

C1 0117

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

COUNTY NUMBER (13) A515042

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

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 11 18 05

Depth of Well 200 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-0136

OWNER Toll Brothers Homes STREET OR RFD Independence Way TOWN Ellicott City SUBDIVISION Benedict Farm SECTION LOT 54

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 SOFT BROWN, MEDIUM SAND STONE, HARD CLAY, etc.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (C) (B) NO. OF BAGS 10 NO. OF POUNDS 417

CASING RECORD

MAIN CASING TYPE PL Nominal diameter 6 Total depth of main casing 40

OTHER CASING (if used) diameter depth (feet) table

SCREEN RECORD

DEPTH (nearest ft.) 110 39 200

Table with columns: E, A, C, H, S, C, R, E, N and rows for casing sections

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)

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 10 METHOD USED TO MEASURE PUMPING RATE Time/Volume

PUMP INSTALLED

DRILLER INSTALLED PUMP YES (NO) TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y) (N)

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"

DRILLERS LIC. NO. M D 355 DRILLERS SIGNATURE LIC. NO. D

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

printed test 7:30 11/18/05 Grout 4/19/05 9am

B 1 6509

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

40-95-0136 fill in this form completely

523472 please type

Date Received (APA) 10/11/2005

OWNER INFORMATION

Toll Brothers, Inc. 1164 Columbia Gateway Dr. Suite 230 Columbia, MD 21046

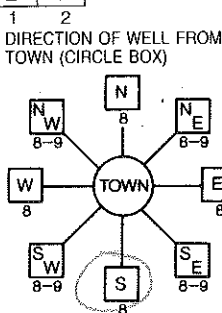
LOCATION OF WELL

Howard County Homewood Crossing Clarksville

DRILLER INFORMATION

Michael Barlow MW D355 Michael Barlow Well Drilling Svc 622 Underwood Lane Bel Air MD 21014

DIRECTION OF WELL FROM TOWN



Independence Way Road



WELL INFORMATION

APPROX. PUMPING RATE 5 APPROX. PUMPING RATE (GAL. PER MIN.) AVERAGE DAILY QUANTITY NEEDED 500

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 (13) A515042 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 10/13/2005 CO SIGNATURE EXP. DATE 10/13/2006 NORTH GRID 510 EAST GRID 827

APPROXIMATE DEPTH OF WELL 250 FEET APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered) AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary DRIVE-POINT

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

Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER H02003G006 PERMIT No. H0-95-0136

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER WRITE THE BOX NUMBER FROM THE MAP HERE DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION

SPECIAL CONDITIONS NOTE - APPLYING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

**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: Fogles Well Drilling LLC Telephone #: 443-609-4195
Address: P.O. Box 303
Woodbine md 21797

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Allen Compton License# MSD0009

*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: Tall Brothers Telephone #: 410-995-5978
Subdivision: Benedict Farm Lot #: 34 Well Tag #: HO-95-013
Site Address: 11251 Independence Way
E.C. md

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Casing and Electric Conduit</u>
Make: <u>Grundfos</u>	Make: <u>Grundfos</u>	Two piece watertight cap: <u>yes</u>
Model #: <u>1550610-22C</u>	Model#: <u>N/A</u>	Screened, vented well cap: <u>yes</u>
Pump Capacity <u>15</u> GPM	Depth: <u>36"</u> (36" min)	Cap secured to casing: <u>yes</u>
Well Yield: <u> </u> GPM	NSF approved: <u>yes</u>	Conduit min 18" B.C.: <u>yes</u>
Depth of well encountered at time of pump installation: <u>150</u> (feet)		Conduit secured to well cap: <u>yes</u>
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.3.4		
Torque arrestors or Cable guards are required - Must circle one		
Safety rope, if used, attached to inside of well casing with eye bolt <u>N/A</u>		

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>1" CPVC Plastic</u>	PVC sleeved to undisturbed soil at wall penetration: <u>yes</u>
PSI: <u>160</u> (160 psi min)	Approximate length of sleeve (5 foot minimum): <u>5'</u>
Depth of supply line: <u>42"</u> (36" min).	Sleeve caulked and sealed properly: <u>yes</u>

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:

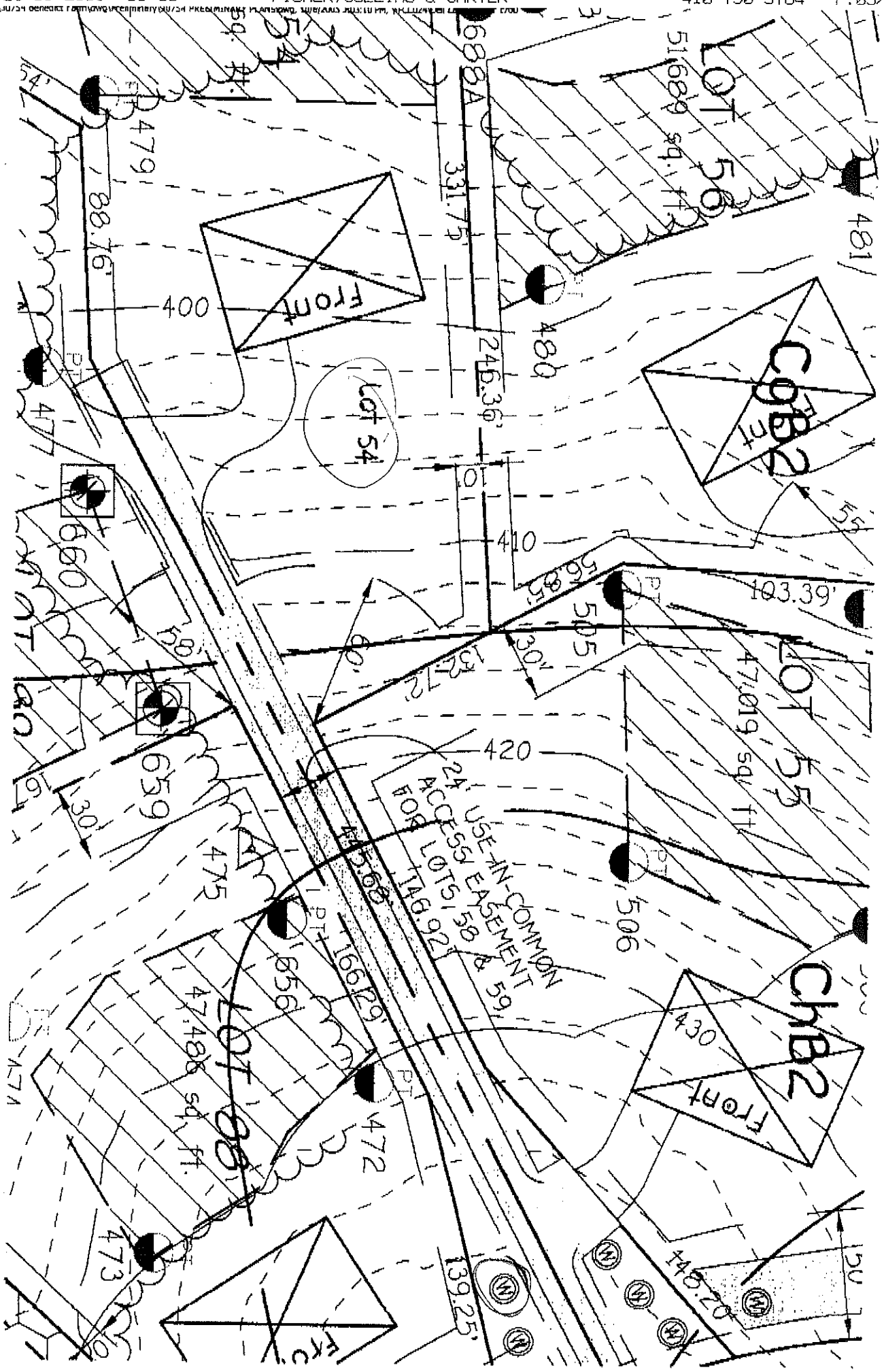
Signature of company representative responsible for installation: Allen Compton date: 4/16/10

