

C1 3837

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 A516084

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 5 4 05

Depth of Well 200 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 110-94-405B

OWNER Winchester Homes, STREET OR RFD Kinsale Ct, TOWN Elliott City, SUBDIVISION Riverwood, SECTION 1, LOT 36

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Brown mica Quartz, Gray mica of Quartz, and Gray mica of Quartz.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL: CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS 92, NO. OF POUNDS 9200, GALLONS OF WATER 550, DEPTH OF GROUT SEAL 68 ft.

CASING RECORD: MAIN CASING TYPE ST (STEEL), Nominal diameter 6 inch, Total depth of main casing 91 feet.

OTHER CASING (if used) section with columns for diameter and depth.

SCREEN RECORD: screen type or open hole ST (STEEL), BR (BRASS), HO (OPEN HOLE), PL (PLASTIC), OT (OTHER).

NUMBER OF UNSUCCESSFUL WELLS: 0, WELL HYDROFRACTURED: Y

CIRCLE APPROPRIATE LETTER: A (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. 1 MWD 040, DRILLERS SIGNATURE George F. Easterday, LIC. NO. 1 AWD 788

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

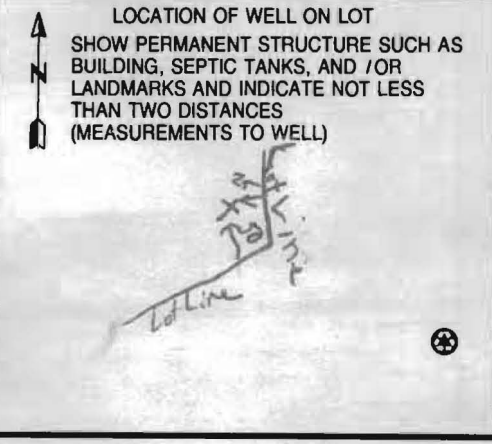
DEPTH (nearest ft.) table with columns 1-27 and rows E, A, C, H, S, C, R, E, N.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 88

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

PUMPING TEST: HOURS PUMPED 3, PUMPING RATE 10 gal. per min., METHOD USED TO MEASURE PUMPING RATE Bucket, WATER LEVEL 26 ft. BEFORE PUMPING, 59 ft. WHEN PUMPING, TYPE OF PUMP USED 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, - below, LAND SURFACE 2 (nearest foot)



B 1 9728

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

520762 please type

STATE PERMIT NUMBER

HO-94-4058 fill in this form completely

Date Received (APA)

08/11/04

OWNER INFORMATION

9777

Winchester Homes, Inc
6905 Rockledge Drive, Suite 800
Bethesda, Md 20817

B 3

LOCATION OF WELL

Howard
Riverwood
SUBDIVISION 1
LOT 36
Clarksville Ellicott City
NEAREST TOWN
MILES FROM TOWN 3

DRILLER INFORMATION

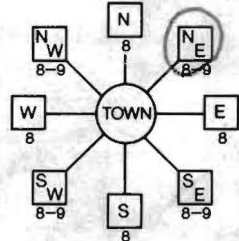
George F. Easterday

M W D 040

L. Franklin Easterday, inc.
9265 Brown Church Rd., MT. Airy, Md. 21771

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Kinsale Court

NEAR WHAT ROAD
ON WHICH SIDE OF ROAD
DISTANCE FROM ROAD 350 Ft.
TAX MAP: 23 BLK: 21 PARCEL 86

B 2

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 500

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14

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 AS16084
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S
DATE ISSUED 10/27/04
CO SIGNATURE 10/27/05
NORTH GRID 513 000 EAST GRID 827 000

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered)
AIR ROTARY
CABLE
other
JETTED
AIR-PERCussion
REVERSE-ROTARY
Jetted & DRIVEN
ROTARY (Hydraulic 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

