

C 1 36229

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 MM DD YY 04 06 16

DATE WELL COMPLETED MM DD YY 3 10 16

Depth of Well 22 375 26

PERMIT NO. FROM "PERMIT TO DRILL WELL" 140-15-0019

OK 4/8/16 SC

28 29 30 31 32 33 34 35 36 37

OWNER Triple R Ventures last name first name TOWN Marriottsville MD

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 (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes entries for 'Brn Clay' and 'Gry Rock'.

NUMBER OF UNSUCCESSFUL WELLS: WELL HYDROFRACTURED YES NO 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" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. M D 553 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. AW D 948

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

GROUTING RECORD YES NO Y N

WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC

CASING RECORD casing types insert appropriate code below

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD screen type or open hole insert appropriate code below

DEPTH (nearest ft.) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76

SLOT SIZE 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 TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST

HOURS PUMPED (nearest hour) 8 9 PUMPING RATE (gal. per min.) 11 15 METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING 17 20 ft. WHEN PUMPING 22 25 ft. TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other (describe below) J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or 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 (nearest foot) 49 50 51

LATITUDE 39.37639 LONGITUDE 76.83007 (DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or state law.

B 1 SEQUENCE NO. (MDE USE ONLY) **43840** STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type **558024** STATE PERMIT NUMBER **Ho-15-0219**
70 fill in this form completely 79

Date Received (APA) **03/08/16**
OWNER INFORMATION
 8 MM DD YY 13
 15 Last Name **Triple R Ventures LLC** Owner First Name 34
 36 Street or RFD **5300 Dorsey Hall Dr** 55
Ellicott City MD 21042
 57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
 8 COUNTY **Howard** 21
 23 SUBDIVISION **Myers Prop** 42
 SECTION 44 46 LOT 48 50
Marriottsville
 52 NEAREST TOWN 71

DRILLER INFORMATION
John Hess M LD 553
 Driller's Name 76 License No. 81
Allied Environmental Svcs
 Firm Name
PO Box 129 Annapolis Junction MD 21701
 Address
John Hess **03/08/16**
 Signature Date

B 4 SOURCES OF DRILLING WATER
 1. **Public**
 2.
 3.
1815 Marriottsville Rd
 11 STREET ADDRESS 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH N
 WEST W EAST E
 SOUTH S
 34 **600** 37
 DISTANCE FROM ROAD FT
 ENTER FT OR MI 38 39
 TAX MAP: **0010** BLK: **0000** PARCEL **0032**
10 22

B 2 WELL INFORMATION
 1 2
 APPROX. PUMPING RATE (GAL. PER MIN.) 8 12
 AVERAGE DAILY QUANTITY NEEDED (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 **2 loops**

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard **(13)** **A537354**
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE _____ INSERT S → 41
3/8/2016 **Brian Baker** **3/6/2017**
 43 MM DD YY 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL **375** FEET
 24 28
 APPROXIMATE DIAMETER OF WELL **6** INCH
 NEAREST

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

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 _____

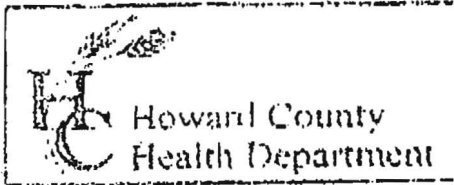


REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)
 THIS WELL WILL NOT REPLACE AN EXISTING WELL
 THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT-LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
 THIS WELL WILL DEEPEM AN EXISTING WELL
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52

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Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROP. PERMIT NUMBER _____ **G** _____
 PERMIT No. **Ho-15-0219**
 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS
 NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



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:

- Myers Property*
- The well site has been staked by Fisher, Collins + Carter,
(professional land surveyor or company employing professional land surveyors)
on 12/2/2014 (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

Bricker, Robert

From: Bricker, Robert
Sent: Friday, June 17, 2016 3:16 PM
To: 'tedwards@haguewaterofmd.com'
Subject: 1815 Marriottsville Road_HO-14-0137

