



HOWARD COUNTY HEALTH DEPARTMENT

66396

WS

DATE 10/31/19

Received From

Chesapeake Geo Systems PHONE # 410-289-5020

For

Will Permet / 2512 Daisy Rd.

CASH

CHECK

NO.

40011

One hundred sixty

Dollars

\$

160.00

Received By

Kling

C 1 67070

SEQUENCE 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 6 (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 Received MM DD YY 02 11 20

DATE WELL COMPLETED MM DD YY 11 20 19

Depth of Well 22 500 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-18-0027

OWNER Steinmetz last name Ryan first name WELL SITE ADDRESS 2512 Daisy Rd TOWN Woodbine SUBDIVISION 1003 SECTION LOT 10

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes handwritten entries: Moist Shiff, Reddish Brown to Brown, m-f Sandy, Micaceous Silt, Weathered Rock, Rock (Schist), 1x Geothermal.

GROUTING RECORD form with fields: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS (22), NO. OF POUNDS (528), GALLONS OF WATER (528), DEPTH OF GROUT SEAL.

CASING RECORD form with fields: MAIN CASING TYPE (ST, CO, PL, OT), Nominal diameter top (main) casing, Total depth of main casing.

OTHER CASING (if used) form with fields: diameter inch, depth (feet) from to.

SCREEN RECORD form with fields: screen type or open hole (ST, BR, HO, PL, OT), insert appropriate code below.

Administrative fields: NUMBER OF UNSUCCESSFUL WELLS, WELL HYDROFRACTURED (Y), CIRCLE APPROPRIATE LETTER (A, E, P).

DEPTH (nearest ft.) table with columns 1-21, SLOT SIZE 1-3, DIAMETER OF SCREEN (NEAREST INCH).

DRILLERS LIC. NO. 1 MWD 598 1, DRILLERS SIGNATURE Wesley A. Wayne, LIC. NO. 1 D 1, SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee).

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q, TELESCOPE CASING, LOG INDICATOR, OTHER DATA.

PUMPING TEST form with fields: HOURS PUMPED (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, J jet, S submersible.

PUMP INSTALLED form with fields: DRILLER INSTALLED PUMP (YES NO), 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, - below, LAND SURFACE (nearest foot) 49 51.

LATITUDE 39.303558, LONGITUDE 77.063412 (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.

TAG = N/A

B 1 64152 SEQUENCE NO. (MDE USE ONLY) **STATE OF MARYLAND** STATE PERMIT NUMBER
APPLICATION FOR PERMIT TO DRILL WELL HO-18-0027
 please type 566396 70 fill in this form completely 79

OWNER INFORMATION
 Date Received (APA) 10-03-19
 8 MM DD YY 13
Steinmetz Ryan
 15 Last Name Owner First Name 34
2512 Daisy Rd.
 36 Street or RFD 55
Woodbine Md 21797
 57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
Howard
 8 COUNTY 21
1003
 23 SUBDIVISION 42
 SECTION 44 46 LOT 10 50
Woodbine
 52 NEAREST TOWN 71

DRILLER INFORMATION
Wesley Wolfe MWD 598
 76 Driller's Name License No. 81
Chesapeake Geosystems Inc
 Firm Name
6720 Ft Smallwood Rd Baltimore Md 21286
 Address
Wesley A Wolfe 9-20-19
 Signature Date

B 4 SOURCES OF DRILLING WATER
 1. Public
 2.
 3.
2512 Daisy Rd
 11 STREET ADDRESS 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH
 WEST EAST
 SOUTH
 34 68 37
 DISTANCE FROM ROAD ET
 ENTER FT OR MI 38 39
 TAX MAP: 2013 BLK: _____ PARCEL 1093

B 2 WELL INFORMATION
 APPROX. PUMPING RATE N/A
 (GAL. PER MIN.) 8 12
 AVERAGE DAILY QUANTITY NEEDED N/A
 (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 bore