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41

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

APPROX. PERMIT NUMBER HO 2004 G 007
PERMIT No. HO-94-4058

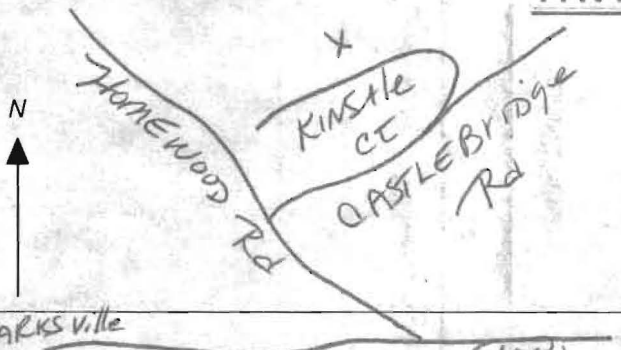
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

- SOURCES OF DRILLING WATER
1. wells
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

510 827
827 513

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 14 K 1



SPECIAL CONDITIONS

NOTE: APPROVING 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: 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# P10145

\*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: WINCHESTER HOMES Telephone #: 301-803-4174
Subdivision: RIVERWOOD Lot #: 36 Well Tag #: HO-94-4058
Site Address: 11230 KINGSALE CT
ELLICOTT CITY MD

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Grundfos Make: Campbell Two piece watertight cap: [checked]
Model #: 15 SQE07-180 Model#: PA 800 Screened, vented well cap: [checked]
Pump Capacity 15 GPM Depth: 48" (36" min) Cap secured to casing: [checked]
Well Yield: 10 GPM NSF approved: YES Conduit min 18" B.G.: [checked]
Depth of well encountered at time of pump installation: 200 (feet) Conduit secured to well cap: [checked]
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 - CPS
Safety rope, if used, attached to inside of well casing with eye bolt N/A

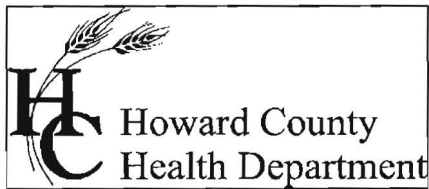
Piping to house House Connection
Type: Poly PVC sleeved to undisturbed soil at wall penetration: YES
PSI: 160 (160 psi min) Approximate length of sleeve: 5'
Depth of supply line: 4' (36" min) Sleeve caulked and sealed properly: YES

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 11/5/09

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

Date Insp. Requested: Date Insp. Approved: 7/2/08 (138)
Inspection Data: Pitless adapter and water supply line at least 36" below grade [checked]
Two piece cap installed and attached to casing securely [checked]
Elec. conduit extends at least 18" below grade/attached to cap properly [checked]
Safety rope installed inside of well casing [checked]
Correct well tag attached properly and casing 8" above finished grade [checked]
Water supply line sleeved adequately at house connection [checked]
Adequate grout observed below pitless adapter [checked]



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

December 15, 2009

Occupant  
11230 Kinsale Court  
Ellicott City, MD 21042

RE: Riverwood I, Lot 36  
11230 Kinsale Court  
BP# B08003545  
Well Tag #: HO-94-4058

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 12/01/2009. Final approval of the well line connection to the dwelling was approved on 07/02/2009.**

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 05/03/2005. Both findings were below the maximum limit suggested by the EPA. At the time of the 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 and Occupancy.

Enclosed with this certificate, are copies of the septic permit and the septic 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-94-4058. 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: 12/01/2009  
Date of Samples for Gross Alpha & Gross Beta: 05/03/2005  
Date of Well Completion: 05/04/2005

Approving Authority,



Kevin Wolf, Sanitarian  
Well & Septic Program

cc: Building Inspector's Office  
Community Health Services  
File

# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd., Westminster, MD 21157 (410) 848-1014 (410) 876-4584 FAX (410) 848-1298

## REPORT OF ANALYSIS

Laboratory ID #:	73669	Account #:	3123
Reference:	Riverwood Lot 36	Company:	National Water Servicing
Location:	11230 Kinsale Court Ellicott City, MD 21042	Requested By:	Dave Rycke
Date/ Time Collected:	12/1/2009 1035	Source:	Well Water
Date/Time Rec'd:	12/1/2009 1315	Site:	Pressure Tank
Chlorine ppm:	Free: ND Total: ND	Treatment:	Sediment Filter**
Collected By:	J.Yeager 6176JY	pH:	6.7
		Well #:	HO-94-4058