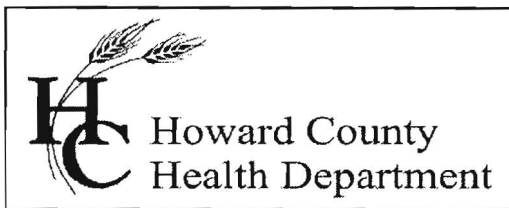
Tim,
The well at 1815 Marriottsville Road, HO-14-0137, had a high (Short-Term) Gross Alpha, 31.4 ± 3.8 pCi/L, at yield test. Therefore, additional analyses are required, as follow:

- Pretreatment Short-term Gross Alpha
- Pretreatment Short-term Gross Beta
- Pretreatment Long-term Gross Alpha
- Pretreatment Long-term Gross Beta
- Pretreatment Radium 226 and Radium 228
- Post-treatment Short-term Gross Alpha
- Post-treatment Short-term Gross Beta
- Post-treatment Long-term Gross Alpha
- Post treatment Long-term Gross Beta
- Post treatment Radium 226 and Radium 228

ROBERT BRICKER, REHS/R.S., L.E.H.S.
ENVIRONMENTAL SANITARIAN II
BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
8930 STANFORD BLVD., COLUMBIA, MD 21045

Phone: Desk, 410-313-2691; Program, 410-313-1771; Bureau, 410-313-1774
Fax: 410-313-2648

E-mail: rbricker@howardcountymd.gov



Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21045
Main: 410-313-1771 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org

Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

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

TEMPORARY INTERIM CERTIFICATE OF POTABILITY
TEMPORARY DEVIATION FOR RADIUM

Expiration Date – AUGUST 13, 2016

June 29, 2016

Homeowner
1815 Marriottsville Road
Woodstock, MD 21042

**RE: Myers Property, Lot 1
1815 Marriottsville Road
Building Permit: B15003928
Well Permit: HO-14-0137**

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 **6/9/2016**. Final approval of the well line connection to the dwelling was granted on **6/28/2016**. The well construction was completed on **3/12/2015**. Water samples were collected on **6/9/2016**.

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.

Gross Alpha and Beta samples were also collected on **3/9/2015**. Results showed a Gross Alpha level of **31.4 pCi/L** and Gross Beta level of **9.6 pCi/L**. **This exceeds the maximum contaminant limit (MCL) of 15 pCi/L and/or 50 pCi/L, respectively.**

This is a **temporary deviation** to allow additional time for installation of a radionuclide removal system and submission of water sample results indicating that the treated water meets EPA recommendations.

This Department will grant a **temporary deviation** to the Interim Certificate of Potability on condition that water sample results for pre- and post-treatment short term and long term gross alpha/beta and radium 226/228 are submitted to this Department **within 45 days**. Those results must indicate that the radionuclide removal system is effectively maintaining a Gross Alpha level of less than **15 pCi/L**, a Gross Beta level of less than **50 pCi/L**, and a Radium 226/228 level of less than **5 pCi/L**.

Furthermore, it will be necessary for you to comply with the following conditions:

1. The system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.
2. It is recommended that a Maryland certified water laboratory certified for radionuclide analysis perform a yearly radionuclide analysis.
3. If you decide to sell or rent your home in the future, you must make any potential buyer/tenant aware of this deviation. **A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04.38D Enforcement and Environment Article 9-1311, Annotated Code of Maryland.**

This Temporary Interim Certificate of Potability will expire 45 days from the date of issuance. **Failure to submit the required radium sample results and obtain an Interim Certificate of Potability before the expiration date 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 water sample appointment or contact a Maryland certified water quality 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>

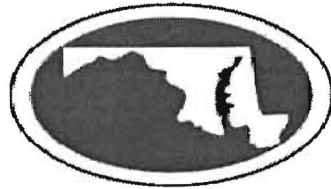
Approving Authority,

Kevin M. Wolf, L.E.H.S., REHS/R.S., Supervisor
Groundwater Management Section
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File

Environmental Testing Lab Inc.

