

| C 1 650/8 SECUENCE NO. (MDE USE ONLY) | STATE OF MARYLAND WELL COMPLETION REPORT | THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. |
|--|--|--|
| 1 2 3 (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 WELL COMP | Depth of Well APPLOAD 20 26 TO NEAREST FOOT) | PERMIT NO. FROM "PERMIT TO DRILL WELL" HO - 20 - 0060 28 29 30 31 32 33 34 35 36 3 |
| OWNER Thompson | Christina | 71 9 4 |
| WELL SITE ADDRESS lest name 3075 SUBDIVISION 802 | SECTION TOWN | LOT |
| SUBDIVISION 800 & WELL LOG | GROUTING RECORD POS NO | C[3] |
| Not required for driven wells | WELL HAS BEEN GROUTED (Circle Appropriate Box) | 1 2 PUMPING TEST |
| STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING | TYPE OF GROUTING MATERIAL (Circle one) | HOURS PUMPED (nearest hour) |
| DESCRIPTION (Use additional sheets if needed) FROM TO check if water bearing the check if water beari | | PUMPING RATE (gal. per min.) |
| Top Soil 0 1 | GALLONS OF WATER 340 | METHOD USED TO |
| | from tt. to do ft. | MATER LEVEL (distance from land outless) |
| Sity Clay 1 28 | 48 TOP 52 54 BOTTOM 58 (enter 0 if from surface) | WATER LEVEL (distance from land surface) BEFORE PUMPING ft. |
| Telom | casing types insert CASING RECORD CO | 17 11/12 |
| Weathoud 28 35 - | (appropriate code STEEL CONCRETE | WHEN PUMPING 22 25 ft. |
| Weathered 08 35 | PLASTIC OTHER | TYPE OF PUMP USED (for test) A air P piston T turbine |
| | MAIN Nominal diameter Total depth CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot) | C centrifugal R rotary O other (describ |
| P. 6 4 035 200 | | 27 below) |
| Rock. Hard 35 200 | 60 61 63 64 66 70 E OTHER CASING (if used) | J jet S submersible |
| Dive | C diameter depth (feet) | PUMP INSTALLED |
| | Š S | DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) |
| | N | IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. |
| Installact | screen type or open hole ST BR HO | TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) 29 |
| closed lap | insert appropriate BRASS BRONZE HOLE | IN BOX 29. CAPACITY: |
| geothermal | code below PL OT | (to nearest gallon) 31 3 |
| | PLASTIC OTHER | PUMP HORSE POWER |
| NUMBER OF UNSUCCESSFUL WELLS: | C 2 DEPTH (nearest ft.) | PUMP COLUMN LENGTH (nearest ft.) |
| WEEL HYDROFRACTURED Yes Y | E 1 15 17 21 | CASING HEIGHT (circle appropriate box and enter casing height) |
| CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED | C 2 3 24 26 30 32 36 | + above LAND SURFACE |
| WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED | S C 3 R 38 39 41 45 47 51 | below below (nearest foot) |
| P TEST WELL CONVERTED TO PRODUCTION WELL | E SLOT SIZE 1 2 3 | LATITUDE 39.287584 |
| I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.0 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE | DIAMETER (NEAREST | LONGITUDE 76.829570 |
| CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. | O SOMECH TO THE STATE OF THE ST | (DEFAULT COORD. WGS 84) Purtuant to \$10-624 of the State Govt. Article of |
| DRILLERS MC. NO. 1 MWD \$ 28 A | GRAVEL PACK | the Maryand Code personal info. requested on this form is used in processing this form pursuant |
| DRILLERS SIGNATURE | WAS FLOWING WELL WINSERT F IN BOX 68 68 | 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 |
| (MUST MATCH SIGNATURE ON APPLICATION) | MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) | form. The Maryland Department of the Environment is subject to the Maryland Public |
| LIC. NO.1 D 1 | T (E.R.O.S.) W Q | Information Act. This form may be made available on the Internet via MDE's website and is |
| SITE SUPERVISOR (sign. of driller or journeyman | 70 72 TELESCOPE LOG 74 75 76 | subject to inspection or copying, in whole or in part, by the pulic and other governmental agencies, if not protected by federal or state law. |
| responsible for sitework if different from permittee) | CASING INDICATOR OTHER DATA | agenties, it not protected by redetal or state law. |

