

C 1 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN
45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER 13

ST/CO USE ONLY DATE Received MM DD 01 23 24

DATE WELL COMPLETED MM DD 12-13-23

Depth of Well 22 450 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" MU-20-0331

OWNER _____ TOWN _____

WELL SITE ADDRESS _____ SECTION _____ LOT _____

SUBDIVISION _____

WELL LOG
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
1 1/2" sand	1	1	
2 1/2" clay	1	10	
1 1/2" clay	10	20	
fin sand	20	40	
fine gravel	40	45	
black	45	60	
grey rock	60	450	

GROUTING RECORD yes no

WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**

TYPE OF GROUTING MATERIAL (Circle one)
CEMENT **CM** BENTONITE CLAY **BC**

NO. OF BAGS 45 46 4 NO. OF POUNDS 145 146

GALLONS OF WATER _____

DEPTH OF GROUT SEAL (to nearest foot)
from 48 TOP 52 ft. to 54 BOTTOM 58 ft.
(enter 0" if from surface)

CASING RECORD

casing types insert appropriate code below

ST STEEL **CO** CONCRETE
PL PLASTIC **OT** OTHER

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

60 61 63 64 66 70

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

SCREEN RECORD

screen type or open hole insert appropriate code below

ST STEEL **BR** BRASS **HO** OPEN HOLE
PL PLASTIC **OT** OTHER

C 3

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 (CIRCLE) (YES or NO) 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. 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 (nearest foot)
- below }

NUMBER OF UNSUCCESSFUL WELLS: _____

WELL HYDROFRACTURED **Y** **N**

CIRCLE APPROPRIATE LETTER

A 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 MVD 918

DRILLERS SIGNATURE _____

LIC. NO. 1 D _____

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

C 2 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
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SLOT SIZE 1 _____ 2 _____ 3 _____

DIAMETER OF SCREEN _____ (NEAREST INCH)

from _____ to _____

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 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

LATITUDE 39.21262 ✓

LONGITUDE 76.96572 ✓

(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.

05-341136

EMERGENCY/TEMP NO. IF ANY

B 1 72204	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 575686 please type	STATE PERMIT NUMBER H0-20-0331 fill in this form completely 79
	1 2 3 6		

Date Received (APA) 11/07/23
 OWNER INFORMATION
 8 MM DD YY 13
 Cao Yan + Yun Jin
 15 Last Name Owner First Name 34
 13001 Triadelphia Mill 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
 23 SUBDIVISION 42
 SECTION 44 46 LOT 48 50
 Clarksville
 52 NEAREST TOWN 71

DRILLER INFORMATION
 Wesley Wolfe MWD 558
 76 License No. 81
 Driller's Name
 Wesley Wolfe Drilling
 PO Box 129 Annapolis Inlet, MD 20721
 11/03/23
 Signature Date

B 4 SOURCES OF DRILLING WATER
 1. Public
 2.
 3.
 13001 Triadelphia Mill Rd
 11 STREET ADDRESS 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH N
 WEST W EAST E
 SOUTH S
 34 71 37
 DISTANCE FROM ROAD
 ENTER FT OR MI 38 39 47
 TAX MAP: 0034 BLK: PARCEL 0147

B 2 WELL INFORMATION
 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 11/15/23 8:20 PM 11/15/2023
 43 MM DD YY 48 CO SIGNATURE EXP. DATE

