

B 1 SEQUENCE NO. (MDE USE ONLY) **STATE OF MARYLAND** STATE PERMIT NUMBER
APPLICATION FOR PERMIT TO DRILL WELL HO - 22 - 0112
 please type 70 79
 fill in this form completely

OWNER INFORMATION
 Date Received (APA) 8 MM DD YY 13
Mullins Justin + Bethany
 15 Last Name Owner First Name 34
7244 Like Quest Lane
 36 Street or RFD 55
Columbia MD 21045
 57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
Howard
 8 COUNTY 21
Village of Owen Brown
 23 SUBDIVISION 42
 SECTION 44 46 LOT A219 48 50
Columbia
 52 NEAREST TOWN 71

DRILLER INFORMATION
Wesley Woike M W D 598
 76 Driller's Name License No. 81
Allied Well Drilling
 Firm Name
Box 129 Annapolis MD 20701
 Address
Wesley A Woike 11/07/24
 Signature Date

B 4 SOURCES OF DRILLING WATER
 1. Public
 2.
 3.
7244 Like Quest Ln
 11 STREET ADDRESS 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH
 WEST EAST
 SOUTH
 34 37
 DISTANCE FROM ROAD ENTER FT OR MI 38 39
 TAX MAP 0042 BLK: _____ PARCEL 0440

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 1 Loop

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard 13
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE _____ INSERT S → 41
 DATE ISSUED 11 17 24 43 MM DD YY 48
Bethany Brown 11-14-25
 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 300 FEET
 24 28

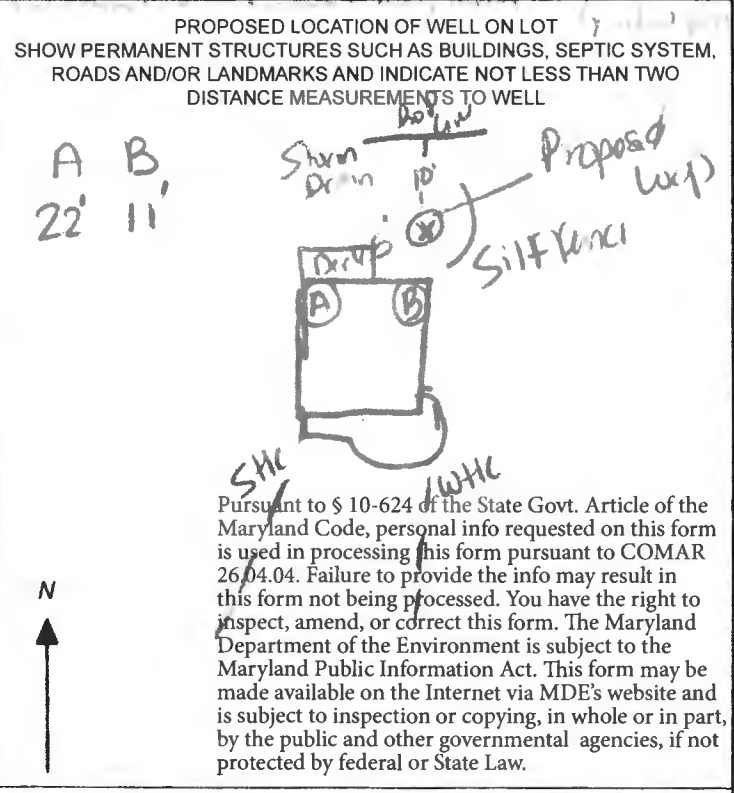
APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

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)
 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 DEEPEAN AN EXISTING WELL
 39 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52

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

SPECIAL CONDITIONS Wells must be grouted from the bottom of the hole. Please verify # of grout shells and
 NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



MEMO

December 16, 2024

Wes Wolfe

Allied Well Drilling

8213 Brock Bridge Road

Laurel, MD 20724

RE: **7244 Life Quest Lane – Permit Approval**

Dear **Mr. Wolfe**:

On 12/9/2024 we received your Well Completion Report for 7244 Life Quest Lane. The type of loop that was installed and noted on the Well Completion Report (1 twister loop) does not match the loop that was noted on the Well Application Permit (1 loop). At this time, we cannot complete our approval of the permit due to this inconsistency. Can you please revise the permit so that we can finalize our approval?

Also of note, no one in our office could confirm your verbal notification to drill at this property. For future notifications of activity please contact us via email:

kwolf@howardcountymd.com, smartin@howardcountymd.gov,
spage@howardcountymd.gov, and mburns@howardcountymd.gov.

If you have any questions regarding this letter, please contact me at 410-313-1771

Matt Burns, EH Specialist
Well & Septic Program | Howard County Health Department
8930 Stanford Blvd., Columbia, MD 21045
410-313-2643 (Office) | 410-313-2648 (Fax)



HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 Courthouse Drive ■ Ellicott City, Maryland 21043 ■ 410-313-4401 ■ Fax: 410-313-3408
Yosef Kebede, Director
ykebede@howardcountymd.gov
TDD 410-313-2323

October 4, 2024

Justin Mullins and Bethany Mullins
7244 Life Quest Lane
Columbia, Maryland 21045

Subject: 15' Drainage Easement for Surface Swale
Lot A-219 Village of Owen Brown, Section 2, Area 1, 7244 Life Quest Lane

Dear Mr. and Mrs. Mullins:

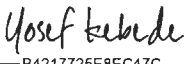
The Department of Public Works has reviewed your request to install geothermal facilities within the 15' Drainage Easement for Surface Swale (the "Easement") shown on the plat entitled "Columbia, Village of Owen Brown, Lots A-117 thru A-232 A Resubdivision of Lot A-116, Section 2, Area 1" and recorded in the Land Records of Howard County as plat number 4303 (the "Plat"). The Department of Public Works has no objection to the installation of geothermal facilities within the 7.5 feet of the Easement on your lot, which is shown as Lot A-219 on the Plat.