| SEQUENCE NO. | | TAGEGEO |
|--|---|--|
| 48275 | STATE OF MARYLAND PPLICATION FOR PERMIT TO DRILL WELL | STATE PERMIT NUMBER H6 - 20 - 0060 |
| Date Received (ARA) 8 MM DD YY 13 15 Last Name D Owner F | ATION B 3 HOWATO B COUNTY Rest Name 34 PAGE 23 SUBDIVISION | LOCATION OF WELL Saint Johns Ln 42 |
| Street or RFD Street or RFD 57 Town 70 State 72 DRILLER INFORMATION | 55 SECTION 44 46 Zip 76 S2 NEAREST TOWN | LOT L 48 50 71 |
| Driller's Name 76 Che Superate 600 Sustem 76 Firm Name 670 Ft Smallwood for Boults. Address 600 Sustem 76 Addr | S B 4 SOURCES OF DRILLING WATER 1. P. 6/i.c. 2. 3. | ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) 34 37 ONTO WEST START OF THE WEST START SOUTH DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: DOT BLK: PARCEL 0143 |
| USE FOR WATER (CIRCLE APPRODUCE OF THE PRODUCE OF T | OPRIATE BOX) NOT THEALT ULTURAL COUNTY NAME | COUNTY NO. INSERT S CO SIGNATURE O BE FILLED IN BY DRILLER H DEPARTMENT APPROVAL 13 COUNTY NO. INSERT S 41 L2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| METHOD OF DRILLING (cir | PROPOS SHOW PERMANENT STR ROADS AND/OR LAND DISTANT TOLE ONE) Jetted & DRIVEN TARY (Hydraulic Rotary) DRive-POINT 12/22/2020 | SED LOCATION OF WELL ON LOT UCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, DMARKS AND INDICATE NOT LESS THAN TWO NCE MEASUREMENTS TO WELL THE STATE OF T |
| REPLACEMENT OR DEEPEND (CIRCLE APPROPRIATE BO) THIS WELL WILL NOT REPLACE AN EXISTING THIS WELL WILL REPLACE A WELL THAT WILL ABANDONED AND SEALED | OX) WELL LE BE | |
| AS A STANDBY-CONTACT LOCAL APPROVING FOR POLICY ON STANDBY WELLS THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR D (IF AVAILABLE) 41 Not to be filled in by driller (MDE OR COL | DEEPENED 52 JINTY USE ONLY) Pur Ma is u 26.0 this ins Dep Ma | rsuant to § 10-624 of the State Govt. Article of the ryland Code, personal info requested on this form used in processing this form pursuant to COMAR 04.04. Failure to provide the info may result in s form not being processed. You have the right to pect, amend, or correct this form. The Maryland partment of the Environment is subject to the ryland Public Information Act. This form may be de available on the Internet via MDE's website and |
| APPROP. PERMIT NUMBER PERMIT No. HO - 70 71 72 | is si | ubject to inspection or copying, in whole or in part the public and other governmental agencies, if not stected by federal or State Law. |

3075 St Johns Lane
Ellicott City Md 21042
Thompson Residence
2 wells @ 200' each
with closed loop
geothermal

Well sites ok overhead power - -A 12/2/20 Garage, 45' to Cood 18' Addition Season Sount Johns Lane DRIVE WAY info@chesapeakegeo.com Checopeake Geo - 410-789-5020 Tig driving over Was (public) lines in the yard? What is SHC constructed? 10ft vs soft Setback? 440-200-0-0-0 are the well sites staked?



P.O. BOX 1281 COCKEYSVILLE, MD 21030 410-560-1120 tearp@earpinc.com

PROPERTY: 3075 St. Johns Lane

DATE: August 26, 2020

BILL TO: Christina Thompson

FEE: \$50.00

ADDRESS: c/o Lena Bonds

DESCRIPTION OF INSPECTION: The sewer line could not be inspected due to a tee in the cast iron pipe that the camera could not be pushed past. Since I was unable to view the sewer line outside of house, I recommend the insurance coverage available from HomeServe.

Thomas A. Earp

MDE Approved for Inspection of On-Site Sewage Disposal Systems; Baltimore County Master Plumber License #72A

DISCLAIMER: Because of many factors (water usage, age, soil and weather conditions, etc.) of which EARP INC. has no control over; this report shall not be construed as a warranty by EARP INC., either expressed or implied, that the system will continue to function properly.

