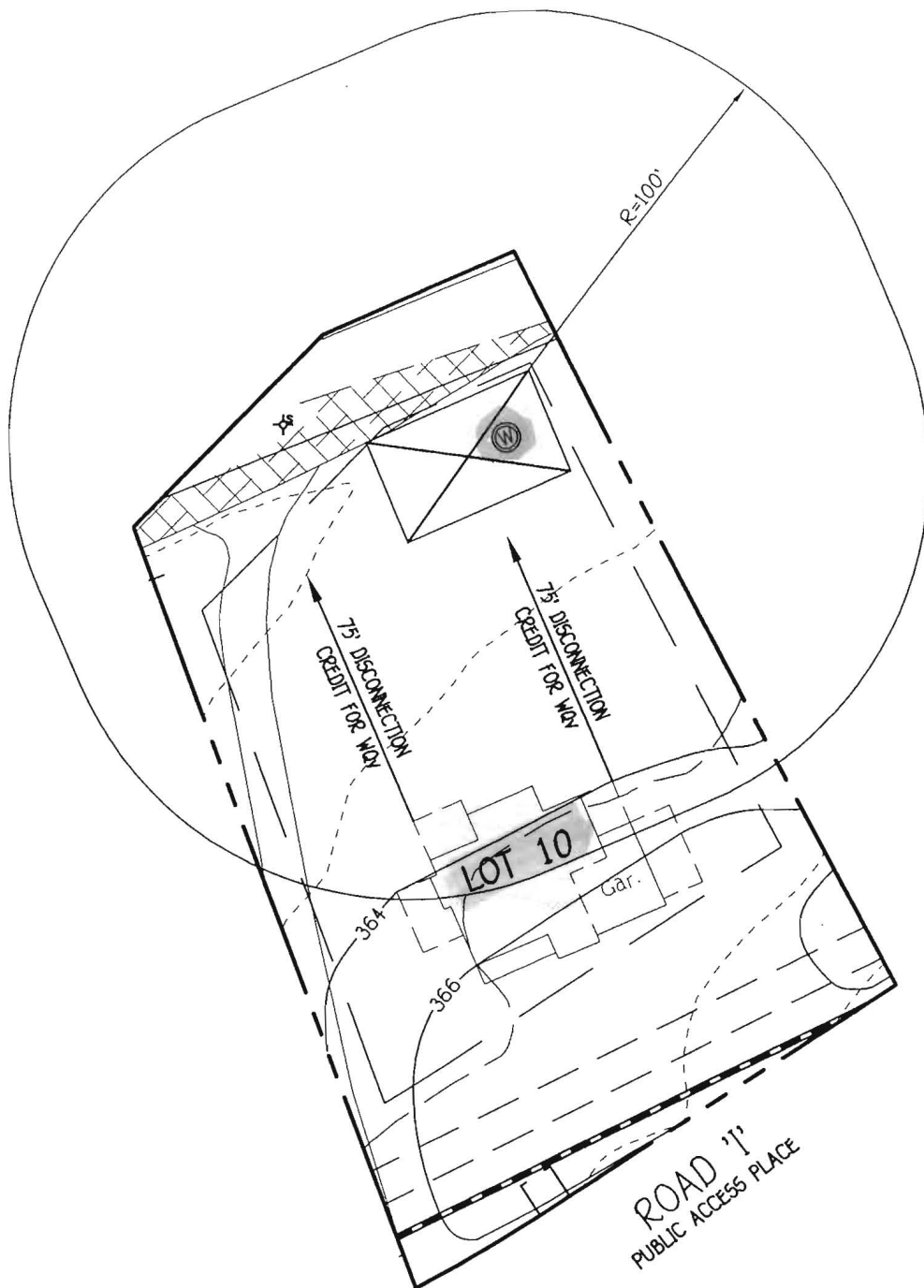
- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND:None Detected
- 7 pH & Chlorine level tested on site
- 8 Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy  
Building Permit # : B13004392

Date Reported: 12/29/2015

Reviewed By:

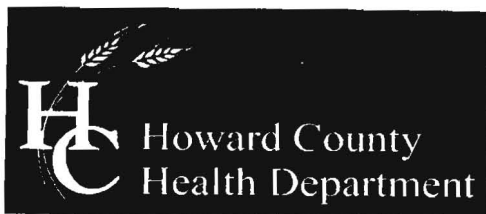




1/14/08 Well Site  
 Staked by *BB*

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461 - 2055

WELL LOCATION PLAN  
 LOT 10  
 ZONED RC-DEO & RR-DEO  
 TAX MAP No. 28 GRID No. 4, 5, 10-12, 17 & 18  
 PARCEL No. 49  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE 1"=50' DATE: FEBRUARY 26, 2007



Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia, MD 21046-2147  
(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

April 25, 2008

Heritage Realty & Land Development  
15950 North Ave.  
P.O. Box 482  
Lisbon, Md 21765

RE: Walnut Creek, Lot#10  
Well Tag: HO-95-1392

*Autumn Tree Ln*

To Whom It May Concern:

A sample was collected from a yield test March 26, 2008 and submitted to the Department of Health and Mental Hygiene Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. In turn, this can provide information regarding naturally occurring radiation (i.e., Radionuclides) that may exist in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of  $6.0 \pm 2.0$  picocuries/liter (pCi/L); while the **Gross Beta** level was  $7.0 \pm 2.0$  pCi/L. The **Gross Alpha** result was below its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its target value of 50 pCi/L (roughly equivalent to the **annual dose rate** of 4 millirems/year).

At the time of testing and with respect to these parameters, the future well water supply appears safe for all uses. No additional testing **for these parameters** will be required to secure the future Use & Occupancy. However, other standard (potability) testing will still be necessary.

A copy of the test results is enclosed for your information. Please call this office at 410-313-1773 if you have any further questions.

Sincerely,

Bert Nixon, Director  
Bureau of Environmental Health

cc: Barry Glotfelty, MDE Water Mgmt.