

C 1 26161

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)

FILL IN THIS FORM COMPLETELY PLEASE TYPE

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, WELL SITE ADDRESS Scaggsville Rd, TOWN Fulton, SUBDIVISION Fulton Manor Valley, SECTION, LOT 7

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for SOIL, Red clay, Brown shale, med GRAY Rock, SOFT GRAY Rock.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM), NO. OF BAGS 15, NO. OF POUNDS 1410, GALLONS OF WATER 90, DEPTH OF GROUT SEAL 0 to 30 ft.

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

OTHER CASING (if used): PL, diameter 4 1/2, depth 135, 215.

SCREEN RECORD: screen type or open hole (ST), insert appropriate code below.

PUMPING TEST: HOURS PUMPED 3, PUMPING RATE 4.29 gal. per min., METHOD USED TO MEASURE PUMPING RATE Submersible, WATER LEVEL 30 ft. before, 150 ft. when pumping, TYPE OF PUMP USED (S) submersible.

PUMP INSTALLED: DRILLER INSTALLED PUMP (NO), TYPE OF PUMP INSTALLED PLACE (29), CAPACITY: GALLONS PER MINUTE (31-35), PUMP HORSE POWER (37-41), PUMP COLUMN LENGTH (43-47), CASING HEIGHT (+) above, (-) below.

NUMBER OF UNSUCCESSFUL WELLS: 0, WELL HYDROFRACTURED (Y)

CIRCLE APPROPRIATE LETTER: A WELL WAS ABANDONED AND SEALED, 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...

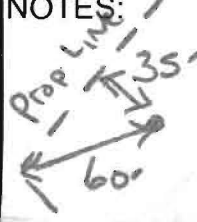
DRILLERS LIC. NO. MWD 355, DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. MSD 066, SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

DEPTH (nearest ft.): Ho 50, 275, SLOT SIZE 1, 2, 3, DIAMETER OF SCREEN (56-60), GRAVEL PACK IF WELL DRILLED (68)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER): T (E.R.O.S.), W Q, TELESCOPE CASING, LOG INDICATOR, OTHER DATA

LATITUDE 39.15482, LONGITUDE 76.93013 (DEFAULT COORD. WGS 84)



B 1 20072  
1 2 3 6

SEQUENCE NO.  
(MDE USE ONLY)

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-95-2685  
70 fill in this form completely 79

546308-F please type

Date Received (APA)

04/14  
8 MM DD YY 13

OWNER INFORMATION

Land Design + Development  
15 Last Name Owner First Name 34  
5300 Dorsey Hall Dr, Suite 102  
36 Street or RFD 55  
Ellicott City, Md 21043  
57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

Howard  
8 COUNTY 21  
Fulton Manor Valley  
23 SUBDIVISION 42  
SECTION 44 46 LOT 7 PART 2 48 50  
Fulton  
52 NEAREST TOWN 71

DRILLER INFORMATION

Michael Barlow MWD 355  
Driller's Name 76 License No. 81  
Barlow Well Drilling  
Firm Name  
502 Underwood Lane, 21014  
Address  
Signature Date 4-10-14

B 4

SOURCES OF DRILLING WATER

- 1. well
- 2.
- 3.

Scaggsville Road  
11 STREET ADDRESS 30  
ON WHICH SIDE OF ROAD  
(CIRCLE APPROPRIATE BOX)  
NORTH  
WEST EAST  
SOUTH  
34 800 37  
DISTANCE FROM ROAD FT  
ENTER FT OR MI 38 39  
TAX MAP: 41 BLK: PARCEL 78

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
- OPEN LOOP GEOTHERMAL
- CLOSED LOOP GEOTHERMAL

NOT TO BE FILLED IN BY DRILLER  
HEALTH DEPARTMENT APPROVAL

Howard A535210 13  
COUNTY NAME COUNTY NO.  
STATE SIGNATURE INSERT S  
DATE ISSUED 04/15/2014 RHT 4/15/15  
43 MM DD YY 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 300 FEET  
24 28

APPROXIMATE DIAMETER OF WELL 6 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)

