

B 1 5734 SEQUENCE NO. (MDE USE ONLY)

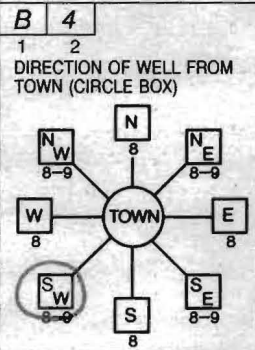
STATE OF MARYLAND PERMIT TO DRILL WELL 519599 please print or type

STATE PERMIT NUMBER H0-94-3880 fill in this form completely

Date Received (APA) 10 03 03 OWNER INFORMATION Proserve At Waverly Glen LLC 3625 Park Ave Ellicott City MD 21043

LOCATION OF WELL Howard The Preserve At Waverly Glen Woodstock I M I

DRILLER INFORMATION RALPH E. MAYNE M S D 112 RALPH E. MAYNE INC 17024 Handy Rd Mt Airy MD 21774



Mount DONALI DR. 280 37 230 38 39 10 23 102

WELL INFORMATION APPROX. PUMPING RATE 5 GAL. PER MIN. AVERAGE DAILY QUANTITY NEEDED 500 GAL. PER DAY

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard AS14619-M Mark K. Klein 1/30/05

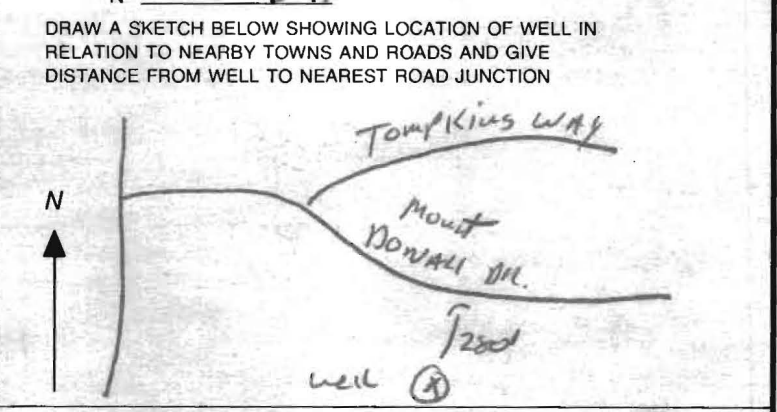
USE FOR WATER (CIRCLE APPROPRIATE BOX) D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

APPROXIMATE DEPTH OF WELL 150 FEET APPROXIMATE DIAMETER OF WELL 64 INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X 4/7/04 - 8:30 YAG 400' Deep 37' casing 30' open 15' Bays

METHOD OF DRILLING (circle one) AIR-ROTary

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) N THIS WELL WILL NOT REPLACE AN EXISTING WELL



Not to be filled in by driller (MDE OR COUNTY USE ONLY) H02003 GAP 005 PERMIT No. H0-94-3880

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94-3880
 Location of property (road) Mount Denali Dr
 Subdivision PRESERVE @ WAVERLY GLEN Lot 13 Block _____ Plat _____ Sec. _____
 Well Driller R Mayo Owner Preserve @ Waverly Glen LLC

Depth of well 400
 Distance of measuring point (M.P.) above ground 2'
 Static water level (S.W.L.) below M.P. 37'