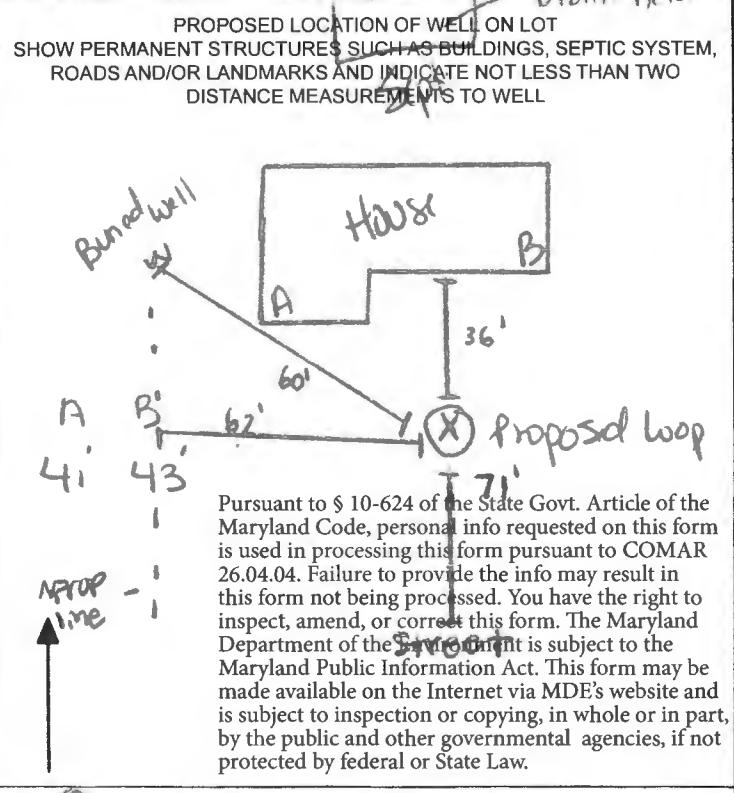
APPROXIMATE DEPTH OF WELL 450 FEET
 APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

METHOD OF DRILLING (circle one)
 BORED (or Augered) JETTED Jetted & DRIVEN
 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
 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

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROP. PERMIT NUMBER G
 PERMIT No. H0-20-0331
 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS Graft from bottom to top.

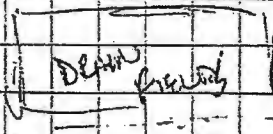


AB
4743



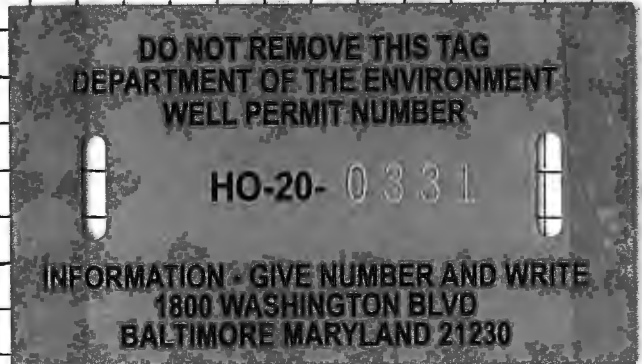
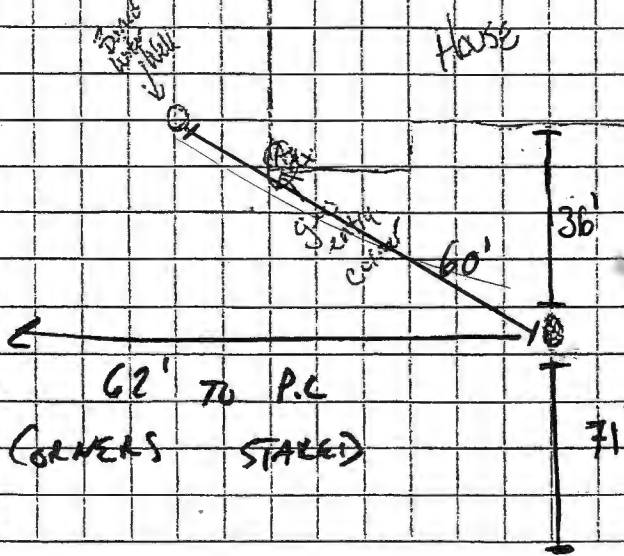
13001 Tradelphus Mill Rd
Clarksville Md

1 well @ 450' closed
loop geothermal



SLC
Fence

Neighborhood
Driveway



Well site
Approved SP
11/15/2023

Sediment Control Protocol: SLC Fence

Distance From House: 33'
From Septic: 50' +
From Sewer: N/A
From Property Line: 62'
From Street: 71'

Trees Nearby: NO
Utility Issues: NO
Mats Needed: NO
Access For H/U: YES
Neighboring Tags: See Comp's

Comments: _____

Person Completing Form: Wes Wolfe

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.)

