



HOWARD COUNTY HEALTH DEPARTMENT

72870

DATE
11 / 20 / 20

W5

Received From

Chesapeake Geosystems, Inc.

PHONE #

410-789-5020

For

7500 Flamewoods Drive

Charlottesville, MD 21029

Well Drilling

See invoice & receipt

00/00

Dollars

CASH

CHECK

NO.

41009

\$

160.00

Received By

V. Tracy

63081

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-20-0061

DATE RECEIVED MM 05 2013

01 19 2021 APPROVED 07/01/2021

320 (TO NEAREST FOOT)

28 29 30 31 32 33 34 35 36 37

OWNER Shobe Andrew WELL SITE ADDRESS 7500 Flamewood Drive TOWN Clarksville SUBDIVISION 2002 Flamewood SECTION LOT 1

WELL LOG

Not required for driven wells

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

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows include Top Soil, Silty Sand, Weathered Broken Rock, Rock, Hard Grnp, and Installed 1.25' closed loop Geothermal x 2.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES Y NO N TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 45 16 NO. OF POUNDS 45 300 GALLONS OF WATER 384 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 320 ft.

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) N/A PUMPING RATE (gal. per min.) N/A METHOD USED TO MEASURE PUMPING RATE N/A WATER LEVEL (distance from land surface) BEFORE PUMPING 30 ft. WHEN PUMPING N/A ft. TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other J jet S submersible

CASING RECORD

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)

Table with columns: diameter inch, depth (feet) from to

SCREEN RECORD

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

C 2

DEPTH (nearest ft.)

Table with columns: 1, 2, 11, 15, 17, 21, 23, 24, 26, 30, 32, 36, 38, 39, 41, 45, 47, 51. Includes SLOT SIZE and DIAMETER OF SCREEN (NEAREST INCH) from to

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES 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 36 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 3 (nearest foot)

NUMBER OF UNSUCCESSFUL WELLS:

WELL HYDROFRACTURED YES Y NO 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: M Wp 598 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1: D

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

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

LATITUDE 39.165527 LONGITUDE 76.910750 (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.

B 1 SEQUENCE NO. (MDE USE ONLY) **48281** STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL STATE PERMIT NUMBER **HO-20-0061**
 572870 please type **70** fill in this form completely **79**

OWNER INFORMATION
 Date Received (APA) **11-20-20**
 8 MM DD YY 13
 15 Last Name **Shobe** Owner **Andrew** First Name 34
 36 Street or RFD **7500 Flamewood Drive** 55
 57 Town **Clarksville** 70 State **Md** 72 Zip **21029** 76

B 3 LOCATION OF WELL
 8 COUNTY **Howard** 21
 23 SUBDIVISION **2002 Flamewood** 42
 SECTION 44 46 LOT **1** 48 50
 52 NEAREST TOWN **Highland** 71

DRILLER INFORMATION
 Driller's Name **Wesley Wolf** License No. **MWD 598** 76 81
 Firm Name **Chesapeake Geosystems Inc**
 Address **6720 F Smallwood Rd Baltimore Md 21226**
 Signature **Wesley A Wolf** Date **10-29-2020**

B 4 SOURCES OF DRILLING WATER
 1. Public
 2. **1/19/21**
 3. **Grout**
 11 STREET ADDRESS **7500 Flamewood Drive** 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH
 WEST EAST
 SOUTH
 34 **250** 37 DISTANCE FROM ROAD
 ENTER FT OR MI 38 39
 TAX MAP: **0041** BLK: _____ PARCEL **0415**

B 2 WELL INFORMATION
 APPROX. PUMPING RATE (GAL. PER MIN.) **N/A** 8 12
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **N/A** 14 20

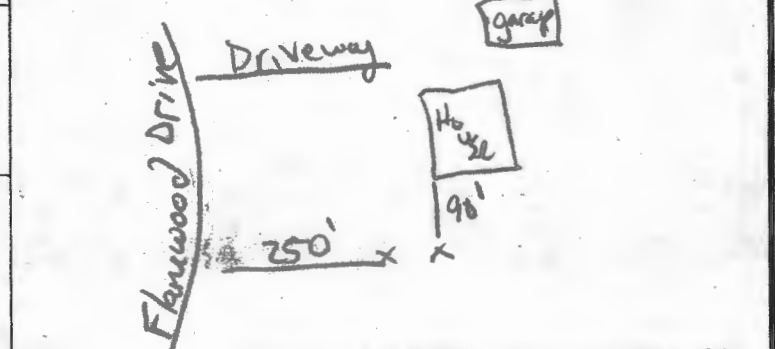
USE FOR WATER (CIRCLE APPROPRIATE BOX)
 DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, DEWATERING
 PUBLIC WATER SUPPLY WELL
 TEST, OBSERVATION, MONITORING
 OPEN LOOP GEOTHERMAL
 CLOSED LOOP GEOTHERMAL **2 bores**

