

C 1 51121		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.	
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		DATE RECEIVED MM DD YY 06 26 17		DATE WELL COMPLETED MM DD YY 06 12 17		Depth of Well 22 500 26 (TO NEAREST FOOT)	
ST/CO USE ONLY		PERMIT NO. FROM "PERMIT TO DRILL WELL" H0 - 17 - 0138		COUNTY NUMBER		OK 7/6/17sc	
OWNER Lauik		WELL SITE ADDRESS 3814 Walt Ann Drive		TOWN ELLICOTT		LOT 19	
SUBDIVISION 0000		SECTION		LOT			
WELL LOG Not required for driven wells		GROUTING RECORD		C 3		PUMPING TEST	
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING		WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 32 NO. OF POUNDS 1600 GALLONS OF WATER 608 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 500 ft. (enter 0 if from surface)		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			
DESCRIPTION (Use additional sheets if needed)		FEET FROM TO Top Soil 0 2 Browns. lty Sand 2 75 Grey schist 75 500		Casing Record casing types insert appropriate code below ST STEEL CO CONCRETE PL PLASTIC OT OTHER MAIN CASING TYPE PL 6 100 OTHER CASING (if used) diameter inch depth (feet) from to			
NUMBER OF UNSUCCESSFUL WELLS: 0		WELL HYDROFRACTURED yes Y no N		C 2 DEPTH (nearest ft.) H0 98 500 E 1 8 9 11 15 17 21 A 2 23 24 26 30 32 36 C 3 38 39 41 45 47 51 S R E E N SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 56 60 from to		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 49 LAND SURFACE - below 49 2 (nearest foot) 50 51	
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.		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 LOG OTHER DATA CASING INDICATOR		LATITUDE 39.2651956 LONGITUDE 76.972273 (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.	
DRILLERS LIC. NO. 1 MWD 572 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 WPR 064		SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)		COUNTY			