SEE PLAN
HORIZONTAL BORE
DEPTH 4 FT

FOR CONT.
SEE PLANS

HORIZONTAL
PIPING

GROUT ENTIRE ANGULAR
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

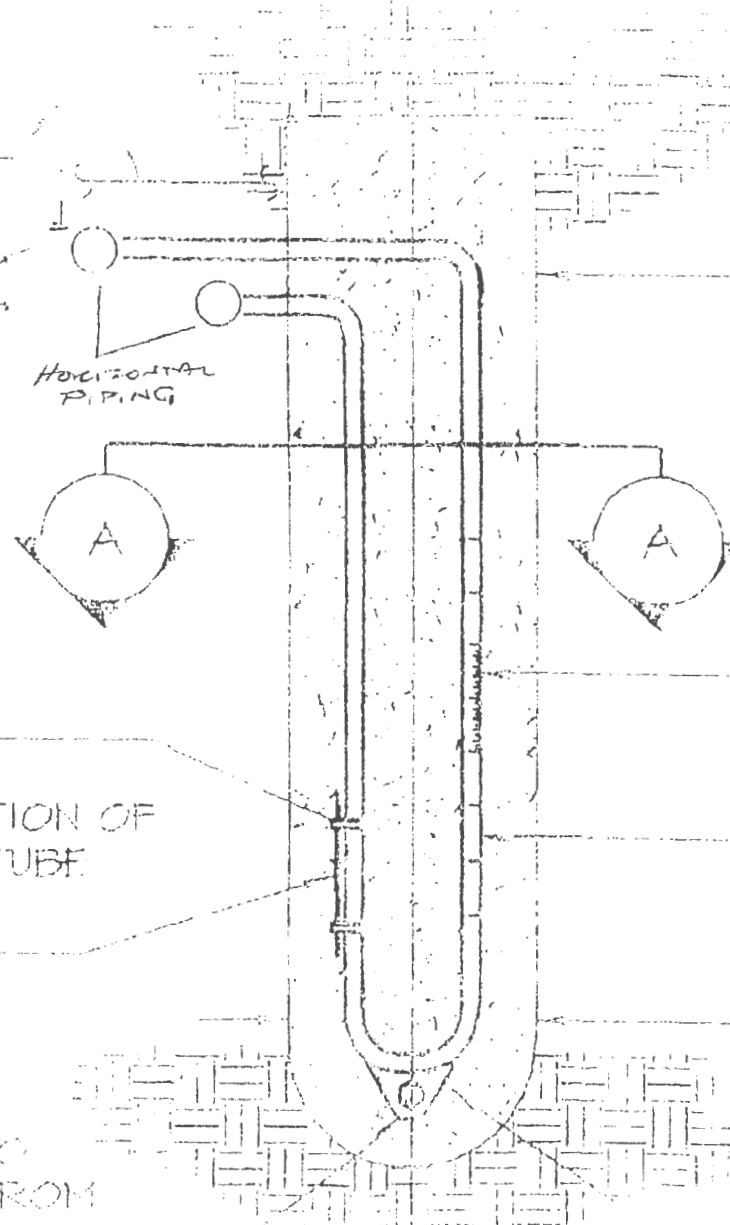
DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U-TUBE
60 INCHES

TYPICAL BORE DIAMETER
60 INCHES

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

SEE PLAN FOR BORE LOCATION



Page, Shepsura

From: Page, Shepsura
Sent: Thursday, November 9, 2023 11:08 AM
To: Wes Wolfe
Cc: Wolf, Kevin
Subject: 13001 Triadelphia Mill Rd- Geo Well permit status

Good Morning Wes,

I'm currently reviewing your geo well permit for 13001 Triadelphia Mill Rd. Your well site plan does not show where the property line or street is. Please submit another site plan drawing out where the property line and street is at. Please also include a distance to the existing water well.

Thanks,

Shepsura Page, EH Specialist
Well & Septic Program
Howard County Health Department
8930 Stanford Blvd.
Columbia, MD 21045
410-313-1789 (Office)
410-313-2648 (Fax)
www.hchealth.org
spage@howardcountymd.gov



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