

C1 4208

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND #2  
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)

COUNTY  
NUMBER

ST/CO USE ONLY

DATE WELL COMPLETED

Approved  
1/8/21 (S)

Depth of Well

PERMIT NO.  
FROM "PERMIT TO DRILL WELL"  
HO - 20 - 0048

DATE Received  
MM DD YY  
8 13

MM DD YY  
11 16 20

22 284 26  
(TO NEAREST FOOT)

28 29 30 31 32 33 34 35 36 37

OWNER Alexander Rubin Stacey Leigh Nathan  
WELL SITE ADDRESS 7628 Roundhill Rd. TOWN Ellicott City  
SUBDIVISION Lot 108 3.94A Worthington Add SECTION 8 LOT 108

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	
Topsoil	0	1	
Silt; Brn.	1	110	
Silt; Trace mica trace clay	110	125	✓
Sand & gravel			
Bedrock: Gneiss gray	125	284	✓

Installed 1.25" x 284'  
closed loop hdpe U-bend

GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)  Y  N  
TYPE OF GROUTING MATERIAL (Circle one)  
CEMENT  CM BENTONITE CLAY  BC  
NO. OF BAGS 12 NO. OF POUNDS 600  
GALLONS OF WATER 228  
DEPTH OF GROUT SEAL (to nearest foot)  
from 0 TOP 52 ft. to 284 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

E A C H C A S I N G	OTHER CASING (if used)	
	diameter inch	depth (feet) from to

screen type or open hole insert appropriate code below  
 ST STEEL  BR BRASS  HO OPEN HOLE  
 PL PLASTIC  OT OTHER

C 2	DEPTH (nearest ft.)	
	1	2
E	<u>HO</u>	<u>0</u>
A	<u>8</u>	<u>9</u>
C	<u>11</u>	<u>15</u>
H	<u>17</u>	<u>21</u>
S	<u>23</u>	<u>24</u>
C	<u>26</u>	<u>30</u>
3	<u>32</u>	<u>36</u>
R	<u>38</u>	<u>39</u>
E	<u>41</u>	<u>45</u>
3	<u>47</u>	<u>51</u>
R		
E		
S		
L		
O		
T		
N		

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) N/A  
PUMPING RATE (gal. per min.) N/A  
METHOD USED TO MEASURE PUMPING RATE  
WATER LEVEL (distance from land surface)  
BEFORE PUMPING N/A ft.  
WHEN PUMPING N/A 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. N/A  
CAPACITY: GALLONS PER MINUTE (to nearest gallon) N/A  
PUMP HORSE POWER N/A  
PUMP COLUMN LENGTH (nearest ft.) N/A  
CASING HEIGHT (circle appropriate box and enter casing height)  
 + above } LAND SURFACE  
 - below } -3 (nearest foot)

LATITUDE 39.242678  
LONGITUDE 76.789952  
(DEFAULT COORD. WGS 84)

NOTES:

DRILLERS LIC. NO. MWD 587  
Stephen DeRoh  
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. AW D 063  
Robert Malter

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

**B 1** SEQUENCE NO. (MDE USE ONLY) **68925** STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type STATE PERMIT NUMBER **HO-20-0048**

**OWNER INFORMATION**  
 8 MM DD YY 13  
 15 Last Name Owner First Name 34  
Rubin Leigh Stacey Alexander Nathan  
 36 Street or RFD 55  
4628 Roundhill Rd.  
 57 Town 70 State 72 Zip 76  
Ellicott City Md. 21043

**B 3** LOCATION OF WELL  
 8 COUNTY  
Howard  
 23 SUBDIVISION 42  
Lot 108 3.94A Worthington Add Sec 8  
 SECTION 44 46 LOT 48 50  
108  
 52 NEAREST TOWN 71  
Ellicott City

**DRILLER INFORMATION**  
 Driller's Name 76 License No. 81  
Stephen DeLoach M W D 587  
 Firm Name  
Connolly + Associates, Inc  
 Address  
1313 Tilco Dr. Frederick MD 21704  
 Signature Date  
Stephen DeLoach 9-8-2020

**B 4**  
 SOURCES OF DRILLING WATER  
 1. public  
 2.  
 3. 10/22/20 - 11:15 AM  
driller not onsite  
rig was there but  
no drilling - 9 yr. (20)  
11/17/2020 Great Well - 11  
Lot # 0604202 15:47  
11/25/20 Final grout  
 11 STREET ADDRESS 30  
4628 Roundhill Rd  
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
 34 300 37  
 DISTANCE FROM ROAD ENTER FT OR MI 38 39  
 TAX MAP: 00 BLK: \_\_\_\_\_ PARCEL 0544

**B 2** WELL INFORMATION  
 1 2 APPROX. PUMPING RATE (GAL. PER MIN.)  
N/A 12  
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)  
N/A 14 20