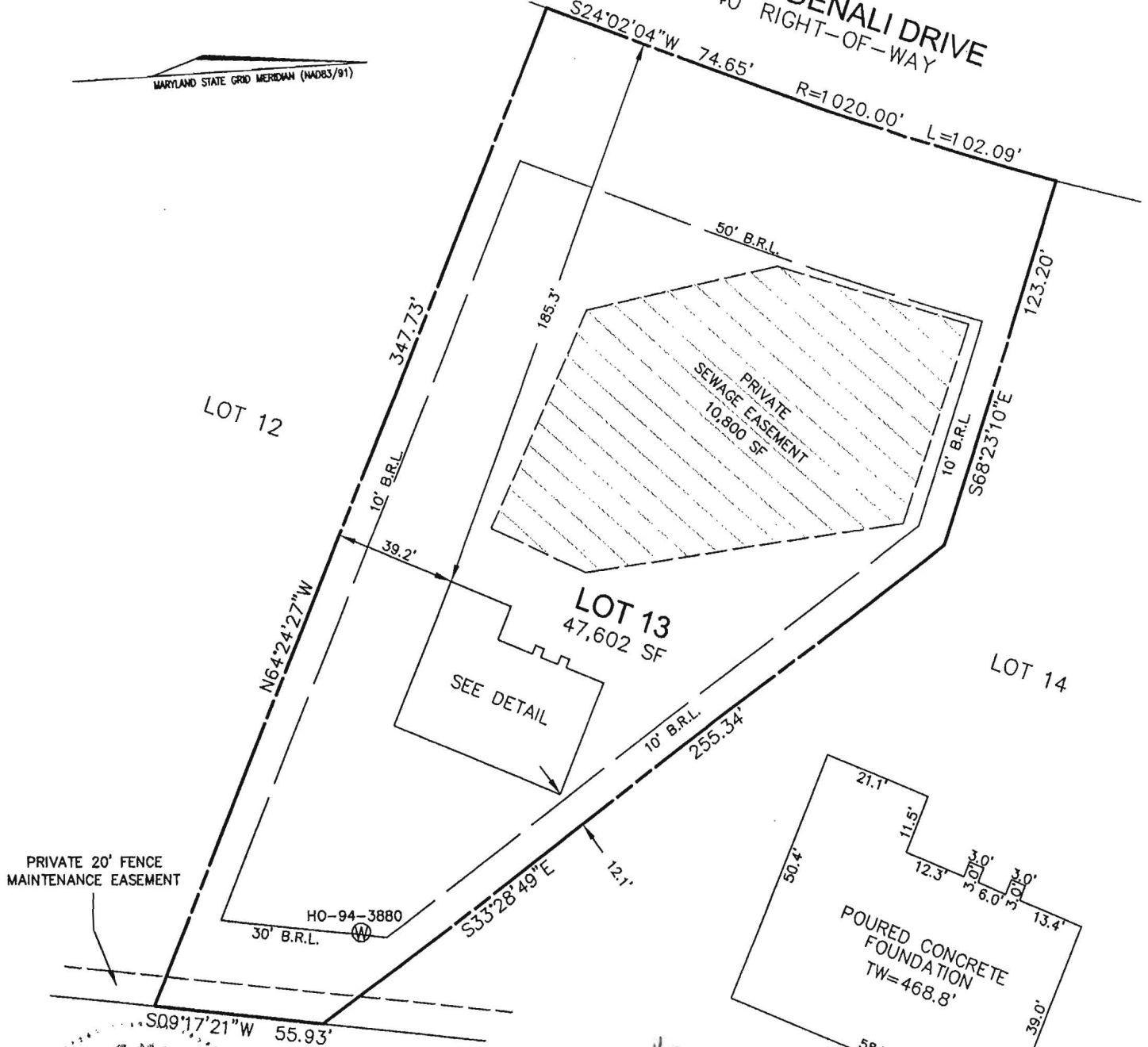
I. High rate pumping -- reservoir drawdown

Time pump started 8:00 Pumping rate 10 GPM
 Total time 30 min to reach pumping water level _____ ft. below M.P.

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

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
8:00	37 ft.	6 Sec	Test Started	10 GPM
8:30	160 ft	60 Sec		I GPM
8:45	160 ft	60 Sec		I GPM
9:00	166 ft	60 Sec		I GPM
9:15	160 "	60 "		I "
9:30	160 "	60 "		I "
9:45	160 "	60 "		I "
10:00	160 ft	60 Sec		I GPM
10:15	160 ft	60 Sec		I GPM
10:30	160 ft	60 Sec		I GPM
10:45	160 "	60 "		I "
11:00	160 "	60 "		I "
11:15	160 "	60 "		I "
11:30	160 ft	60 Sec		I GPM
11:45	160 ft	60 Sec		I GPM
12:00	160 ft	60 Sec		I GPM
12:15	160 "	60 "		I "
12:30	160 "	60 "		I "
12:45	160 "	60 "	370 ASNG	I "
1:00	160 ft	60 Sec	30 open	I GPM
1:15	160 ft	60 Sec	15 bits	I GPM
1:30	160 ft	60 Sec		I GPM
1:45	160 "	60 "		I "
2:00	160 "	60 "		I "
HD-224215	160 ft	60 Sec		I GPM
230	160 ft	60 Sec		I GPM

MARYLAND STATE GRID MERIDIAN (NAD83/91)



PRIVATE 20' FENCE MAINTENANCE EASEMENT

HO-94-3880

Wall check
OK 7-9-10
RH

DETAIL: 1"=30'



I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN AND THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN.