Department of Inspections Licenses and Permits

3430 Court House Drive Ellicott City, MD 21043

Permits (410) 313-2455 Opt. #4

':\Updated Forms\HVAC application Rev:09.2019

HOWARD COUNTY RESIDENTIAL **HEATING-VENTILATION-AIR** CONDITIONING AND REFRIGERATION PERMIT APPLICATION

HVACR PERMIT # M 2000919

BUILDING PERMIT #

| Inspections (410) 313-1840 | | | | | |
|--|------------------|------------------------------|------------------------------|--|--|
| SITE BUILDING ADDRESS: | SUITE/APT: | OWNERS NAME: | cistina Thompson | | |
| 3075 St. Johns Lane | | ADDRESS: 3075 St. Johns Lane | | | |
| SUBDIVISION: | | CITY: Ellicott | | | |
| TYPE OF IMPROVEMENTS: Install (2) Water unace geothernal Systems USE: | | STATE: MD HOME PHONE: | ZIP CODE: 2/042 | | |
| | | CELL PHONE: | 43-928-5604 | | |
| CHECK ON | E HOW MANY | | tal Comfort Heating & A/C | | |
| SINGLE FAMILY DWELLING | □ <u>2</u> zones | | ames E. Aaron | | |
| SINGLE FAMILY TOWNHOUSE | D ZONES | CITY: Hagersto | margaret Drive | | |
| MULTI-FAMILY / HOTEL/MOTEL | ROOMS | STATE: | ZIP CODE: 21742 | | |
| ASSISTED LIVING HOMES (16 OR FEWER RESIDENTS) | ROOMS | PHONE: 301-745-376 | HVACR LICENSE NO: 5833-01 | | |
| New Construction | | | | | |
| **Make and Model of Equipment is required** ***Replacement Geo Thermal Systems are not required; However, if a tax credit is being sought a permit is required**** | | | | | |
| Zones | _ | Rooms | | | |
| Permit Fee = # of Zones x \$40 = Technology Fee (10% of Permit Fee) = Plus Application Fee Total Fees Due = 2 \$50.1 | | 00 Plus Application Fe | % of Permit Fee) = | | |
| I HAVE CAREFULLY EXAMINED AND READ THIS APPLICATION AND KNOW IT IS TRUEAND CORRECT. THE WORK DESCRIBED HEREIN WILL BE PERFORMED BY A STATE HVACRLICENSED PERSON(S), AND ALL WORK WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE CODES AND STANDARDS OF HOWARD COUNTY THE STATE OF MARYLAND. | | | | | |
| SIGNATURE OF LICENSEE DATE Validation | | | | | |
| James E. A | aron | Approved | . 1 | | |
| Jim a tchua | c-net | HOWard Coun | WHealth Department | | |
| Imail Address | | | 07/15/201 11 2001 | | |
| 1ake check payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY Signalure Invoice Number 10 88 | | | | | |

WELL SCHEMATIC FORM GROUND SURFACE PERMANENT OUTER CASING (if area contaminated) MATERIAL DIAMETER PERMANENT OUTER LENGTH CASING DEPTH INTO CONFINING UNIT -----TUBE CASING (if not regular, single loop) ATTACH HORIZONTAL SCHEMATIC NUMBER OF TUBES PER BOREHOLE DIAMETER OF TUBES MATERIAL SHAPE AND LENGTH Vertical, Round, 200' TUBE CONNECTION METHOD FUSION - Factory TUBE CONNECTION MATERIAL HDPE **CONFINING UNIT** LOOP PIPE CASING (regular, single loop) MATERIAL HDPE? NO 🗆 DIAMETER LENGTH **GROUT** Bentonite 2.5 x 10 °8 cm | sec 24 / 50 20 °/0 MATERIAL PERMEABILITY WATER / GROUT RATIO PERCENT SOLIDS TREMIE GROUTED FROM YES 🗶 NO [BOTTOM OF BOREHOLE? USING A POSITIVE DISPLACEMENT PUMP? YES 🔀 NO 🗆 DEPTH TO THE BOTTOM OF HOLE DIAMETER OF BOREHOLE WELLOWNER: Christing Thompson WELL ADDRESS 3075 St Johns Land Ellicott City Md 21042 OWNER ADDRESS: LOT NUMBER: 3075 St Johnson SQUARE NUMBER:

Elliat City Md 21042

TOP FUSED MANIFOLD





BOTTOM (U-BENDS)