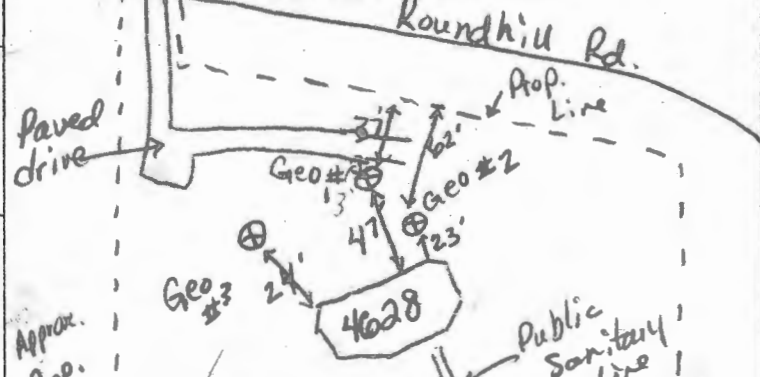
**USE FOR WATER** (CIRCLE APPROPRIATE BOX)  
 DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION  
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)  
 INDUSTRIAL, COMMERCIAL, DEWATERING  
 PUBLIC WATER SUPPLY WELL  
 TEST, OBSERVATION, MONITORING  
 OPEN LOOP GEOTHERMAL  
 CLOSED LOOP GEOTHERMAL

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**  
 COUNTY NAME Howard COUNTY NO. 100  
 STATE SIGNATURE \_\_\_\_\_ INSERT S →  
 DATE ISSUED 09/29/2020 41  
 43 MM DD YY 48 CO SIGNATURE \_\_\_\_\_ EXP. DATE  
09/29/2021  
 DON: 10/22/20 11/17/2020 (SD)

APPROXIMATE DEPTH OF WELL 284 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-RE-pression 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  
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (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. HO-20-0048  
 70 71 72 73 74 75 76 77 78 79

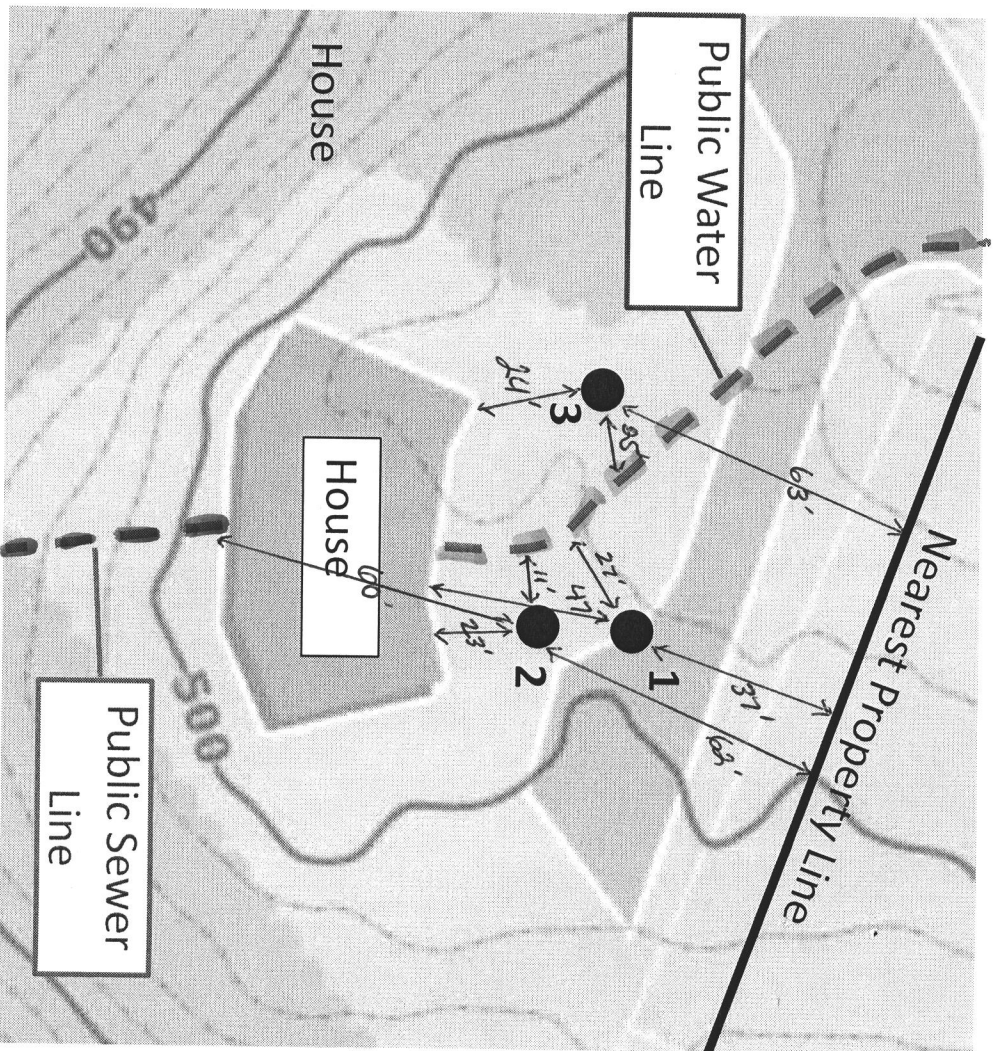


## Measured Distances from Geo Wells 1, 2 & 3

	1	2	3
To House	47'	23'	24'
To Water Line	27'	11'	25'
To Sewer Line	80'	60'	74'
To Property Line	37'	62'	63'

Water and sewer lines located and marked  
by Elite Utility Locating on 09/02/20.

