

C1 5216 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

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY DATE RECEIVED MM DD YY

DATE WELL COMPLETED 10 27 2006 Depth of Well 22 300 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO - 95 - 0542

OWNER Fulton Ridge LLC last name Scaggsville Road first name TOWN Fulton SUBDIVISION SECTION LOT

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. Includes entries for Overburden Gray Rock and water at 265'.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (Cement, Bentonite Clay) NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL

CASING RECORD

Diagram of casing types (Steel, Concrete, Plastic, Other) MAIN CASING TYPE, Nominal diameter, Total depth

OTHER CASING (if used) diameter, depth

SCREEN RECORD

Diagram of screen types (Steel, Brass, Plastic, Open Hole, Other) screen type or open hole

DEPTH (nearest ft.) 170 58 300

Table with columns: E, A, C, H, S, R, E, N. Rows for casing height and slot size.

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

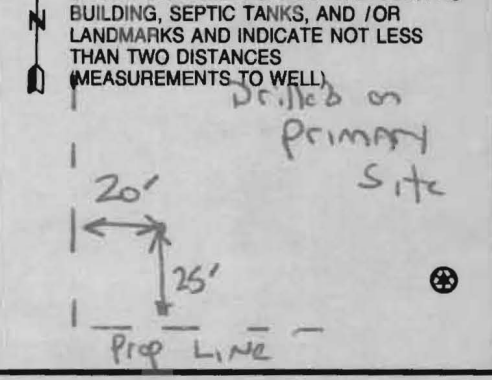
C 3 PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 15.00 METHOD USED TO MEASURE PUMPING RATE Submersible WATER LEVEL (distance from land surface) BEFORE PUMPING 32 WHEN PUMPING 106 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) 49 above LAND SURFACE (nearest foot) 50 51 below

LOCATION OF WELL ON LOT



NUMBER OF UNSUCCESSFUL WELLS: WELL HYDROFRACTURED (Y/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. M D 162 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. AW D 766

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

B 1 3936

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 525578 please type

STATE PERMIT NUMBER HD-95-0542 fill in this form completely

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13 Fulton Ridge LLC 15 Last Name Owner First Name 34 6339 Ten Oaks Road 36 Street or RFD 55 Clarksville MD 21029 57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

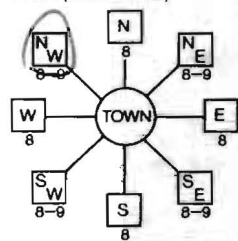
Howard 8 COUNTY 21 Fulton Ridge 23 SUBDIVISION 42 SECTION 44 46 LOT 8 48 50 Fulton 52 NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) 73 76 77 78

DRILLER INFORMATION

Michael D. Isom M S D 162 76 License No. 81 G. Edger Harr Sons Corp. 12047 Falls Road, Cockeysville 21030 9/19/06 -Date

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Scaggsville 11 NEAR WHAT ROAD 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH 34 300 37 DISTANCE FROM ROAD 38 39 ENTER FT OR MI 41 TAX MAP: 41 BLK: 13 PARCEL 2

B 2

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 750 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
I INDUSTRIAL, COMMERCIAL, DEWATERING
P PUBLIC WATER SUPPLY WELL
T TEST, OBSERVATION, MONITORING
G GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard AS17386 COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S DATE ISSUED 12/16/06 CO SIGNATURE EXP. DATE 14/16/07 NORTH GRID 485 000 EAST GRID 819 000 50 55 57 63

APPROXIMATE DEPTH OF WELL 250 24 28 FEET

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)

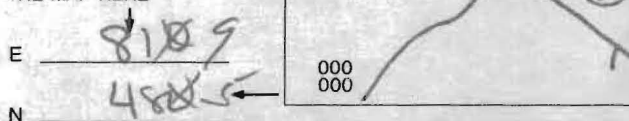
- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
D THIS WELL WILL DEEPEMED AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 52

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- 1. well
2.
3.

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

N

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

APPROP. PERMIT NUMBER HD2006 G 015 PERMIT No. HD-95-0542 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

# HARR WELL DRILLING

12047 FALLS ROAD  
COCKEYSVILLE, MD 21030  
410-252-4588

## HOWARD COUNTY YIELD TEST REPORT

Date Test Performed: 11-16-06  
Address: Scaggsville Road  
Owner Name: Fulton Ridge  
Well Depth: 300 Ft

Permit Number: HO-95-0542  
Subdivision: Fulton Ridge L#8  
Election District:  
Static Water Level: 32 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 5gallon bucket	Calculated Flow-Gallons Per Minute
0930	32 ft		17 sec	17.64
0945	91		20	15.00
1000	106		20	15.00
1015	106		20	15.00
1030	106		20	15.00
1045	106		20	15.00
1100	106		20	15.00
1115	106		20	15.00
1130	106		20	15.00
1145	106		20	15.00
1200	106		20	15.00
1215	106		20	15.00
1230	106		20	15.00