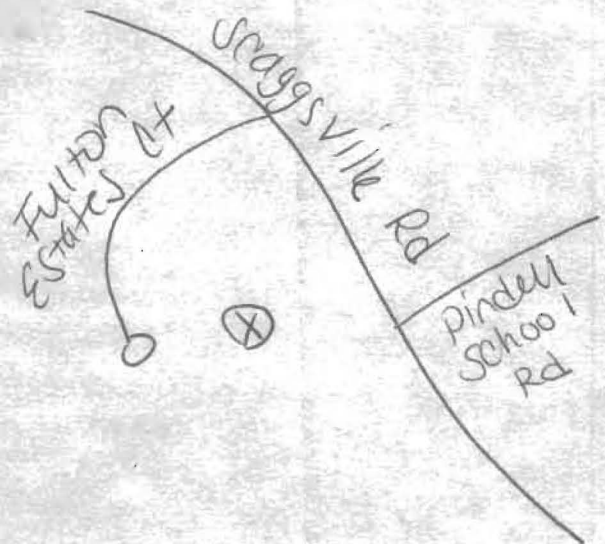
- THIS WELL WILL NOT REPLACE AN EXISTING WELL
- THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- 39  THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
- THIS WELL WILL DEEPEN AN EXISTING WELL

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 G  
PERMIT No. HO-95-2685  
70 71 72 73 74 75 76 77 78 79

PROPOSED LOCATION OF WELL ON LOT  
SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM,  
ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO  
DISTANCE MEASUREMENTS TO WELL



SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



**MICHAEL BARLOW WELL DRILLING & SERVICE, INC.**  
**522 Underwood Lane**                      **Bel Air, Maryland 21014**  
**(410) 838-6910**                                **Fax (410) 838-3582**

**WELL YIELD REPORT**

Date Test Completed:	September 2, 2014		
Well Depth:	275	feet	
Customer	Land Design & Development	Permit #	HO-95-2685
Road	Fulton Estates Court	Subdivision	Fulton Manor Valley
City	Fulton	Section	
State	Maryland	Lot #	7

Time	Water Level feet	Time to Fill 1-gallon bucket seconds	G.P.M.
8:45 AM	30	4	15.00
9:00 AM	70	4	15.00
9:15 AM	110	8	7.50
9:30 AM	150	14	4.29
9:45 AM	150	14	4.29
10:00 AM	150	14	4.29
10:15 AM	150	14	4.29
10:30 AM	150	14	4.29
10:45 AM	150	14	4.29
11:00 AM	150	14	4.29
11:15 AM	150	14	4.29
11:30 AM	150	14	4.29
11:45 AM	150	14	4.29
12:00 PM	150	14	4.29
12:15 PM	150	14	4.29
12:30 PM	150	14	4.29

This yield test report is for informational purposes only. Please note the yield may increase or decrease over time and the GPM indicated above is not a guarantee.

**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: NATIONAL WATER SVC Telephone #: 301-854-1333  
Address: P.O. BOX 138  
ASHTON, MD 20861

(Must circle one) Licensed Plumber      Licensed Well Driller      **Licensed Well Pump Installer**  
License # and name of individual responsible for the field installation:  
Name (Print): DAVID RYCKE License# PI 0145

\*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: DOUGLAS HOMES Telephone #: \_\_\_\_\_  
Subdivision: FULTON MANOR Lot #: 7 Well Tag #: HO-95-2685  
Site Address: 11813 COLLIE CT  
FULTON, MD

**Submersible Pump Data**

Make: GRUNDOS  
Model #: \_\_\_\_\_  
Pump Capacity 15 GPM  
Well Yield: 4.29 GPM  
Depth of well encountered at time of pump installation: 275 (feet)

**Pitless Adapter**

Make: Campbell  
Model#: PA800  
Depth: 48 (36" min)  
NSF approved: YES

**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:

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: POLY  
PSI: 160 (160 psi min)  
Depth of supply line: 4' (36" min)

**House Connection**

PVC sleeved to undisturbed soil at wall penetration: YES  
Approximate length of sleeve: 5'  
Sleeve caulked and sealed properly: YES

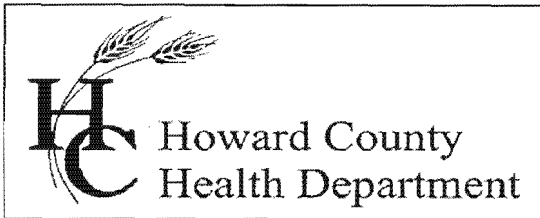
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation \_\_\_\_\_ date 12-12-16

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

Date Insp. Requested: 12/13/2016 Date Insp. Approved: 12/16/16 SC/AC  
Inspection Data: Pitless adapter and water supply line at least 36" below grade  48" 2016/12/13 (S)  
Two piece cap installed and attached to casing securely   
Elec. conduit extends at least 18" below grade/attached to cap properly  48" 2016/12/13 (S)  
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





## Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

[www.hchealth.org](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

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### INTERIM CERTIFICATE OF POTABILITY

Expiration Date – SEPTEMBER 13, 2017

March 13, 2017

Michael and Wendy Krouse  
11813 Collie Court  
Fulton, MD 20759

**RE: Fulton Manor Valley, Lot 7  
11813 Collie Court, Fulton MD 20759  
Building Permit: B16001561  
Well Permit: HO-95-2685**

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 **2/15/2017**. Final approval of the well line connection to the dwelling was granted on **12/16/16**. The well construction was completed on **9/5/2014**. Water samples were collected on **2/28/2017**.