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Colliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	12/2/2009 / 0845 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	12/2/2009 / 0845 / CCH
Nitrate	<1.0	mg/L	10	601	12/1/2009 / 1510 / CCH
Turbidity	8.97	NTU	<10	SM18 2130B	12/1/2009 / 1500 / CCH
Sand	NS	mg/L	5	Visual/Gravimet	12/1/2009 / 1500 / CCH

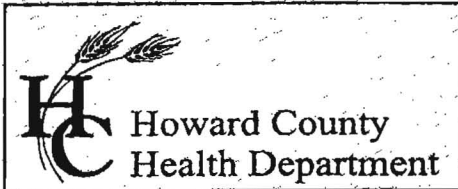
*OK*  
*(Kw)*

### NOTES

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

Reason for Test : Use & Occupancy  
Building Permit # : B08003545

Date Reported: 12/2/2009



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

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

May 31, 2005

Winchester Homes, Inc.  
6905 Rockledge Drive, Suite 800  
Bethesda, MD 20817

RE: Riverwood Subdivision, lot 36  
Open Run Road

To Whom It May Concern:

Samples were taken from a yield test on May 3, 2005 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  $4 \pm 1$  picocuries/liter (pCi/L); while the **Gross Beta** level was  $7 \pm 2$  pCi/L. The **Gross Alpha** result was below the respective **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** was below the MCL of 50 pCi/L.

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 concerns.

Sincerely,

Bert Nixon, Assistant Director  
Bureau of Environmental Health

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

Send Report To:

State of Maryland

DHMH - Laboratories Administration

Division of Environmental Chemistry

**RADIATION LABORATORY**

201 W. Preston Street, Baltimore, Maryland 21201

J. Mehsen Joseph, Ph.D., Director

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

### LABORATORY ANALYSIS REQUEST

110-EC-4058

Sample Bottle No. A: \_\_\_\_\_ No. B: \_\_\_\_\_ Field Blank Bottle No. 1: \_\_\_\_\_ No. 2: \_\_\_\_\_

Plant/Site Name: \_\_\_\_\_ County: Howard

Sample Source: Riverwood lot 36 Location: on lot # (4094402)  
(well no., lab sink, sample tap, etc.)

County:  1  3 Plant No.

Collector: H. Oughton Telephone No.: 410-313-2771

Date Collected: 5/13/05 Time Collected: 9:40 a.m. \_\_\_\_\_ p.m.

Nitric Acid Preserved: Yes  No  Iced: Yes  No

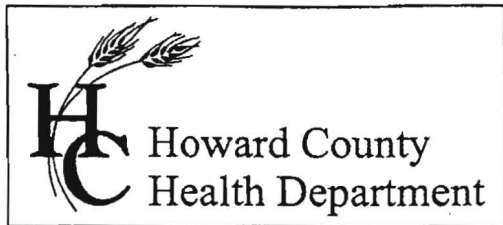
Submitters Code:   Federal Project:  S Field Data: 6.5 pH 00 Chlorine

Remarks: PRE (YIELD TEST)

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	<u>2143</u>	<u>451</u>	<u>05/06/05</u>
✓	Gross Beta	4100	<u>2143</u>	<u>712</u>	<u>05/06/05</u>
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank #1	4004			
	Field Blank #2	4004			
	Tritium				
	Ra-226	4020			
	Ra-228	4030			
	Total Uranium	4006			