The Department of Public Works makes the following requests with regard to the installation of the geothermal facilities on your property:

1. Assume full responsibility for all damages to the surface drainage system resulting from installation of or any work on the geothermal facilities within the Easement.
2. Provide notice of the location of the geothermal facilities installed on your property for the County's records, preferably in the form of GPS coordinates or a plan/sketch showing dimensions from the facilities relative to your house

If you have any questions or require a meeting, please contact the Real Estate Services at (410) 313-2330.

Sincerely yours,

Signed by:

B4217725E8EC47C...
Yosef Kebede, Director
Department of Public Works

Allied Well Drilling

P.O. Box 129
Annapolis Junction, MD 20701
Office #: 301-776-8370
Fax #: 301-776-8374

Date: 11/14/24

County Health Department.

Subject: Variance Letter

I Justin Mullins am aware, that the geothermal wells to be drilled on my property at 7244 Life Quest Lane, Columbia MD 21045 Does not meet County set back requirements, the distance to the building foundation and the 15' drainage easement

Signed:  _____

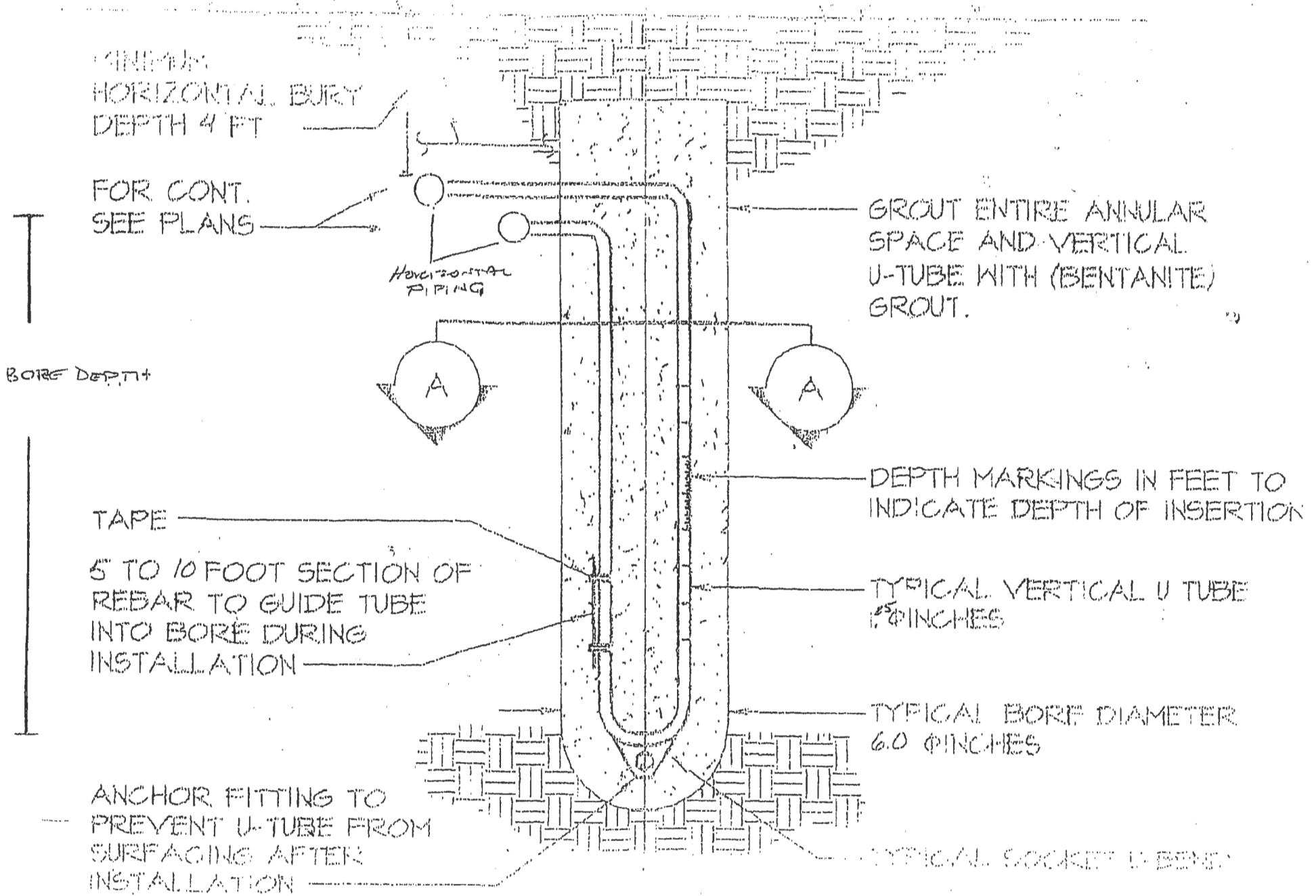
Special Conditions or Comments:

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 ANNUAL
SPACE AND VERTICAL
U-TUBE WITH (BENTANITE)
GROUT.

BORE DEPTH

TAPE

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

DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
1.5 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

TYPICAL SOCKET U-BEND