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-95-2685. 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>

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461 - 2855



Well Sites ok  
 (PR) 4/15/14

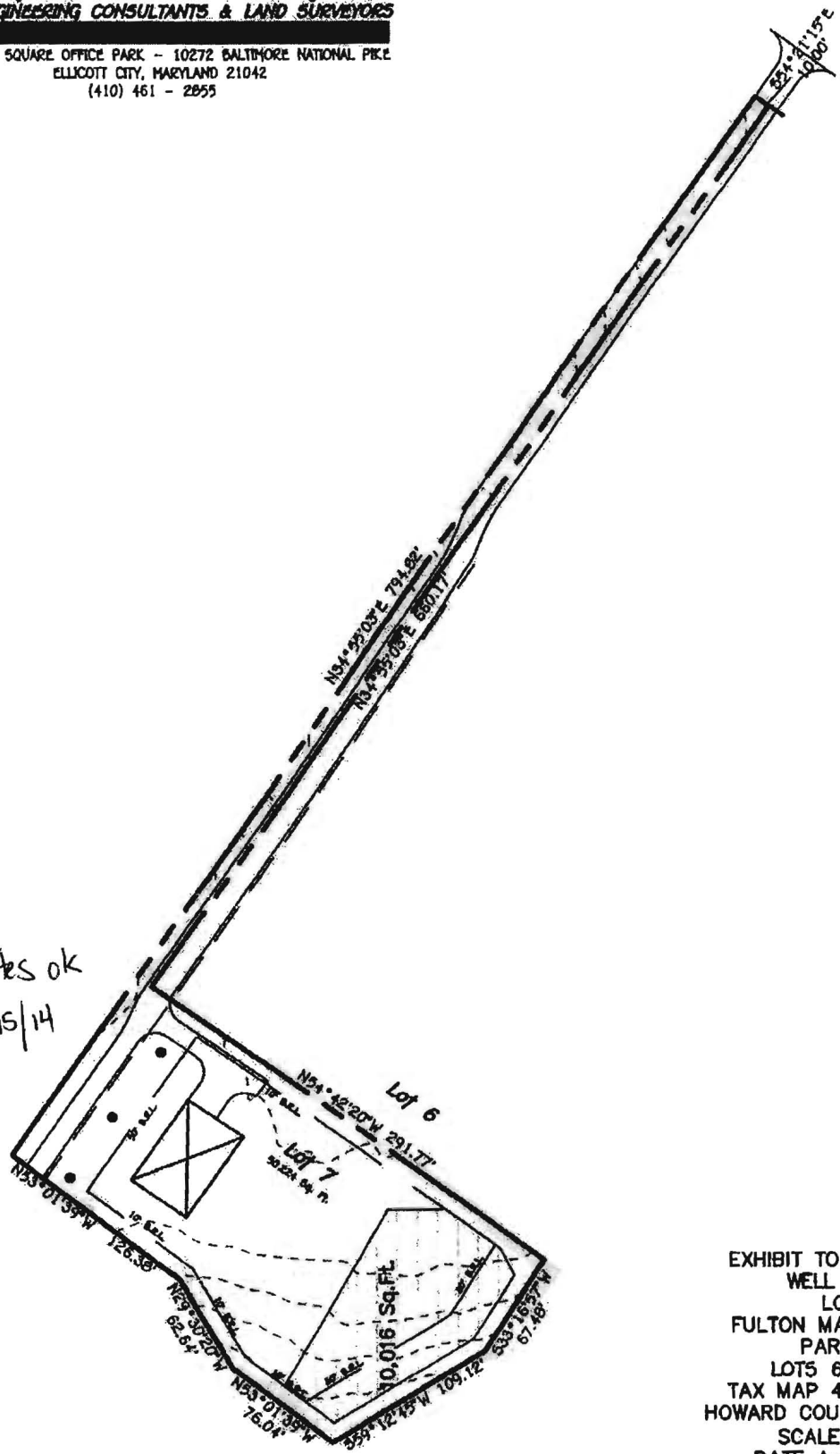


EXHIBIT TO ACCOMPANY  
 WELL PERMIT  
 LOT 7  
 FULTON MANOR VALLEY  
 PART TWO  
 LOTS 6 THRU 9  
 TAX MAP 41 PARCEL 78  
 HOWARD COUNTY, MARYLAND  
 SCALE 1"=100'  
 DATE April 3, 2014