**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: WTC III P+H Telephone #: 410 489-4457  
Address: 1829 Gilletts Falls Rd  
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): William T Cumberland License# 7979  
**\*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: \_\_\_\_\_ Telephone #: \_\_\_\_\_  
Subdivision: Fulton Ridge Lot #: 8 Well Tag #: HO-95-0542  
Site Address: 12134 Fulton Ridge Dr

**Submersible Pump Data**

Make: Mykes  
Model #: \_\_\_\_\_  
Pump Capacity 8 GPM  
Well Yield 20 GPM

**Pitless Adapter**

Make: Harvard  
Model #: \_\_\_\_\_  
Depth: 5 FT (36" min)  
NSF 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:

Depth of well encountered at time of pump installation: 300 (feet)  
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: Plastic  
PSI: 160 (160 psi min)  
Depth of supply line: 5 (36" min)

**House Connection**

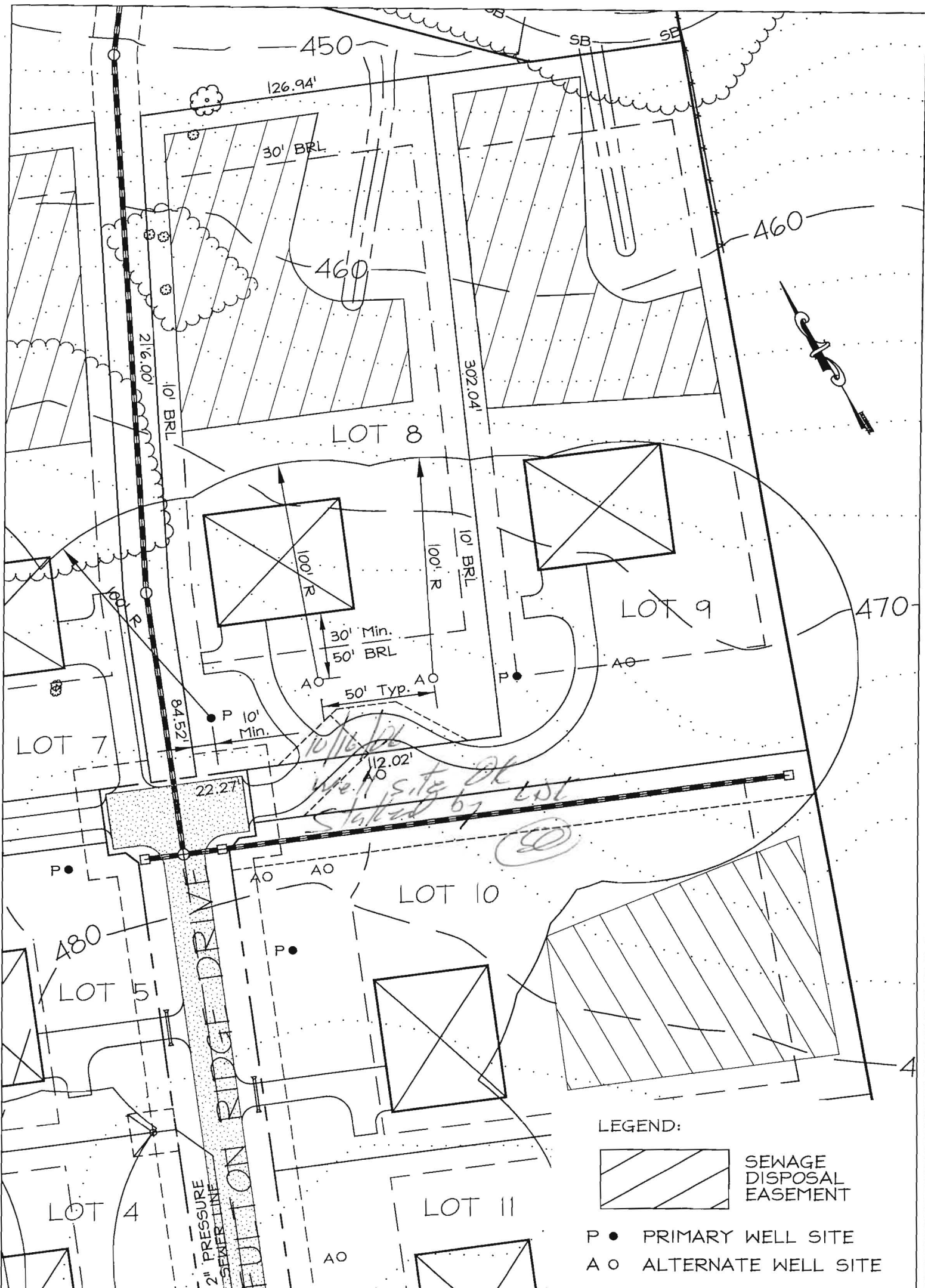
PVC sleeved to undisturbed soil at wall penetration:   
Approximate length of sleeve: 5 FT  
Sleeve caulked and sealed properly: yes

**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: [Signature] date: May 19 2010

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

Date Insp. Requested: \_\_\_\_\_ Date Insp. Approved: OK 1/28/10 (K)  
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 3" above finished grade   
Water supply line sleeved adequately at house connection   
Adequate grout observed below pitless adapter



LEGEND:

-  SEWAGE DISPOSAL EASEMENT
-  PRIMARY WELL SITE
-  ALTERNATE WELL SITE

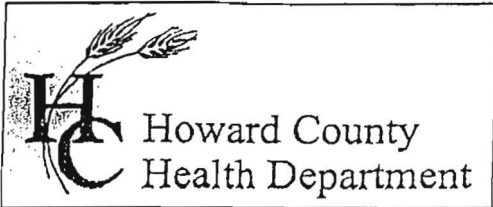
EXHIBIT FOR WELL PERMIT  
 FULTON RIDGE  
 LOT 8

5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DRAWN BY: G.D.W.	DATE: 9/05/06	SHEET: 8 OF 14
CHECKED BY: B.D.B.	LDE JOB NO: 02-017.4	FILE NO:
SCALE: 1" = 50'		

**LDE INC.**

Planning/Engineering/Surveying  
 9250 Rumsey Road Suite 106/Columbia, Maryland/21045  
 (410)715-1070 (Balto.)/(301)596-3424(Wash.)/(410)715-9540 FAX



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 LDE, Inc on 9/22/06 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



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

May 19, 2010

Homeowner  
12134 Fulton Ridge Drive  
Fulton, MD 20759

Emailed to matt@shchomes.net

RE: Fulton Ridge, Lot 8  
12134 Fulton Ridge Drive  
BP# B09002284  
Well Tag #: HO-95-0542

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 04/08/2010. Final approval of the well line connection to the dwelling was approved on 01/28/2010.**

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 12/04/2006. 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.

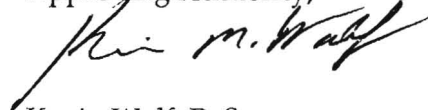
#### INTERIM CERTIFICATE OF POTABILITY

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-95-0542. 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: 05/14/2010  
Date of Samples for Gross Alpha & Gross Beta: 12/04/2006  
Date of Well Completion: 10/27/2006

Approving Authority,



Kevin Wolf, R. S.  
Well & Septic Program

cc: Building Inspector's Office  
Community Health Services  
File

**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 #:	75304	Account #:	4226
Reference:	Lot 8	Company:	Viking Development Corporation
Location:	12134 Fulton Ridge Drive Fulton, MD 20759	Requested By:	Cary Cumberland
Date/ Time Collected:	5/14/2010 1100	Source:	Well Water
Date/Time Rec'd:	5/14/2010 1229	Site:	Pressure Tank
Chlorine ppm:	Free: ND Total: ND	Treatment:	None
Collected By:	J.Yeager 6176JY	pH:	6.0
		Well #:	HO-95-0542

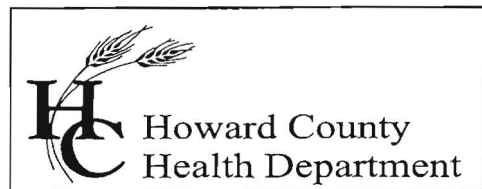
PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME ANALYSIS
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	5/15/2010 / 0800 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	5/15/2010 / 0800 / CCH
Nitrate	4.15	mg/L	10	601	5/14/2010 / 1400 / BCD
Turbidity	3.10	NTU	<10	SM18 2130B	5/14/2010 / 1330 / KME
Sand	NS	mg/L	5	Visual/Gravimetric	5/14/2010 / 1330 / 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 Visual well check: Sealed, vented cap
- 8 pH and Chlorine level tested on site

Reason for Test : Use & Occupancy  
 Building Permit # : B-09-002284

Date Reported: 5/17/2010



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

December 22, 2006

**Fulton Ridge, LLC.**  
**Attn; Harold Bernardzikowski**  
**6339 Ten Oaks Road**  
**Clarksville Maryland 21029**

**RE: Fulton Ridge, Lot 8**  
**Well Tag: HO-95-0542**

Dear Mr. Bernardzikowski:

A sample was collected from a yield test on December 4, 2006 and submitted to GPL 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  $8.4 \pm 2.0$  picocuries/liter (pCi/L); while the **Gross Beta** level was  $9.0 \pm 1.4$  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.

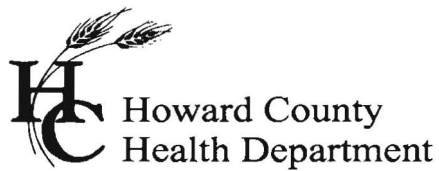
A copy of the test results is enclosed for your information. Please call this office at 410-313-1773 if you have any further questions.

Sincerely,

  
Bert Nixon, Deputy Director  
Bureau of Environmental Health

cc: Eric Dougherty, MDE Water Mgmt., Groundwater  
✓ Well & Septic File





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

Friday, December 08, 2006

MEMORANDUM

Scan with On-site Sewage Disposal  
Installation Permits for these lots

To: FILE

From: Stuart F. Oster  
Well and Septic Program

Re: Wells

1. At WPI, look closely at the grout below the pitless. The Completion reports seem to indicate that the grout may be short. The well driller indicated that the side wall of the holes was caving and this caused the shortage.
2. Yield and grouts were not called in (except for 14).
3. Wells are in Radium testing area. May need retests for ICOP.