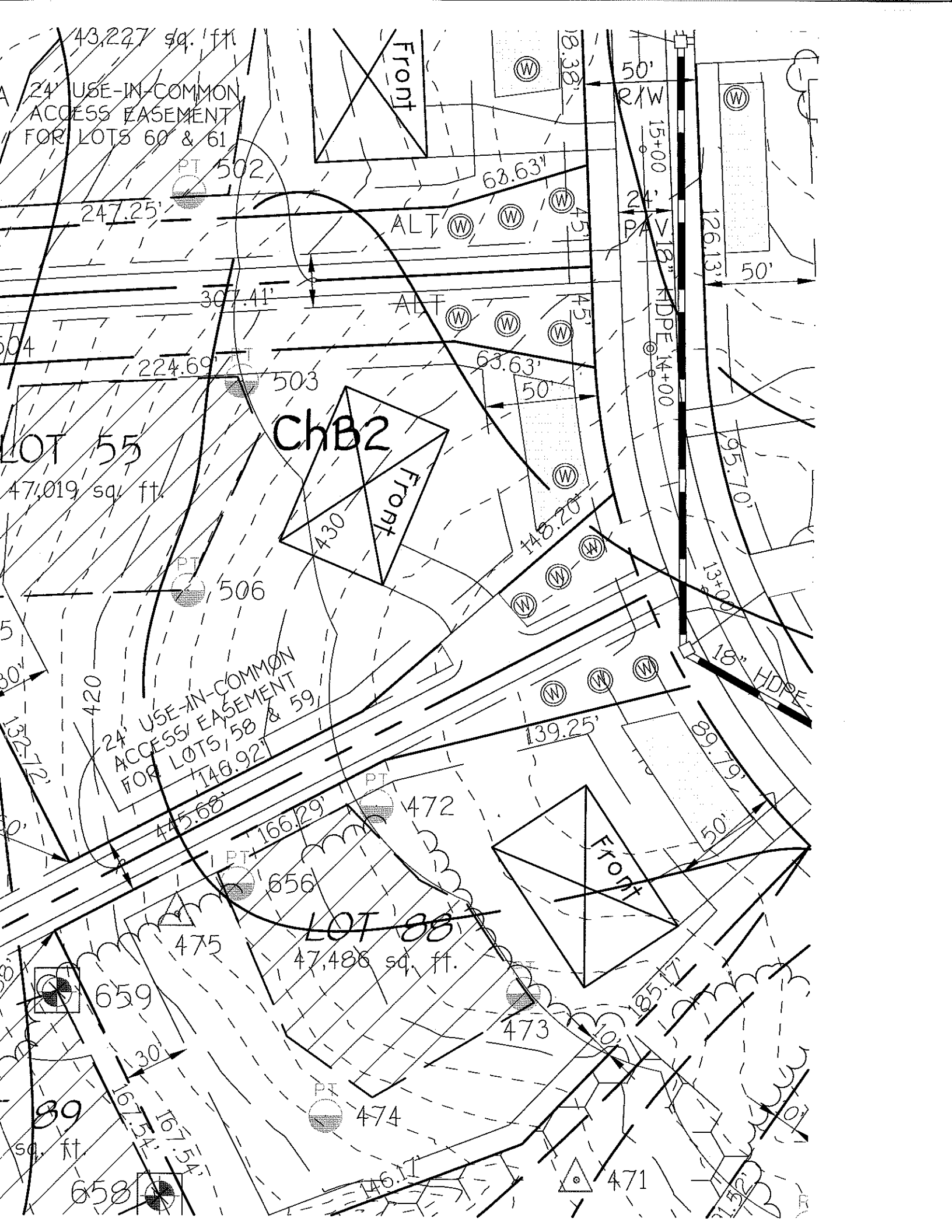
For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: _____ Date Insp. Approved: 3/3/2010 **BB**

Inspection Data:

Pitless adapter and water supply line at least 36" below grade	<input checked="" type="checkbox"/>
Two piece cap installed and attached to casing securely	<input checked="" type="checkbox"/>
Elec. conduit extends at least 18" below grade/attached to cap properly	<input checked="" type="checkbox"/>
Safety rope installed inside of well casing	<input checked="" type="checkbox"/>
Correct well tag attached properly and casing 8" above finished grade	<input checked="" type="checkbox"/>
Water supply line sleeved adequately at house connection	<input checked="" type="checkbox"/>
Adequate grout observed below pitless adapter	<input checked="" type="checkbox"/>





43,227 sq. ft.

24' USE-IN-COMMON ACCESS EASEMENT FOR LOTS 60 & 61

Front

50' R/W

PT 502

247.25'

63.63'

ALT

15+00

307.41'

ALT

24' PA

126.13'

50'

224.69'

503

63.63'

50'

LOT 55

ChB2

47,019 sq. ft.

Front

PT 506

506

145.20'

95.70'

24' USE-IN-COMMON ACCESS/EASEMENT FOR LOTS 58 & 59

PT 472

472

139.25'

89.79'

50'

475.68'

PT 656

656

Front

LOT 88

47,486 sq. ft.

475

473

185.17'

89

sq. ft.