Thomas M. Hoffman Jr. 7-07-10
THOMAS M. HOFFMAN JR., PROPERTY LINE SURVEYOR #267 DATE

B.P.# B10001021
1863 MOUNT DENALI DRIVE

THIS WALL CHECK DRAWING CONTAINS A HORIZONTAL TOLERANCE IN ACCURACY OF 0.1' AND A VERTICAL TOLERANCE IN ACCURACY OF 0.2'

SCALE 1"=50'	DATE 07/06/10
DRAWN BY A.M.S.	CHECKED BY T.M.H.
PLAT NUMBER 17059-17070	JOB NUMBER 00-139.01

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS - SURVEYORS - PLANNERS
8407 MAIN STREET
ELLCOTT CITY, MARYLAND 21043
TEL:410-461-7666 FAX:410-461-8961

WALL CHECK DRAWING
LOT 13
THE PRESERVE
AT WAVERLY GLEN
PLAT No. 17061
THIRD ELECTION DISTRICT
HOWARD COUNTY MARYLAND

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

ATTENTION WELL DRILLERS!!!

When submitting a well application for a new or replacement well, please indicate one of the following:

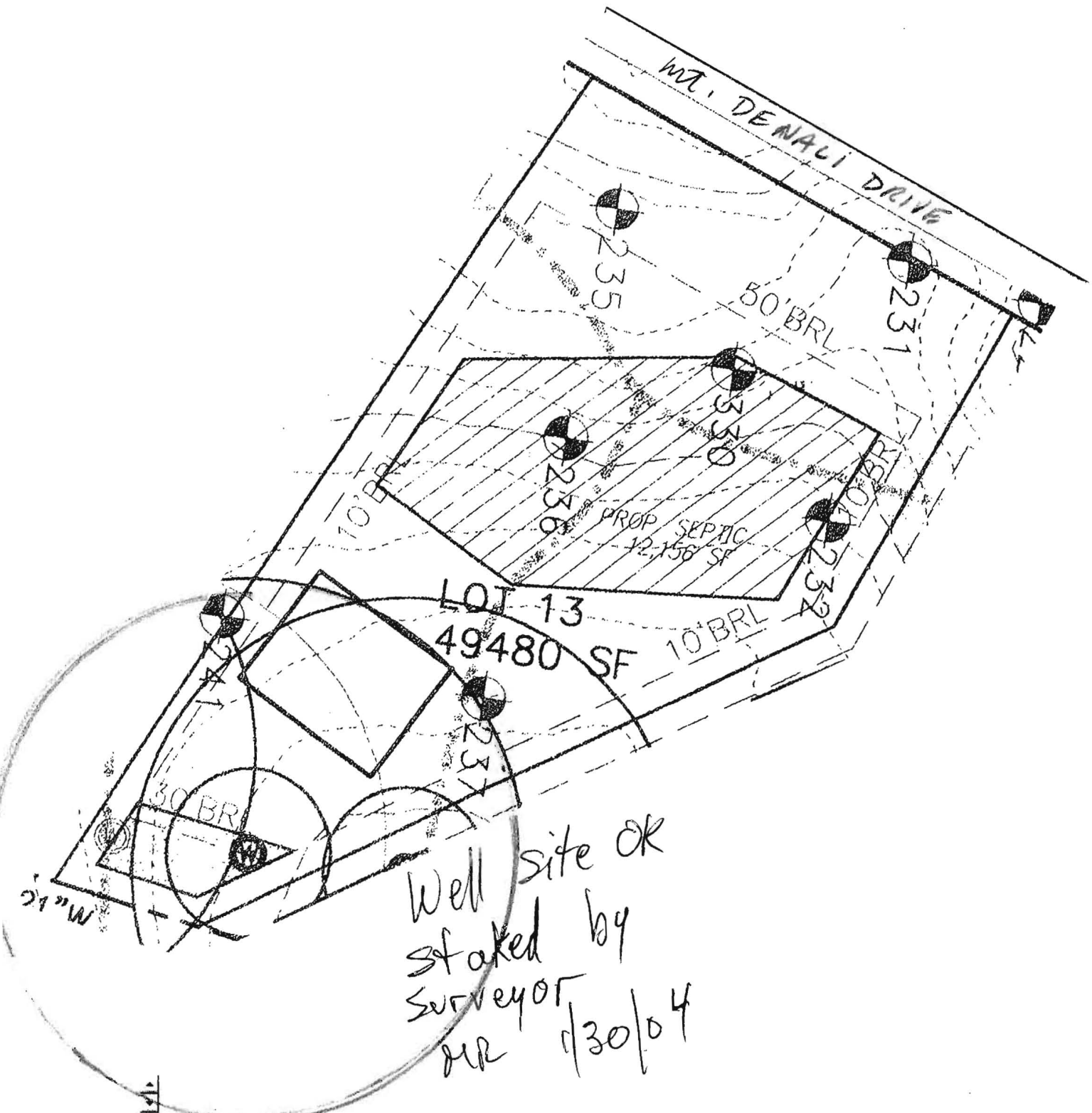
- The well site has been staked by Owner on JAN 24 2011 and is ready for site inspection.
- _____ will call the Health Department for a time to meet in the field to verify a well location.
- Site plan for new well is attached to well permit application.