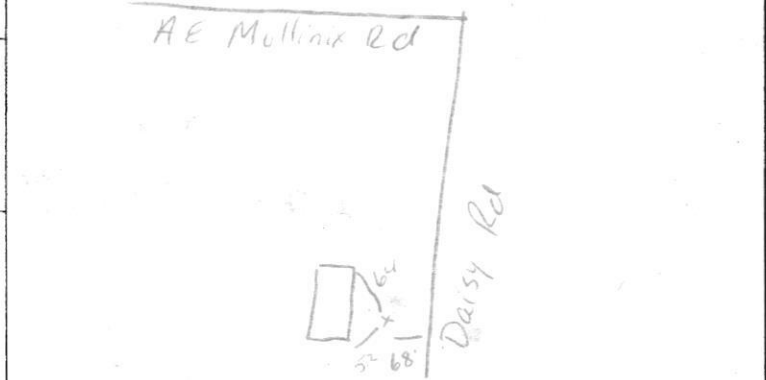
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard 13
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE INSERT S → 41
 DATE ISSUED 10/16/19 10/16/20
 43 MM DD YY 48 CO SIGNATURE EXP. DATE
 Don: 11/11/19 Doc: 11/14/2019

APPROXIMATE DEPTH OF WELL 500 FEET
 24 28

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

APPROXIMATE DIAMETER OF WELL 6 INCH
 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 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. HO-18-0027
 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS
 NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.
grout bottom to top.

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Department of Inspections Licenses and Permits 3430 Court House Drive Ellicott City, MD 21043 Permits (410) 313-2455 Opt. #4 Inspections (410) 313-1840	HOWARD COUNTY RESIDENTIAL HEATING-VENTILATION-AIR CONDITIONING AND REFRIGERATION PERMIT APPLICATION	HVACR PERMIT # <u>M19001049</u> BUILDING PERMIT #
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SITE BUILDING ADDRESS: <u>2512 Daisy Rd</u> SUITE/APT: SUBDIVISION: TYPE OF IMPROVEMENTS: USE:	OWNERS NAME: <u>Ryan Steinmetz</u> ADDRESS: <u>2512 Daisy Rd</u> CITY: <u>Woodbine</u> STATE: <u>MD</u> ZIP CODE: <u>21797</u> HOME PHONE: CELL PHONE: <u>585-305-7014</u>
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<u>CHECK ONE</u>	<u>HOW MANY</u>	COMPANY NAME:
SINGLE FAMILY DWELLING <input checked="" type="checkbox"/>	<u>1</u> ZONES	<u>Total Comfort Htg & AC, Inc.</u>
SINGLE FAMILY TOWNHOUSE <input type="checkbox"/>	___ ZONES	LICENSEE NAME: <u>James E. Aaron</u>
MULTI-FAMILY / HOTEL/MOTEL <input type="checkbox"/>	___ ROOMS	ADDRESS: <u>12009 Margaret Dr.</u>
ASSISTED LIVING HOMES (16 OR FEWER RESIDENTS) <input type="checkbox"/>	___ ROOMS	CITY: <u>Hagerstown</u> STATE: <u>MD</u> ZIP CODE: <u>21742</u> PHONE: <u>301-745-3700</u> HVACR LICENSE NO: <u>5833-01</u>