Date Received: 05/13/05

Section Chief: S. Wase



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

### ATTENTION WELL DRILLERS!!!

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

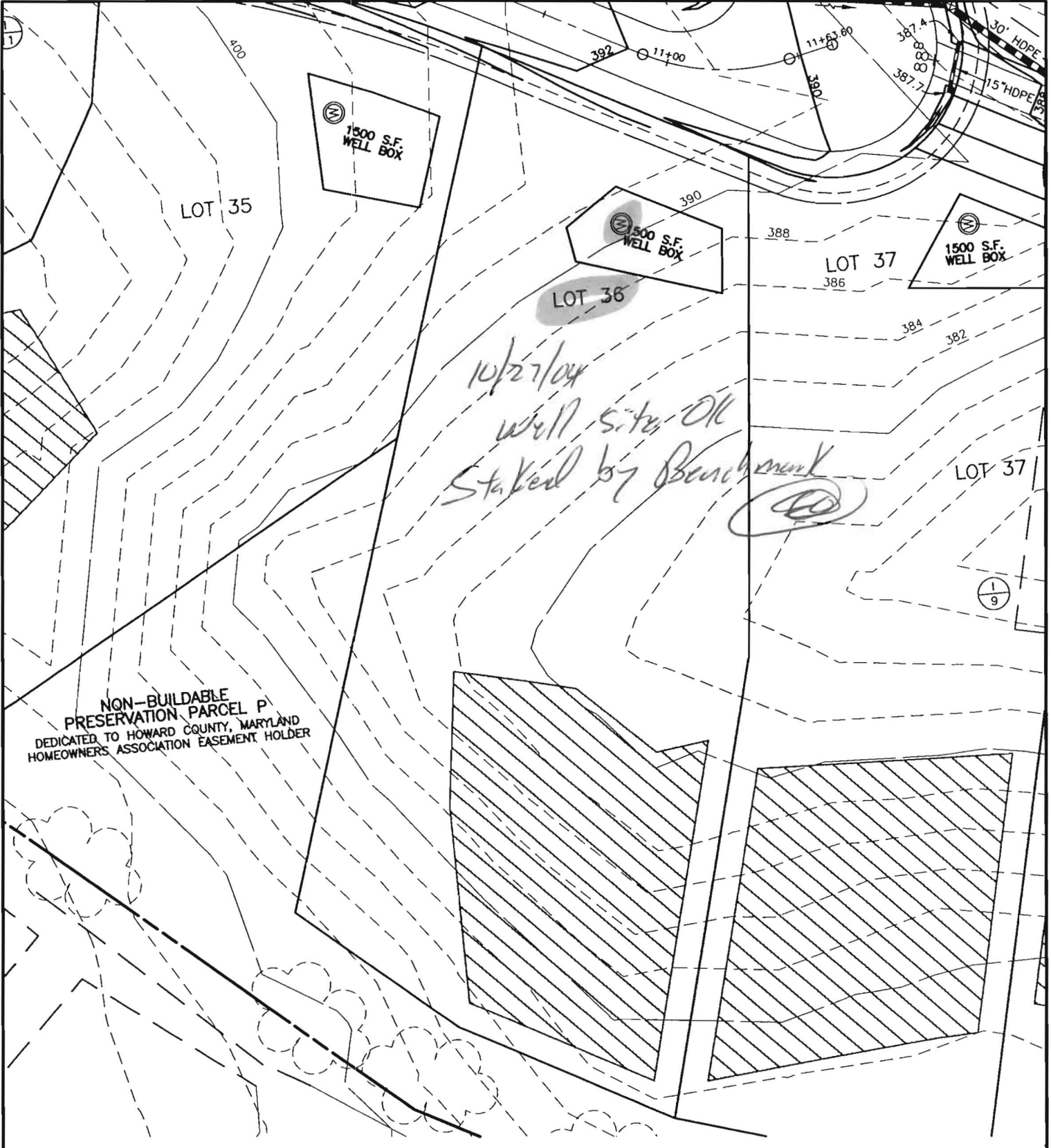
- The well site has been staked by Benchmark Engineering on June '04 and is ready for site inspection.
- \_\_\_\_\_ will call the Health Department for a time to meet in the field to verify a well location.
- Site plan for new well is attached to well permit application.

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

KN      Winchester Homes

<u>LOTS</u>	<u>1-10</u>	<u>Phase I</u>
	<u>12-23</u>	<u>Riverwood</u>
	<u>34-41</u>	

all are staked



RIVERWOOD

LOT 36

**BENCHMARK**  
ENGINEERS • LAND SURVEYORS • PLANNERS  
**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MD 21043  
PHONE: 410-465-6105 FAX: 410-465-6644

THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50' DATE: 10/12/04