I:\2011\11015\dwg\11015-001 Well Exhibit Lot 7.dwg, Model, 4/3/2014 11:01:09 AM, 1:100

**MICHAEL BARLOW WELL DRILLING  
522 UNDERWOOD LANE  
BEL AIR, MD 21014  
410-838-6910**

**FAX TRANSMITTAL FORM**

**DATE:** 4/22/14

**TO:** Ryan

**COMPANY NAME:**

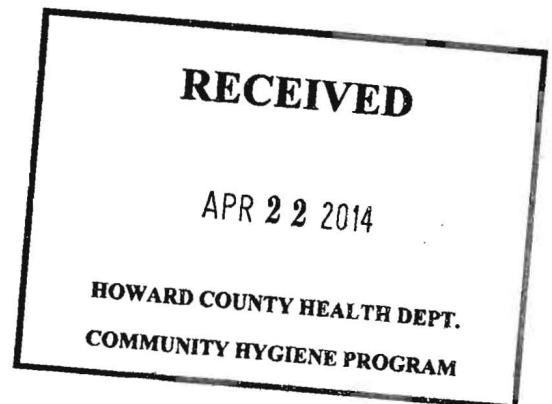
**FAX NUMBER:** 410-313-2648

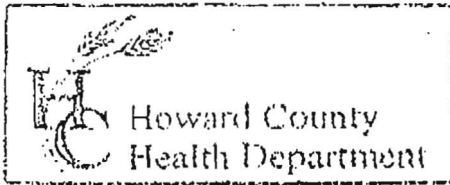
**RE:** Well stakes at Fulton Manor Valley

**Number of Pages including cover:** 2

**Message:** All 9 lots at Fulton Manor Valley have been staked by Fisher, Collins & Carter. Please let me know when the permits are available and I will have someone pick them up.

**Mike Isom**





3525 H Ellicott Mills Drive, Ellicott City, MD 21043  
 (410) 313-2640 Fax (410) 313-2648  
 TDD (410) 313-2323 Toll Free 1-866-313-6300  
 website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

TO ALL INTERESTED PARTIES

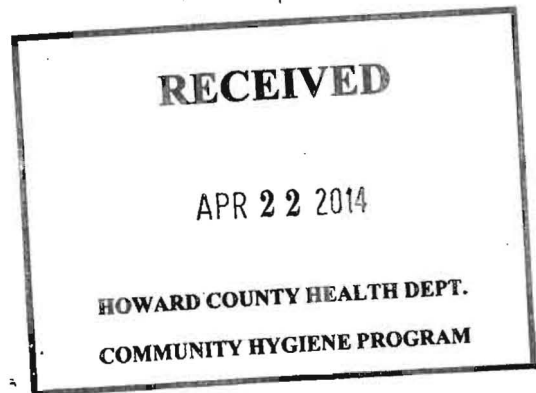
When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

- Fulton Manor Valley Lots 1 thru 9
- The well site has been staked by Fisher Collins + Carter,  
 (professional land surveyor or company employing professional land surveyors)  
 on 4/21/14 (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 6/10/03