<u>New Construction</u> <input type="checkbox"/> Heating and Air Conditioning <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Heating <u>Replacement</u> <input type="checkbox"/> Heating <input type="checkbox"/> Air Conditioning <input checked="" type="checkbox"/> Heating and Air Conditioning	<u>Additions and Alterations</u> <input type="checkbox"/> Heating <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Heating and Air Conditioning <u>Remove existing HVAC equipment & install a Water Furnace geothermal Heat pump, model ND2038 with Water Furnace air handler, model SAH036. Vertical ground loop by Chesapeake Geo Systems.</u>	<input checked="" type="checkbox"/> Geo Thermal System <input type="checkbox"/> Gas Conversion (Make and Model of Equipment) <input type="checkbox"/> Ductless Mini Splits <input type="checkbox"/> Thru The Wall Systems <input type="checkbox"/> Other Work (Describe): ***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****
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<u>Zones</u> Permit Fee = # of Zones x \$40 = <u>40.00</u> Technology Fee (10% of Permit Fee) = <u>4.00</u> Plus Application Fee <u>\$50.00</u> Total Fees Due = <u>94.00</u>	<u>Rooms</u> Permit Fee = # of Rooms x \$80 = _____ Technology Fee (10% of Permit Fee) = _____ Plus Application Fee \$50 <u>\$50.00</u> Total Fees Due = _____
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I HAVE CAREFULLY EXAMINED AND READ THIS APPLICATION AND KNOW IT IS TRUE AND CORRECT. THE WORK DESCRIBED HEREIN WILL BE PERFORMED BY A STATE HVAC LICENSED PERSON(S), AND ALL WORK WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE CODES AND STANDARDS OF HOWARD COUNTY THE STATE OF MARYLAND.

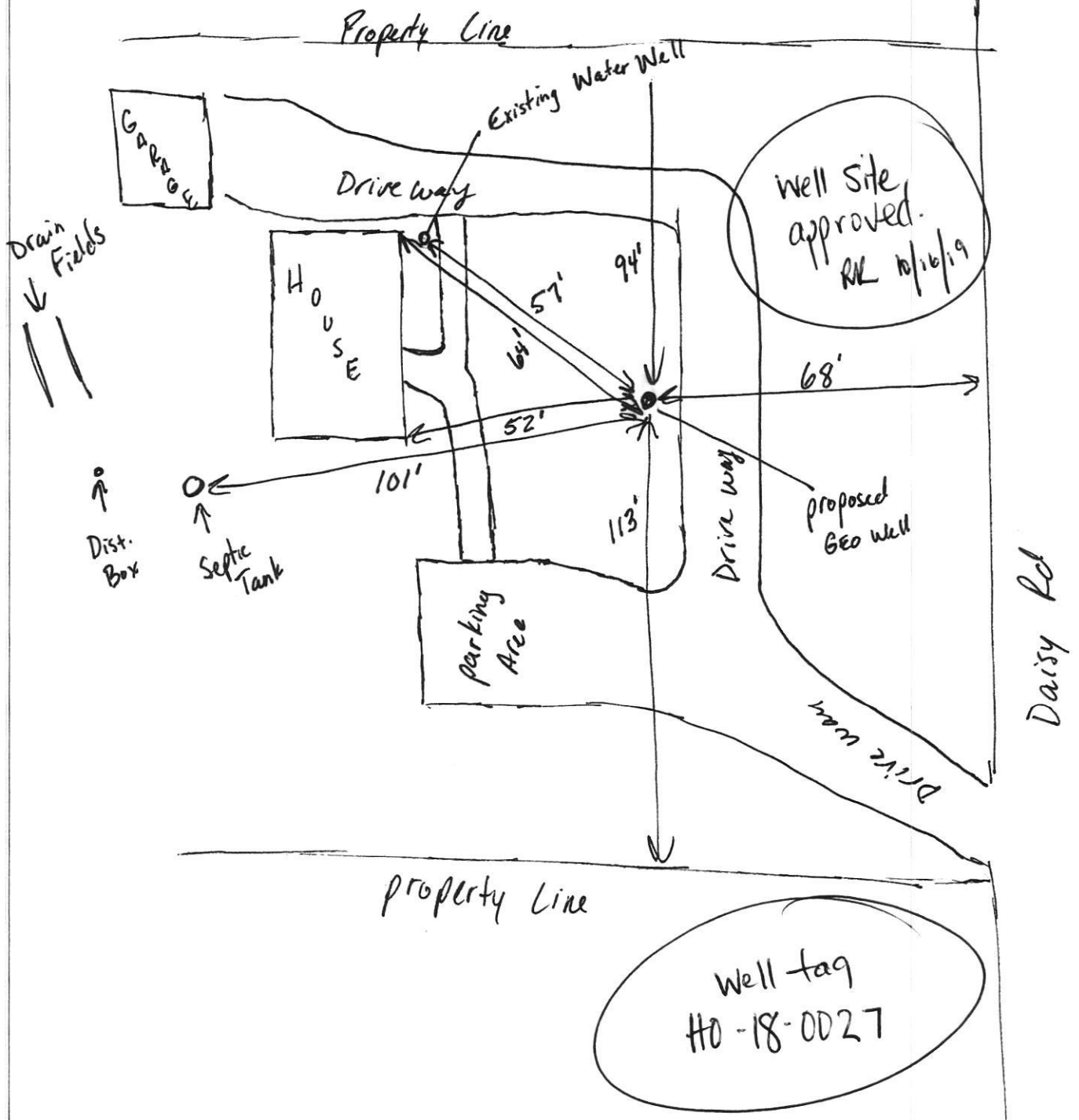
James E. Aaron
 SIGNATURE OF LICENSEE
James E. Aaron
 PRINT NAME OF LICENSEE
Jim@tchvac.net
 Email Address