108 Old Solomons Island Rd
Annapolis, MD 21401



3430 Rockefeller Ct
Waldorf, MD 20602

State Certified Water Quality
Laboratory # 106

State Certified Water Quality
Laboratory # 139

Certificate of Analysis

Hague Quality Water
814 E. College Parkway
Annapolis, MD 21409

Project
Date Received 7/6/2016
Date Reported 7/18/2016

Sample No: 139678-01 Sampled: 7/6/2016 1:30:00 P Sampler: TEdwards8309T (Exp. 5/18/2019)
E
Location: 1815 Marriottsville Road Sample Type: Raw Preservation: HNO₃, pH < 2
Marriottsville, MD Sample Point: Pre Treatment

Parameter	Method	Result	Qualifiers	Units	RL	Test Date	Analyst
Radium 226	EPA 903.1	2.1		pCi/l	0.1	07/13/2016	FRC-
Radium 228	EPA Ra-05	1.9		pCi/l	0.1	07/12/2016	FRC-

The combined MCL for R-226 and R-228 is 5 pCi/L

Sample No: 139678-02 Sampled: 7/6/2016 1:35:00 P Sampler: TEdwards8309T (Exp. 5/18/2019)
E
Location: 1815 Marriottsville Road Sample Type: Treated Preservation: HNO₃, pH < 2
Marriottsville, MD Sample Point: Post Treatment

Parameter	Method	Result	Qualifiers	Units	RL	Test Date	Analyst
Radium 226	EPA 903.1	<0.8		pCi/l	0.8	07/13/2016	FRC-
Radium 228	EPA Ra-05	<0.7		pCi/l	0.7	07/12/2016	FRC-

The combined MCL for R-226 and R-228 is 5 pCi/L

Approved By

Daniel J. Brumsted, Laboratory Director

Annapolis

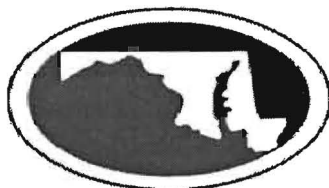
Ph 410-224-4304 Fax 443-926-0586

Waldorf

Ph 410-224-4304 Fax 443-926-0586

Environmental Testing Lab Inc.

108 Old Solomons Island Rd
Annapolis, MD 21401



3430 Rockefeller Ct
Waldorf, MD 20602

State Certified Water Quality
Laboratory # 106

State Certified Water Quality
Laboratory # 139

Certificate of Analysis

Hague Quality Water
814 E. College Parkway
Annapolis, MD 21409

Project
Date Received 6/9/2016
Date Reported 6/14/2016

Sample No: 138779-01 Sampled: 6/9/2016 2:30:00 P Sampler: TEdwards8309T (Exp. 5/18/2019)
E
Location: 1815 Marriottsville Road Preservation: Ice
Marriottsville, MD Sample Point: Pressure Tank

Parameter	Method	Result	Qualifiers	Units	RL	Test Date	Analyst
Bacteria-Total Coliform	Colitag Test	Absent/Pass		Per/100ml	1	06/09/2016	CT-106
Bacteria-E.coli	Colitag Test	Absent/Pass		Per/100ml	1	06/09/2016	CT-106
Iron	HACH 8008	0.14		mg/l	0.05	06/10/2016	RM-139
Turbidity	EPA 180.1	2		NTU	0.5	06/10/2016	RM-139
Nitrate + Nitrite as N	EPA 353.2	Not Detected		mg/l	1	06/10/2016	DB-139
pH	EPA 150.1	7.6		pH Units		06/09/2016	TV-

Field Test(s) for chlorine are reported on the attached COC form. "NT" means Not Tested.