Michael Ison  
 Barlow Well Drilling



**FISHER, COLLINS & CARTER, INC.**  
**CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS**

CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461 - 2855

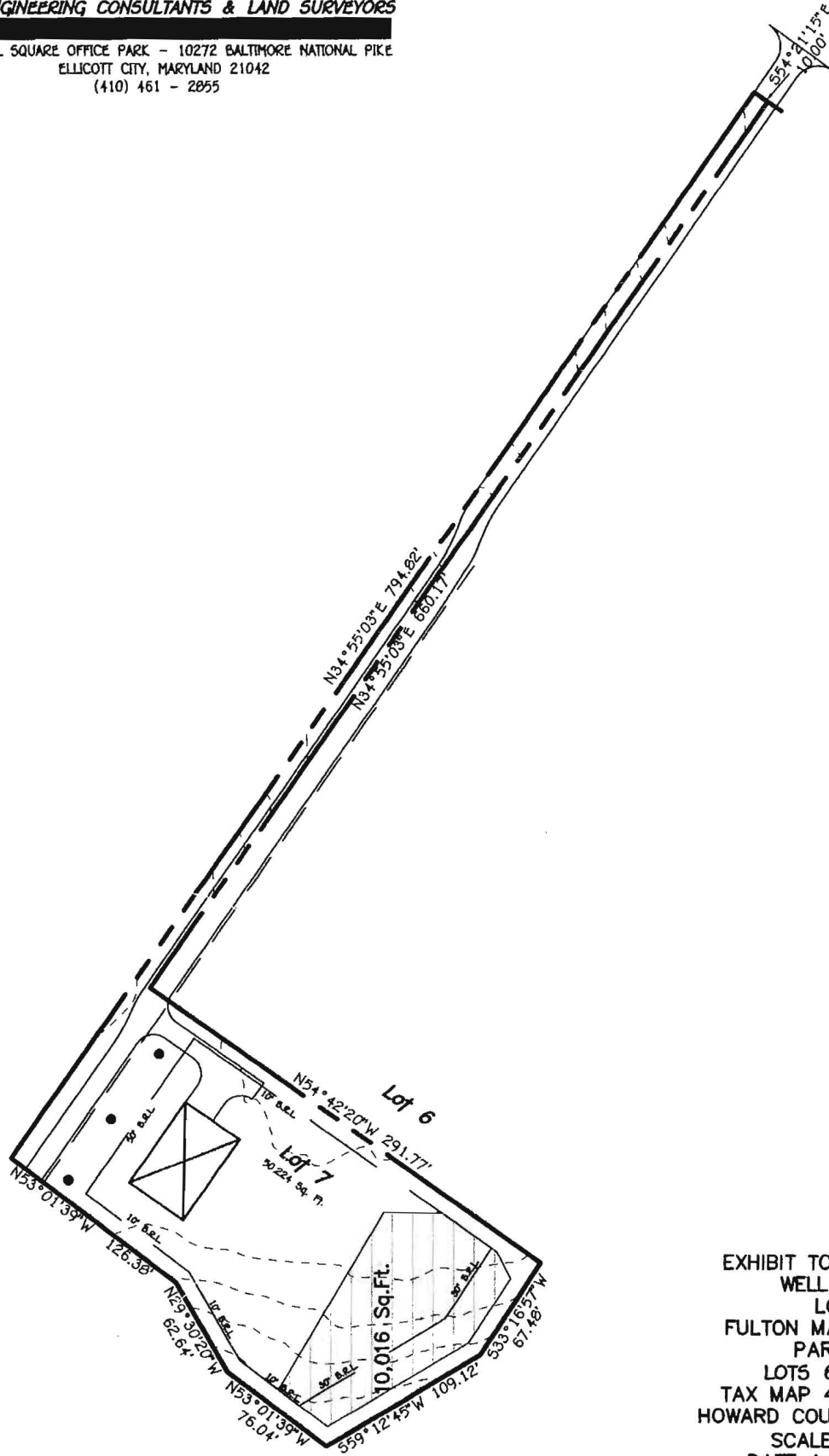


EXHIBIT TO ACCOMPANY  
 WELL PERMIT  
 LOT 7  
 FULTON MANOR VALLEY  
 PART TWO  
 LOTS 6 THRU 9  
 TAX MAP 41 PARCEL 78  
 HOWARD COUNTY, MARYLAND  
 SCALE 1"=100'  
 DATE April 3, 2014

# 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 #: 113110 Account #: 3123  
Reference: Douglas Homes Lot 7 Company: National Water Servicing  
Location: 11813 Collie Court Requested By: Dave Rycke  
Fulton, MD 20759 Source: Well Water  
Date/ Time Collected: 2/28/2017 0930 Site: Pressure Tank  
Date/Time Rec'd: 2/28/2017 1100 Treatment: Sediment Filter\*\*  
Chlorine ppm: Free: ND Total: ND pH: 7.2  
Collected By: J. Yeager 6176JY Well #: HO-95-2685

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	3/1/2017 / 1000 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	3/1/2017 / 1000 / CCH
Nitrate	1.33	mg/L	10	601	2/28/2017 / 1600 / CRS
Turbidity	0.71	NTU	<10	SM18 2130B	2/28/2017 / 1630 / CRS
Sand	NS	mg/L	5	Visual/Gravimetric	2/28/2017 / 1630 / CRS

'OK'  
RUB 3/13/2017

### NOTES

- 1 Revised Report: Well number corrected 3/13/17 CCH
- 2 \*\*Sample collected prior to Sediment Filter
- 3 mg/L = milligrams per liter (also, parts per million)
- 4 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 5 NS = None Seen (NS indicates less than 5 mg/L)
- 6 NTU = Nephelometric Turbidity Units
- 7 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 8 ND:None Detected
- 9 Visual well check: Sealed, vented cap
- 10 pH & Chlorine level tested on site

Reason for Test : Use & Occupancy  
Building Permit # : 16001561

Date Reported: 3/13/2017