Approved Septic System Plan
 Howard County Health Department
[Signature] 1/7/2020
 Signature Date

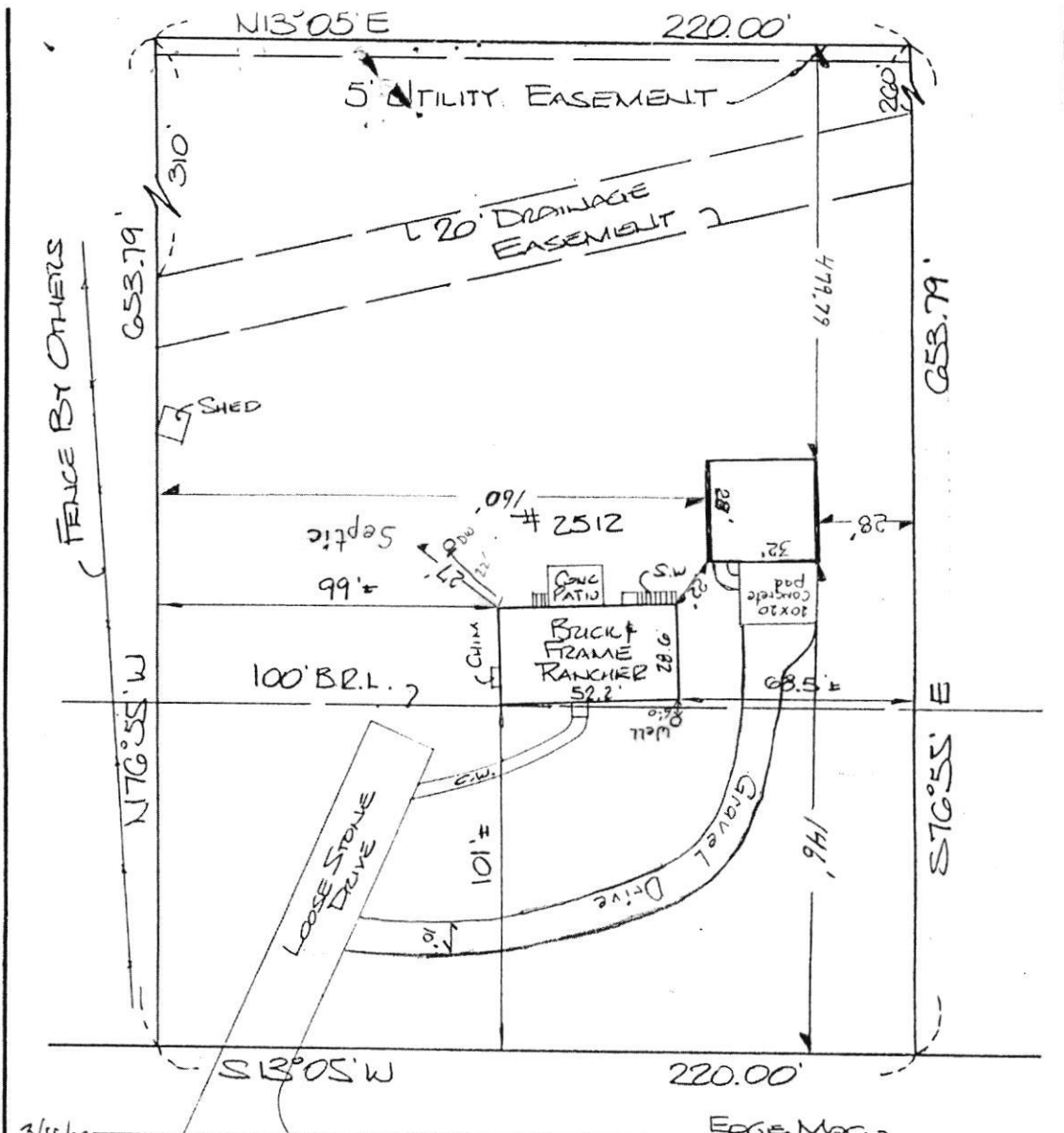
n <u>38</u>
<u>1340</u>

Ryan Steinmetz
2512 Daisy Rd
Woodbine Md 21797

1-well @ 500' with
1.25" Closed Loop Geothermal
with Factory U-Bend



Well tag
HO-18-0027



3/15/02

EDGE MAC

Dry well
 5 1/2' diameter grass
 full-topline
 of discharge

DAISY ROAD
 20' Mac PAVING
 80' RLW

THIS IS TO CERTIFY THAT THE LOT SHOWN HEREON IS NOT IN A FLOOD PLAIN

THIS IS TO CERTIFY That The Improvements Indicated Hereon Are Located As Shown. This Is Not A Property Line Survey And Should Not Be Used As Such.



<p>HICKS ENGINEERING COMPANY, INC. ENGINEERS • SURVEYORS • PLANNERS 200 EAST JOPPA ROAD - SUITE 402 TOWSON, MARYLAND 21204 TELEPHONE: 301/494-0001</p>	<p>LOCATION CERTIFICATION: # 2512 DAISY ROAD LOT #10 SEC I "RIVER FARMS" HOWARD COUNTY P.B. 8/93.</p> <p>DATE: 9/15/87 SCALE: 1"=40' FILE: 4681</p>
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WELL SCHEMATIC FORM

PERMANENT OUTER CASING (if area contaminated)
 MATERIAL _____
 DIAMETER _____
 LENGTH _____
 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 _____
 TUBE CONNECTION METHOD _____
 TUBE CONNECTION MATERIAL _____

LOOP PIPE CASING (regular, single loop)
 MATERIAL HDPE? YES NO
 DIAMETER 1.25"
 LENGTH 500'

GROUT
 MATERIAL Beatonite
 PERMEABILITY 2.5×10^{-8} cm/Sec
 WATER / GROUT RATIO 24 / 50
 PERCENT SOLIDS 20%
 TREMIE GROUTED FROM BOTTOM OF BOREHOLE? YES NO
 USING A POSITIVE DISPLACEMENT PUMP? YES NO

DEPTH TO THE BOTTOM OF HOLE 500
 DIAMETER OF BOREHOLE 6"

WELL ADDRESS 2512 Daisy Rd
Woodbine Md 21793

LOT NUMBER: _____
 SQUARE NUMBER: _____

WELL OWNER: Ryan Steinmetz

OWNER ADDRESS:
2512 Daisy Rd
Woodbine Md 21793