Approved By

Daniel J. Brumsted, Laboratory Director

Annapolis

Ph 410-224-4304 Fax 443-926-0586

Waldorf

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108 Old Solomons Island Rd
Annapolis, MD 21401



3430 Rockefeller Ct
Waldorf, MD 20602

*State Certified Water Quality
Laboratory # 106*

*State Certified Water Quality
Laboratory # 139*

Certificate of Analysis

Hague Quality Water
814 E. College Parkway
Annapolis, MD 21409

Project
Date Received 6/10/2016
Date Reported 6/13/2016
Well Permit No. HO 14 0137

Sample No: 138833-01 Sampled: 6/10/2016 2:00:00 Sampler: TEdwards8309T (Exp. 5/18/2019)
E
Location: 185 Marriottsville Road Sample Point: Pressure Tank
Marriottsville, MD

Parameter	Method	Result	Qualifiers	Units	RL	Test Date	Analyst
Bacteria-Total Coliform	Colitag Test	Absent/Pass		Per/100ml	1	06/10/2016	LC-106
Bacteria-E.coli	Colitag Test	Absent/Pass		Per/100ml	1	06/10/2016	LC-106

Field Test(s) for chlorine are reported on the attached COC form. "NT" means Not Tested.

Approved By



Daniel J. Brumsted, Laboratory Director

Annapolis

Ph 410-224-4304 Fax 443-926-0586

Waldorf

Ph 410-224-4304 Fax 443-926-0586

Environmental Testing Lab Inc.

108 Old Solomons Island Rd
Annapolis, MD 21401



3430 Rockefeller Ct
Waldorf, MD 20602

State Certified Water Quality
Laboratory # 106

State Certified Water Quality
Laboratory # 139

Certificate of Analysis

Hague Quality Water
814 E. College Parkway
Annapolis, MD 21409

Project
Date Received 6/22/2016
Date Reported 6/27/2016
Well Permit No. HO 14 0137

Sample No: 139268-01 Sampled: 6/22/2016 12:30:0 Sampler: TEdwards8309T (Exp. 5/18/2019)
E
Location: 1815 Marriottsville Road Preservation: HNO3, pH < 2
Marriottsville, MD Sample Point: Raw Pressure Tank

Parameter	Method	Result	Qualifiers	Units	RL	Test Date	Analyst
Gross Alpha-Radium	EPA 900.0	10.5		pCi/l	1	06/25/2016	FRC-

If Gross Alpha Radium results are below 5 pCi/L no further action is recommended. If between 5-15 pCi/L further testing for Radium 226 and 228 is recommended. If Gross Alpha Radium result exceeds 15 pCi/L consider a water treatment system.

Sample No: 139268-02 Sampled: 6/22/2016 12:30:0 Sampler: TEdwards8309T (Exp. 5/18/2019)
E
Location: 1815 Marriottsville Road Preservation: HNO3, pH < 2
Marriottsville, MD Sample Point: Treated-Hose Bib

Parameter	Method	Result	Qualifiers	Units	RL	Test Date	Analyst
Gross Alpha-Radium	EPA 900.0	1.3		pCi/l	0.9	06/25/2016	FRC-

If Gross Alpha Radium results are below 5 pCi/L no further action is recommended. If between 5-15 pCi/L further testing for Radium 226 and 228 is recommended. If Gross Alpha Radium result exceeds 15 pCi/L consider a water treatment system.