Please attach this sheet when submitting your green application. This should help improve communication allowing a more timely service for our citizens.

KN

ATT ~~Steve~~ ~~Leaf~~
Owner Re Preserve at Waverly Glen / Trinity Bldg
Lot 13 off Mount Denaly way
Sub- Re Preserve at Waverly Glen

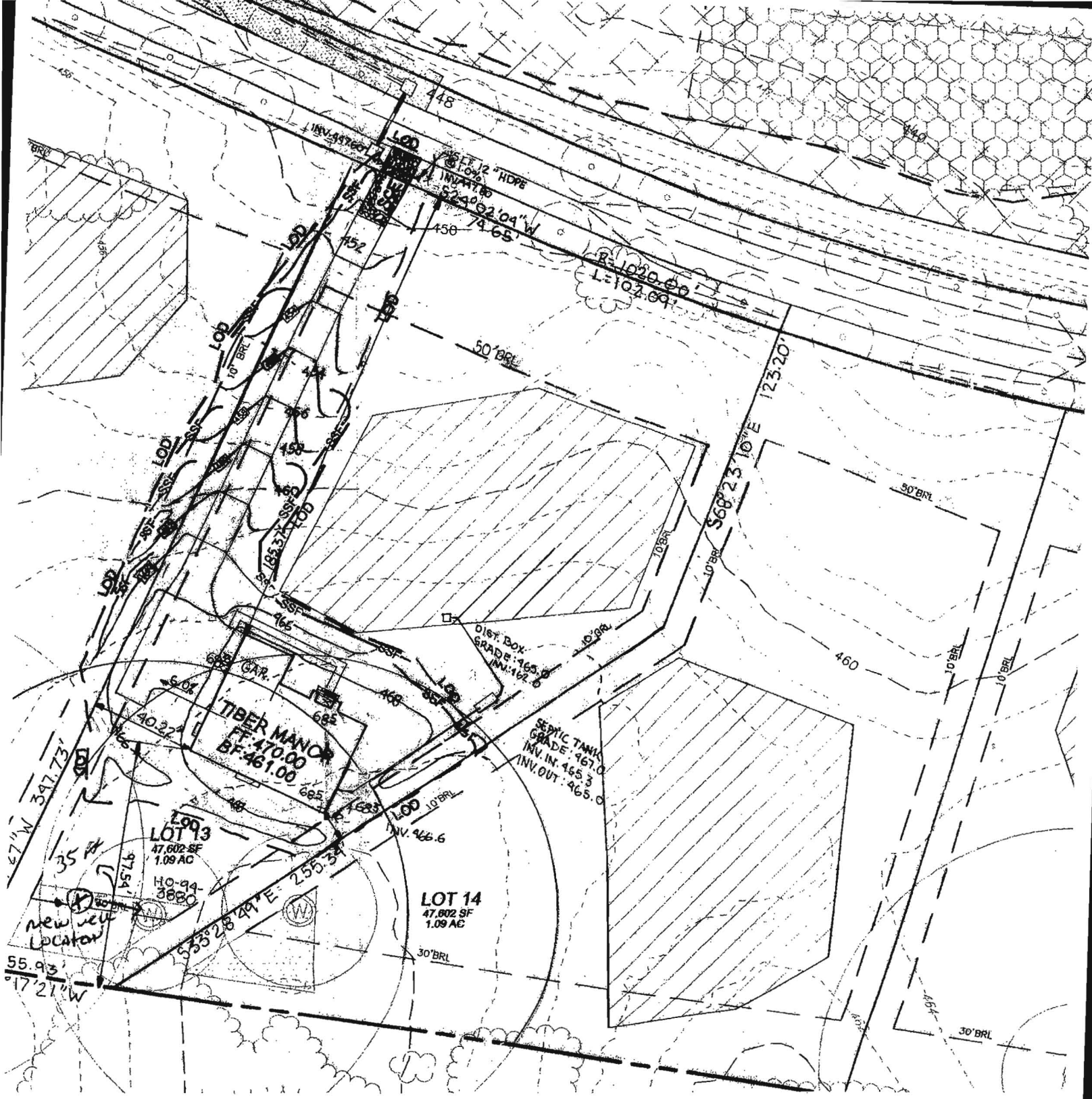
PRESERVE AT WAVERLY GLEN



Well site OK
staked by
Surveyor
MR 1/30/04

WELL LOCATION SURVEY

SCALE 1" = 50'



DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT:

PLAN

SCALE: 1"=50'

EROSION
 PLAN
 CONDITIONS
 THE
 N DISTRICT.