167.54'

167.54'

PT 474

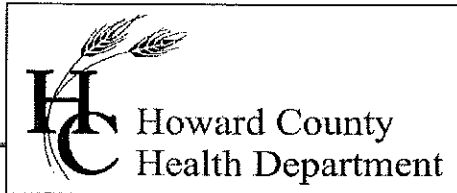
474

471

658

146.17'

132'



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 Beilenson, M.D., M.P.H., Health Officer

July 29, 2010

Homeowner
11251 Independence Way
Ellicott City, MD 21042

RE: Homewood Crossing, Lot 54
11251 Independence Way
BP #: B09002831
Well Tag: HO-95-0136

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 05/03/2010. Final approval of the well line connection to the dwelling was approved on 03/03/2010.**

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.

Gross Alpha and Beta samples were also collected on 11/18/2005. Results showed a Gross Alpha level of **1.3 + 0.8 pCi/L** and **Gross Beta** level of **4.0 + 1.3pCi/L**. The **Gross Alpha** was below the maximum contaminant level (MCL) of 15 pCi/L, while the Gross Beta was below the MCL of 50pCi/L. Future well water supply appears safe for all uses.

Enclosed with this certificate, is a copy of the septic permit and the as-built along with important information regarding the use and maintenance of your septic system. Please read through carefully and thoroughly. Any questions regarding your well and/or septic, please call this office for guidance 410-313-1771.

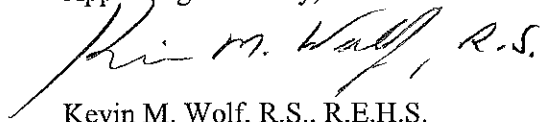
INTERIM CERTIFICATE OF POTABILITY

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-95-0136. 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: 07/22/2010
Date of Well Completion: 11/18/2005

Approving Authority,

A handwritten signature in black ink that reads "Kevin M. Wolf, R.S." with a stylized flourish at the end.

Kevin M. Wolf, R.S., R.E.H.S.
Environmental Sanitarian
Well & Septic Program

cc: Building Inspector's Office
Community Hygiene Program
File

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1343 Old Taneytown Rd., Westminster, MD 21156-3400 TEL: 410-876-4552 FAX: 410-848-0298

REPORT OF ANALYSIS

Laboratory ID #:	76150	Account #:	1930
Reference:	Toll Brothers Lot 54	Company:	Fogle's Well Drilling
Location:	11251 Independence Way Ellicott City, MD 21042	Requested By:	Dave Fogle
Date/ Time Collected:	7/22/2010 1127	Source:	Well Water
Date/Time Rec'd:	7/22/2010 1325	Site:	Kitchen Sink Tap
Chlorine ppm:	Free: ND Total: ND	Treatment:	None
Collected By:	J.Yeager 6176JY	pH:	6.1
		Well #:	HO-95-0136

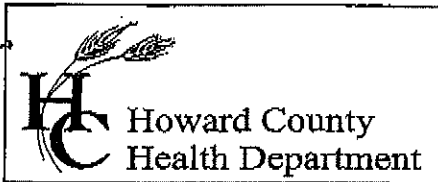
PARAMETER	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	7/23/2010 / 0830 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	7/23/2010 / 0830 / CCH
Nitrate	<1.0	mg/L	10	601	7/23/2010 / 1200 / CCH
Turbidity	1.82	NTU	<10	SM18 2130B	7/23/2010 / 0855 / KME
Sand	NS	mg/L	5	Visual/Gravimetric	7/23/2010 / 0900 / KME

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 and Chlorine level tested on site
- 8 Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy
 Building Permit # : 09-002831

Date Reported: 7/23/2010



Bureau of Environmental Health
7178 Columbia 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

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

January 5, 2006

Toll Brothers, Inc.
7164 Columbia Gateway Drive, Suite 230
Columbia, MD 21046

RE: Benedict Farm Subdivision, lot 54

Well Tag: HO-95-0136

To Whom It May Concern:

A sample was taken from a yield test on November 18, 2005 and submitted to Florida Radiochemistry Services, Inc. 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 activity in a water supply. In turn, this can provide information regarding naturally occurring radiation (i.e. Radionuclides) that may exist in your water supply.

Results from this screening revealed a **Gross Alpha** of 1.3 ± 0.8 picocuries/liter (pCi/L); while the **Gross Beta** level was 4.0 ± 1.3 pCi/L. The **Gross Alpha** result was below the maximum contaminant level (MCL) of 15 pCi/L, while the **Gross Beta** was below the MCL of 50 pCi/L. With respect to these parameters, your water supply is safe for all uses.

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

Sincerely,

A handwritten signature in cursive script that reads 'Bert Nixon'.

Bert Nixon, Assistant Director
Bureau of Environmental Health

Eric Dougherty, MDE, Water Mgmt., Groundwater
Well & Septic Property File