B 1 <div style="font-size: 24pt; font-weight: bold; text-align: center;">46495</div>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type <div style="font-size: 24pt; font-weight: bold;">500633</div>	STATE PERMIT NUMBER <div style="font-size: 24pt; font-weight: bold;">H0 - 17 - 0138</div>
Date Received (APA) <div style="font-size: 24pt; font-weight: bold;">021517</div> <div style="font-size: 12pt;">8 MM DD YY 13</div>		B 3 LOCATION OF WELL	
OWNER INFORMATION <div style="font-size: 24pt; font-weight: bold;">Larik</div> <div style="font-size: 24pt; font-weight: bold;">Erin</div> <div style="font-size: 12pt;">15 Last Name 34 Owner First Name</div> <div style="font-size: 24pt; font-weight: bold;">3814 Walt Anne Drive</div> <div style="font-size: 12pt;">36 Street or RFD 55</div> <div style="font-size: 24pt; font-weight: bold;">Ellicott City MD 21042</div> <div style="font-size: 12pt;">57 Town 70 State 72 Zip 76</div>		<div style="font-size: 24pt; font-weight: bold;">Howard</div> <div style="font-size: 12pt;">8 COUNTY 21</div> <div style="font-size: 24pt; font-weight: bold;">0000</div> <div style="font-size: 12pt;">23 SUBDIVISION 42</div> <div style="font-size: 12pt;">SECTION 44 46 LOT 48 50</div> <div style="font-size: 24pt; font-weight: bold;">Ellicott City</div> <div style="font-size: 12pt;">52 NEAREST TOWN 71</div>	
DRILLER INFORMATION <div style="font-size: 24pt; font-weight: bold;">Samuel Connelly MWD 572</div> <div style="font-size: 12pt;">Driller's Name 76 License No. 81</div> <div style="font-size: 24pt; font-weight: bold;">Connelly Associates, Inc.</div> <div style="font-size: 12pt;">Firm Name</div> <div style="font-size: 24pt; font-weight: bold;">1513 Tilco Drive, Frederick, MD 21704</div> <div style="font-size: 12pt;">Address</div> <div style="font-size: 24pt; font-weight: bold;">Samuel A. Connelly</div> <div style="font-size: 12pt;">Signature Date</div>		B 4 SOURCES OF DRILLING WATER 1. Private 2. 3.	
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 8 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20		<div style="font-size: 24pt; font-weight: bold;">3814 Walt Anne D. Ellicott City MD</div> <div style="font-size: 12pt;">11 STREET ADDRESS 30</div> <div style="text-align: center;"> ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) </div> <div style="text-align: center;"> <div style="display: inline-block; text-align: center;">NORTH N</div> <div style="display: inline-block; text-align: center;">WEST W</div> <div style="display: inline-block; text-align: center;">EAST E</div> <div style="display: inline-block; text-align: center;">SOUTH S</div> </div> <div style="font-size: 24pt; font-weight: bold;">61</div> <div style="font-size: 12pt;">34 37</div> <div style="font-size: 12pt;">DISTANCE FROM ROAD FT</div> <div style="font-size: 12pt;">ENTER FT OR MI 38 39</div> <div style="font-size: 24pt; font-weight: bold;">15</div> <div style="font-size: 12pt;">TAX MAP: 0022 BLK: 15 PARCEL 0145</div>	
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input type="checkbox"/> OPEN LOOP GEOTHERMAL <input checked="" type="checkbox"/> CLOSED LOOP GEOTHERMAL		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <div style="font-size: 24pt; font-weight: bold;">Howard</div> <div style="font-size: 24pt; font-weight: bold;">13</div> <div style="font-size: 12pt;">COUNTY NAME COUNTY NO.</div> <div style="font-size: 12pt;">STATE SIGNATURE INSERT S 41</div> <div style="font-size: 12pt;">DATE ISSUED 5/22/17 5/22/18</div> <div style="font-size: 12pt;">43 MM DD YY 48 CO SIGNATURE EXP. DATE</div> <div style="font-size: 24pt; font-weight: bold;">Don: 6/8/17 DOG: 6/12/17</div>	
APPROXIMATE DEPTH OF WELL 500 FEET <div style="font-size: 12pt;">24 28</div>		APPROXIMATE DIAMETER OF WELL 6 INCH <div style="font-size: 12pt;">NEAREST INCH</div>	
METHOD OF DRILLING (circle one) <div style="font-size: 12pt;">BORED (or Augered) JETTED Jetted & DRIVEN</div> <div style="font-size: 12pt;">30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)</div> <div style="font-size: 12pt;">37 CABLE Reverse-ROTARY Drive-POINT</div> <div style="font-size: 12pt;">other</div>		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 <div style="font-size: 24pt; font-weight: bold;">6/8</div> <div style="font-size: 24pt; font-weight: bold;">at 180', dark gray material</div> <div style="font-size: 24pt; font-weight: bold;">silt fence set up to contain water</div> <div style="font-size: 24pt; font-weight: bold;">6/12</div> <div style="font-size: 24pt; font-weight: bold;">well grouted</div> <div style="font-size: 24pt; font-weight: bold;">32 bags Thermex grout</div> <div style="font-size: 12pt;">N</div>	
REPLACEMENT OR DEEPEENED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEENED (IF AVAILABLE) 41 52		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.	
Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER _____ G _____ PERMIT No. H0 - 17 - 0138 <div style="font-size: 12pt;">70 71 72 73 74 75 76 77 78 79</div>			
SPECIAL CONDITIONS NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.			

Geothermal well site
approved 5/22/17 SC

DO NOT REMOVE THIS TAG
DEPARTMENT OF THE ENVIRONMENT
WELL PERMIT NUMBER

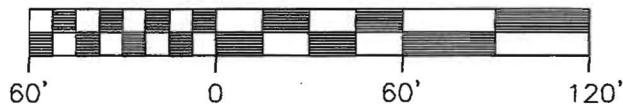
H0-17-0138

INFORMATION GIVE NUMBER AND WRITE:
1800 WASHINGTON BLVD
BALTIMORE MARYLAND 21230

L E G E N D

- PROPOSED GEOTHERMAL WELL LOCATION
- APPROXIMATE DOMESTIC WATER WELL LOCATION
- APPROXIMATE SEPTIC TANK LOCATION

GRAPHICAL SCALE



260 Interstate Court
Frederick, Maryland 21704
(301) 696-8820
(301) 696-0327 fax

LAVIK RESIDENCE
3814 WALT ANNE DRIVE, ELLICOTT CITY, MARYLAND

PROPOSED GEOTHERMAL WELL
LOCATION PLAN

Scale:
AS SHOWN

Fig.

Date:
MAY 2017

Drawn By:
J.A.

Checked By:
E.S.

Project No.:
121650

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HOWARD COUNTY HEALTH DEPARTMENT

60633

5/15/17
DATE

Received
From

PHONE #

☐ CASH
☐ CHECK
NO. 0160
45

For

\$

Received By

Dollars