3/30/05
 DATE

Michael L. Pfall
 MICHAEL L. PFALL

8/29/05
 DATE



TRACE LABORATORIES, INC
 5 North Park Drive
 Hunt Valley, MD 21030 USA
 Telephone: 410/584-9099 / Fax: 410/584-9117
 Website: www.tracelabs.com / Email: info@tracelabs.com

Maryland State Certified Laboratory #318

CERTIFICATE OF ANALYSIS

Requester:

Trinity Homes/TBI Homes
 3675 Park Avenue Suite 301
 Ellicott City, MD 21043

S/O Number: 80606

Report Date: March 8, 2011

Property Sampled: 1863 Mount Denali Drive, 21163
Sample Location: Outside Tap
Residual Chlorine: <0.1 mg/L

Building Permit #: B10001021
Sampler ID #: 9813AM
Samples Iced: Yes

County: Howard
Map: 10

Subdivision: Preserve at Waverly Glen
Parcel: 330 **Lot #:** 13

Date/Time Collected in Field: March 7, 2011 @ 12:45 pm
Date/Time Received in Lab: March 7, 2011 @ 2:45 pm

Well Tag #: HO-94-3880
Well Condition: 2-Piece Cap, Satisfactory

Water Treatment/Conditioning: Not Observed

PARAMETER	METHOD	MCL/*SMCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	Absent	Pass
<i>E. coli</i>	SM 9223B	Absent	Absent	Pass
Nitrate	SM 4500D	10 mg/L as N	<1.0 mg/L as N	Pass
Turbidity	EPA 180.1	10 NTU	1.3 NTU	Pass
pH	EPA 150.1	*6.5-8.5 Units	7.1 Units	***
Sand		Negative	Negative	

Katherine C. Higgs

Katherine C. Higgs
 Administrative Assistant

MCL: Maximum Contamination Level, an enforceable level established by the EPA
 *SMCL: Secondary Maximum Contamination Level, a level recommended by the EPA
 ***A non-enforceable parameter that may cause cosmetic effects or aesthetic effects (such as taste, color or odor) in drinking water.



TRACE LABORATORIES, INC
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 Hunt Valley, MD 21030 USA
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Maryland State Certified Laboratory #318

CERTIFICATE OF ANALYSIS

Requester:

Trinity Homes/TBI Homes
 3675 Park Avenue Suite 301
 Ellicott City, MD 21043

S/O Number: 80606

Report Date: March 14, 2011

Property Sampled: 1863 Mount Denali Drive, 21163
Sample Location: Outside Tap
Residual Chlorine: <0.1 mg/L

Building Permit #: B10001021
Sampler ID #: 9813AM
Samples Iced: Yes

County: Howard
Map: 10

Subdivision: Preserve at Waverly Glen
Parcel: 330 **Lot #:** 13

Date/Time Collected in Field: March 7, 2011 @ 12:45 pm
Date/Time Received in Lab: March 7, 2011 @ 2:45 pm

Well Tag #: HO-94-3880
Well Condition: 2-Piece Cap, Satisfactory

Water Treatment/Conditioning: Not Observed

PARAMETER	METHOD	DETECTION LIMIT	MCL*	RESULT	ACCEPTABILITY
Gross Alpha	EPA 900.0	1.1 pCi/L	15 pCi/L	12.4 ± 2.2 pCi/L	Acceptable
Gross Beta	EPA 900.0	2.0 pCi/L	50 pCi/L	11.2 ± 1.7 pCi/L	Acceptable

*Note: There are no established limits set forth by the EPA for radionuclide particles in private well water. The limits for public water are instead provided as MCLs in this report. The acceptability of this sample is based on these requirements.

Katherine C. Higgs
 Katherine C. Higgs
 Administrative Assistant

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: March 3 2011 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any)

HO - 94 - 3880

* PERMIT NUMBER OF REPLACEMENT WELL

HO - 95 - 2046

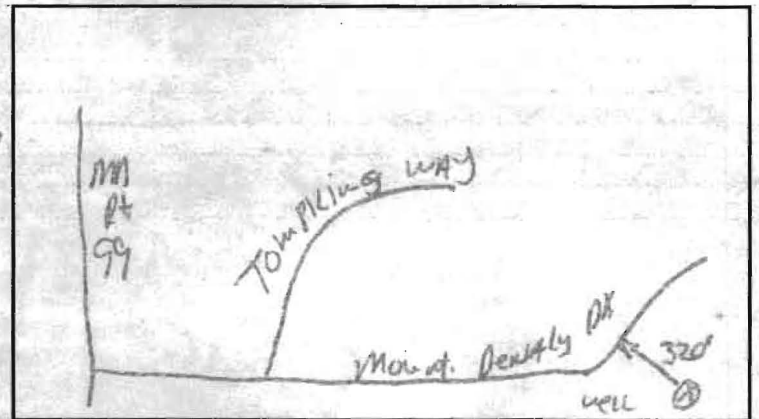
* PERSON ABANDONING WELL: Ralph E. Mayne