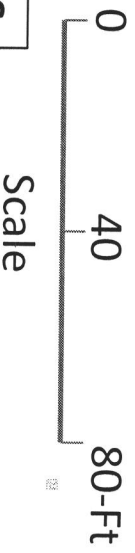
Base map for layout is from: <https://data.howardcountymd.gov/InteractiveMap.html#>



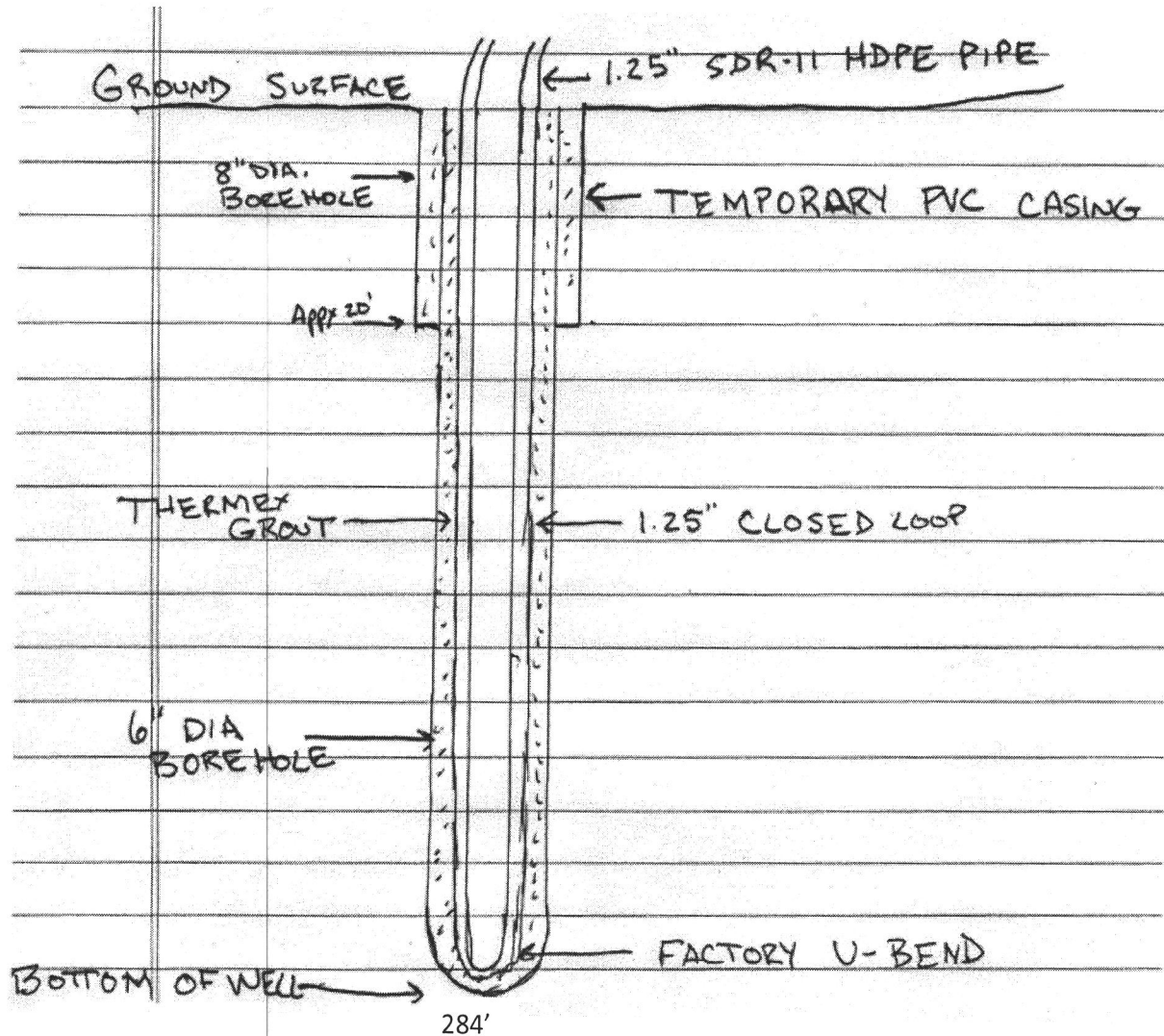
## PROPOSED GEOTHERMAL WELL LOCATIONS

Nathan Alexander Residence

4628 Roundhill Rd, Ellicott City, MD 21043



Alexander Residence: 4628 Roundhill Rd. Ellicott City Geothermal Closed Loop



3 closed loop geo-wells to 284' ft. each in depth

Grout information for this property is as follows:

Thermex grout mixture of 50 lb. grout to 19 gallons water, placed in the well using the tremie method, from bottom to top.