Approved By

Daniel J. Brumsted, Laboratory Director

Annapolis

Ph 410-224-4304 Fax 443-926-0586

Waldorf

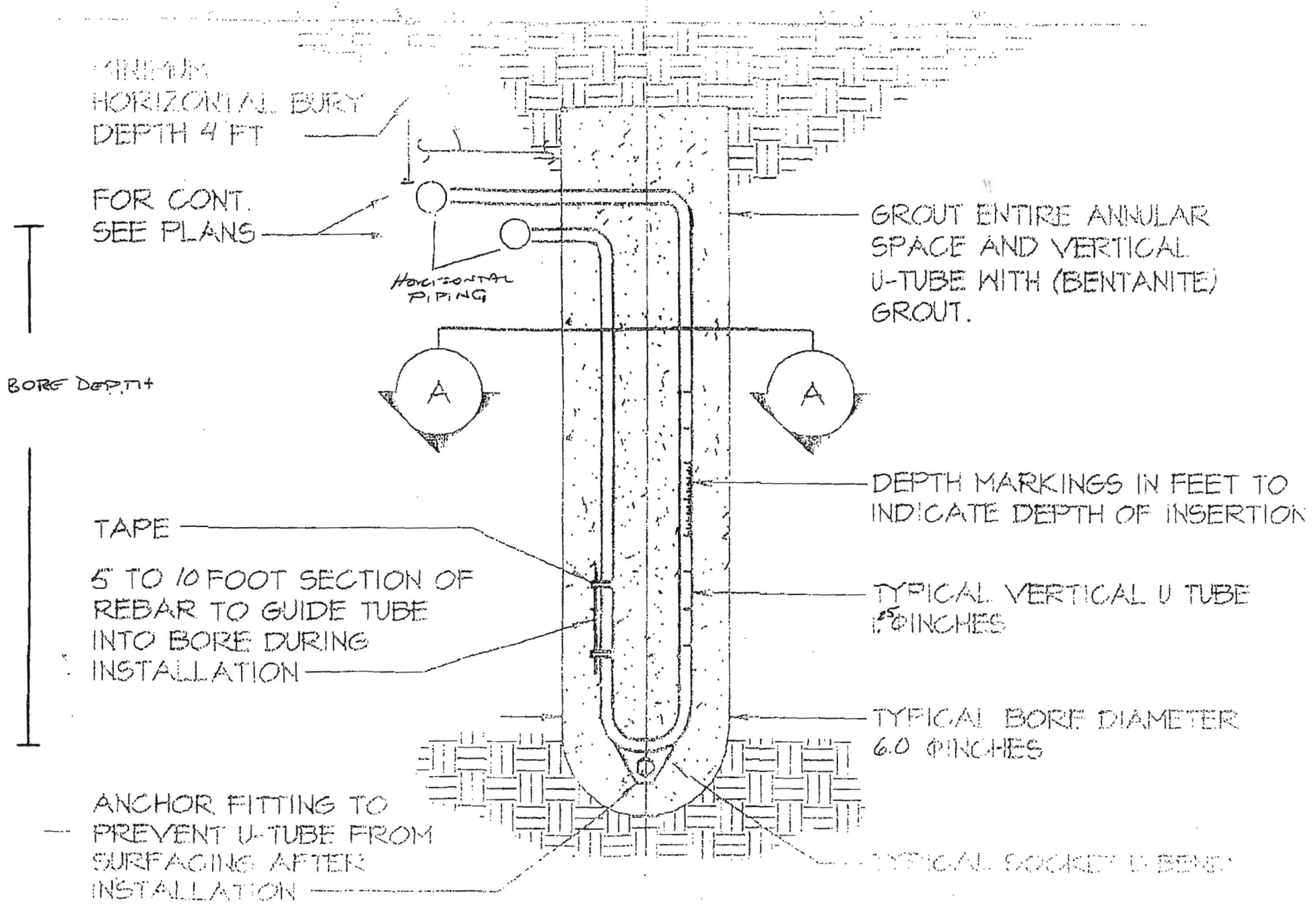
Ph 410-224-4304 Fax 443-926-0586

HOWARD COUNTY GROUTING PROCEDURE

Boreholes will be grouted from the bottom to the top via a tremie pipe and positive displacement pump. Bentonite grout, known as Quik-Grout will be used according to the manufacturer's specifications to achieve a consistency of at least 20% solids (24 gallons potable water/50 lb. sack of grout) and a permeability no more than $2.5 \text{ E}(-08) \text{ cm/sec}$. Grouting will be completed immediately after installing the geothermal loop and no later than twenty-four (24) hours after installing the geothermal loop. Open boreholes/annular space will be protected as necessary to prevent the entry of surface water or pollutants.

GRADE

EACH BORE HOLE (TYP.)



MINIMUM
HORIZONTAL BURY
DEPTH 4 FT

FOR CONT.
SEE PLANS

HORIZONTAL
PIPING

GROUT ENTIRE ANNULAR
SPACE AND VERTICAL
U-TUBE WITH (BENTONITE)
GROUT.

BORE DEPTH+

TAPE

5 TO 10 FOOT SECTION OF
REBAR TO GUIDE TUBE
INTO BORE DURING
INSTALLATION

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
1.25 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

TYPICAL SOCKET U-BEND