WELL DRILLERS LICENSE NUMBER: _____
CIRCLE: MWD/MSD/MGD

* OWNER'S NAME: Trinity Bld./Preserve at Waverly Glen

SITE LOCATION MAP

* WELL LOCATION:
COUNTY: Harford
NEAREST TOWN: WOODSTOCK
TAX MAP 10 BLOCK 23 PARCEL 330
SUBDIVISION: The Preserve at Waverly Glen
SECTION: _____ LOT: 13
NEAREST ROAD: Mount Denaly Dr.
1863 2/8/11



* TYPE OF WELL BEING ABANDONED:

- DRILLED JETTED
- BORED/AUGERED HAND DUG
- OTHER (specify) _____

* USE CODE:

- DOMESTIC MUNICIPAL/PUBLIC
- IRRIGATION INDUSTRIAL
- TEST/OBSERVATION GEOTHERMAL

* TYPE OF CASING:

- STEEL PLASTIC
- CONCRETE OTHER (specify) _____

* SIZE OF CASING: 6 1/4 INCHES IN DIAMETER

* DEPTH OF WELL: 400 FEET DEEP

* WAS ANY CASING REMOVED? YES NO
if yes, length removed, in feet: 3

* WAS CASING RIPPED OR PERFORATED? YES NO

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
Blue Stone	400	20
Cement	20	2
Top Soil	2	0
VOLUME OF MATERIAL USED		
6 Tow Stone 8 Bags		

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

LICENSE # 117

CIRCLE ONE

DATE 4/3/11

B 1 8493

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-95-2046 fill in this form completely

534457 please type

Date Received (APA) 01 25 11

OWNER INFORMATION

Prescove At Waverly Glenn, 3675 Park Ave, Ellicott City MD, 21043

LOCATION OF WELL

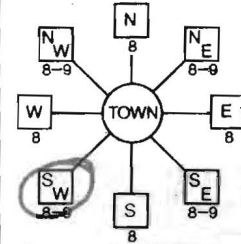
Howard County, The Preserve at Waverly Glenn, Woodstock, NEAREST TOWN

MILES FROM TOWN (enter 0 if in town) 1.1

DRILLER INFORMATION

Ralph E. Mayne, MS D 117, MS D Well Drilling, 17024 Handy Rd Mt. Airy MD, 21771, 1/24/2011

DIRECTION OF WELL FROM TOWN (CIRCLE BOX) SW



Mount Denny Dr. NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) EAST, DISTANCE FROM ROAD 315 FT

TAX MAP: 10 BLK: 23 PARCEL 330

WELL INFORMATION, APPROX. PUMPING RATE 5 GAL. PER MIN., AVERAGE DAILY QUANTITY NEEDED 500 GAL. PER DAY

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- Domestic Potable Supply & Residential Irrigation (D), Farming (F), Industrial, Commercial, Dewatering (I), Public Water Supply Well (P), Test, Observation, Monitoring (T), Geo-Thermal (G)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard (13) A514619M, COUNTY NAME, COUNTY NO.

STATE SIGNATURE, DATE ISSUED 1/31/2011, CO SIGNATURE Brian Baper 1/31/2012, NORTH GRID 541 000, EAST GRID 832 000

APPROXIMATE DEPTH OF WELL 150 FEET, APPROXIMATE DIAMETER OF WELL 64 INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

Radium

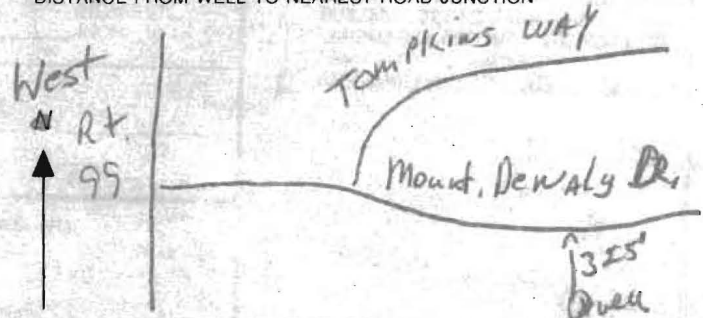
SOURCES OF DRILLING WATER: 1. well

2/28/11 Sample collected during yield.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 8312, N 541

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



REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- This well will not replace an existing well (N), This well will replace a well that will be abandoned and sealed (Y), This well will replace a well that will be used as a standby-contact local approving authority for policy on standby wells (S), This well will deepen an existing well (D)

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 HO-94-3880

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

APPROP. PERMIT NUMBER G

PERMIT No. HO-95-2046

SPECIAL CONDITIONS

Well Must Be At Least 10' From All Property Lines

C1 15977

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 A514619m

ST/CO USE ONLY DATE Received MM 03 DD 01 YY 11

DATE WELL COMPLETED MM 02 DD 28 YY 11

Depth of Well 400 (TO NEAREST FOOT)

3/2/2011 O.K. (BB)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-2046

OWNER Preserve at Waverly Glen Trinity 3LD STREET OR RFD 1865 Mount Denaly Dr. TOWN Elkridge City MD. SUBDIVISION The Preserve at Waverly Glen SECTION LOT 13

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 Top Soil, Sandy Sandstone, MICKA, Sand Stone, MICKA, Flint Rock, MICKA.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES [Y] NO [N] TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC] NO. OF BAGS 8 NO. OF POUNDS 800 GALLONS OF WATER 48 DEPTH OF GROUT SEAL (to nearest foot) from 48 TOP 52 ft. to 54 BOTTOM 58 ft.

CASING RECORD

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 30 OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD

screen type or open hole insert appropriate code below [ST] [BR] [HO] [PL] [OT]

C3

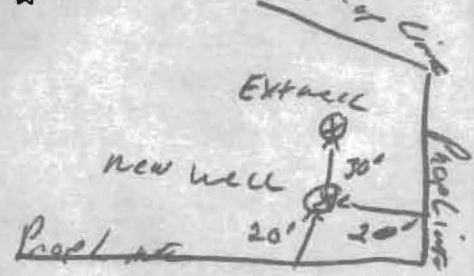
PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 4.6 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 340 ft. WHEN PUMPING 297 ft. TYPE OF PUMP USED (for test) [S] submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP 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 LAND SURFACE [-] below 12 (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)



NUMBER OF UNSUCCESSFUL WELLS: 1

WELL HYDROFRACTURED YES [Y] NO [N]

CIRCLE APPROPRIATE LETTER 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 MSD 118 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)

Table with columns: DEPTH (nearest ft.), E A C H C A S I N G, S L O T S I Z E 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

**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: Do It Plumbing & Heating LLC Telephone #: 240-882-0069
Address: 9955 Old Mill Rd.
Fillicott City, MD 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): Duane Gilbert License# 21899

***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: TBI Telephone #: 410-480-0023
Subdivision: Preserve of Waverly Glen Lot #: 13 Well Tag #: HO-95-2042
Site Address: 1863 Mount Denali Dr.
Woodstock, MD 21163

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>Moris</u>	Make: <u>American Grubby</u>	Two piece watertight cap: <u>yes</u>
Model #: <u>2552-5plw 44.1</u>	Model #: <u>PT300</u>	Screened, vented well cap: <u>yes</u>
Pump Capacity <u>12</u> GPM	Depth: <u>yes</u> (36" min)	Cap secured to casing: <u>yes</u>
Well Yield: <u>6</u> GPM	NSF approved: <u>yes</u>	Conduit min 18" B.G.: <u>yes</u>
Depth of well encountered at time of pump installation: <u>397</u> (feet)		Conduit secured to well cap: <u>yes</u>

^{yes}-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 NO

Piping to house

Type: plastic - one inch
PSI: yes (160 psi min)
Depth of supply line: yes (36" min)

House Connection

PVC sleeved to undisturbed soil at wall penetration: yes
Approximate length of sleeve: 10 ft
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

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

Date Insp. Requested: _____ Date Insp. Approved: 3/1/2011 BB/KW
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 ✓



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

March 16, 2011

Homeowner
1863 Mount Denali Drive
Woodstock, MD 21163

RE: The Preserve at Waverly Glen, Lot 13
1863 Mount Denali Drive
BP #: B10001021
Well Tag: HO-95-2046

Dear Homeowner:

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 01/31/11. Final approval of the well line connection to the dwelling was approved on 03/01/2011.**

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 03/07/2011. Results showed a Gross Alpha level of **12.4+- 2.2pCi/L** and **Gross Beta** level of **11.2+-1.7 pCi/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-95-2046 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: 03/07/2011
Date of Radium Samples: 03/07/2011
Date of Well Completion: 02/28/2011

Approving Authority,



Brian Baker, R.S.
Environmental Sanitarian
Well & Septic Program

cc: Building Inspector's Office
Community Hygiene Program
File



Howard County
Health Department

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

April 7, 2011

Trinity Quality Homes, Inc.
3675 Park Avenue #301
Ellicott City, Maryland 21043

RE: **Preserve @ Waverly Glen Lot 13**
1863 Mt. Denali Drive
Well Tag: HO - 95 - 2046

To Whom It May Concern:

A sample was collected during a yield test on February 28, 2011 and submitted to the Department of Health & 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. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of 26.6 ± 3.5 picocuries/liter (pCi/L); while the **Gross Beta** level was 14.6 ± 2.2 pCi/L. The **Gross Alpha** result was above its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its targeted 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 **may not** be safe for all uses. Additional testing for **these parameters, plus Radium 226 and Radium 228** will be required to secure the future Use & Occupancy. Given the elevated finding for **Gross Alpha**, the installation of a water softener system or a reverse osmosis system will likely be necessary. **Post short and long term Gross Alpha and Beta, plus a post Radium 226 / 228** will be needed to properly evaluate the effectiveness of the installed treatment. Given that it typically takes up to one month to perform and receive back the **Radium** analyses, plan accordingly. Also note, this is in addition to other standard testing parameters (bacteria, nitrate, turbidity and sand) that will still be required.

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 or to discuss additional testing requirements.

Sincerely,

Bert Nixon, Director
Bureau of Environmental Health

Enclosure

cc: Barry Glotfelty, MDE Water Mgmt.

✓ Well & Septic property file

Send Report To:

Bert Nixon

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
RADIATION LABORATORY

201 W. Preston Street, Baltimore, Maryland 21201
John M. DeBoy, Dr. P. H., Director

Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, Maryland 21046

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: H0-95-2046 No. B: _____ Field Blank Bottle No. 1: ✓ No B: _____

Plant/Site Name: Preserve @ Waverly Lakes Lot (13) County: Howard

Sample Source: 1863 Mt. Denali Dr. (well) Location: H0-95-2046
(well no, lab sink, sample tap, etc.)

County: Plant No.

CHECK (one per box)

Drinking Water
Landfill
Stream
Other

Community
Non-community
Private
Other

Source (raw water)
Distribution (treated)
MCL

Emergency
Routine
Recheck
Special

Collector: K. Wolf

Telephone No.: 410-313-2645

Date Collected: 2/28/11 *Cont*

Time Collected: 11:00 a.m. _____ p.m.

Nitric Acid Preserved: Yes No

Iced: Yes No

Submitters Code: Federal Project:

Field Data: _____
pH _____ Chlorine _____

Remarks: Sample collected @ Yield - pH preserved to < 2.0

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
✓	Gross Alpha	4000	1441	26.6 ± 3.3	03/03/11	03/04/11
✓	Gross Beta	4100	1441	14.6 ± 2.2	"	"
	Radon-222 Bottle A	4004				
	Radon-222 Bottle B	4004				
	Field Blank #A	4004				
	Field Blank #B	4004				
	Tritium					
	Ra - 226	4020	10			
	Ra - 228	4030				
	Total Uranium	4006				

Date Received: 03/01/11

Supervisor: [Signature]

•Tel. No.: (410) 767 - 5537 •Fax No.: (410) 333- 5373

Send Report To:

E001440 2-1 1

Boyd Nixon
(none)

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
RADIATION LABORATORY
201 W. Preston Street, Baltimore, Maryland 21201
John M. DeBoy, Dr. P. H., Director

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: H0FB22311 No. B: _____ Field Blank Bottle No. 1: _____ No B: _____

Plant/Site Name: Blank County: Howard

Sample Source: Field Blank - Distilled H₂O Location: Distilled H₂O
(well no, lab sink, sample tap, etc.)

County: Plant No.

CHECK (one per box)

Drinking Water
Landfill
Stream
Other

Community
Non-community
Private
Other

Source (raw water)
Distribution (treated)
MCL

Emergency
Routine
Recheck
Special

Collector: K. Wolf

Telephone No.: 410/313 2445

Date Collected: 2/28/11

Time Collected: 10:00 a.m. _____ p.m.

Nitric Acid Preserved: Yes No

Iced: Yes No

Submitters Code:

Federal Project:

Field Data: _____
pH _____ Chlorine _____

Remarks: Field Blank

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
	Gross Alpha	4000	1440	< 2.0	03/03/11	03/09/11
	Gross Beta	4100	1440	< 4.0	"	"
	Radon-222 Bottle A	4004				
	Radon-222 Bottle B	4004				
	Field Blank #A	4004				
	Field Blank #B	4004				
	Tritium					
	Ra - 226	4020				
	Ra - 228	4030				
	Total Uranium	4006				

Date Received: 03/01/11

Supervisor: [Signature]

•Tel. No.: (410) 767 - 5537 •Fax No.: (410) 333- 5373