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
 COUNTY NAME **Howard** COUNTY NO. **13**
 STATE SIGNATURE _____ INSERT S →
 DATE ISSUED **12/3/20** CO SIGNATURE **R...** EXP. DATE **12/3/21**
 43 MM DD YY 48

APPROXIMATE DEPTH OF WELL **320** 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-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-20-0061**
 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 (both wells)**

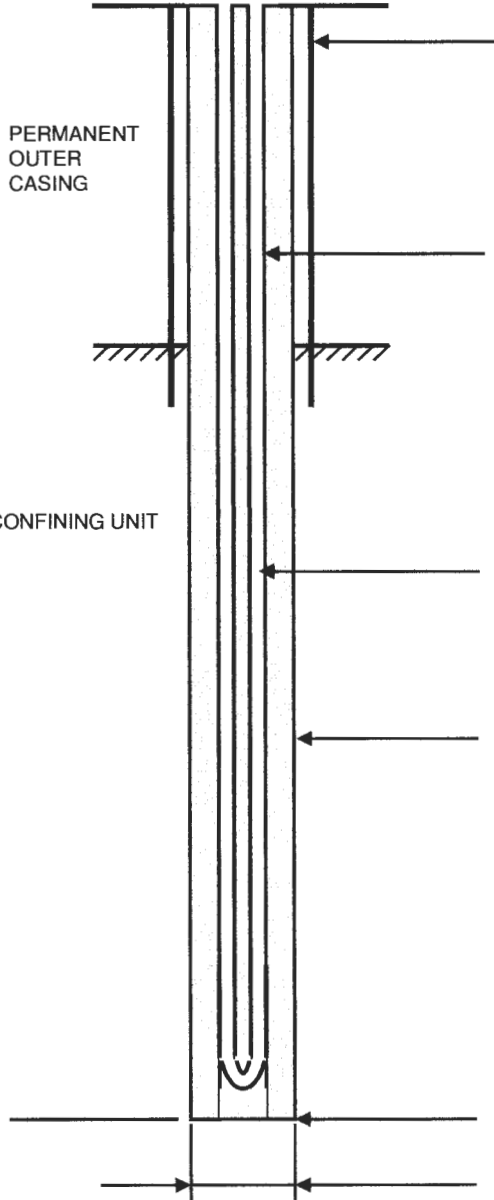
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WELL SCHEMATIC FORM

GROUND SURFACE

PERMANENT
OUTER
CASING

CONFINING UNIT



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 320

GROUT

MATERIAL Bentonite
 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 320

DIAMETER OF BOREHOLE 6

WELL ADDRESS

7500 Flamewood Dr
Clarksville Md 21029

LOT NUMBER: 1

SQUARE NUMBER: _____

WELL OWNER:

Andrew Shobe

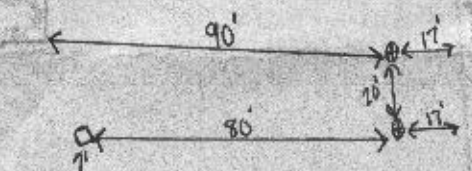
OWNER ADDRESS:

7500 Flamewood Dr.
Clarksville Md

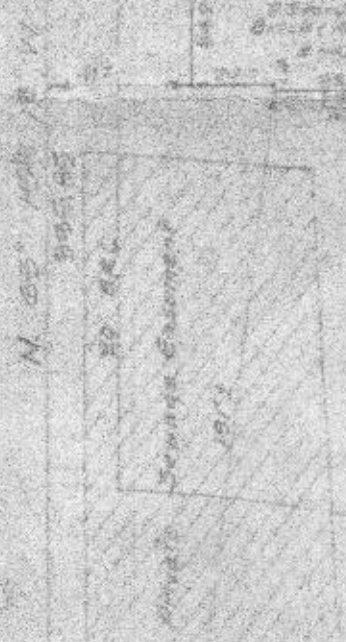
N 25° 40' 00" E

30' Storm Drainage Easement

2 wells @ 320' each
1.25" Closed Loop
w/ Factory U-Bend



12/3/20
Well sites ok
field verified
well stakes 12/3/20
RST



FLAMEWOOD DRIVE

CERTIFICATION
I hereby certify that the position of all the existing improvements on the above described property has been carefully established by a transit-tape survey and that unless otherwise shown, there are no encroachments.

W. Stanley Machen
W. STANLEY MACHEN, REGISTERED
LAND SURVEYOR, MD. No. 2607

OFFICE OF
W. STANLEY MACHEN
REGISTERED LAND SURVEYOR
1328 FARRAGUT ST.
HYATTSVILLE, MD.
(PHONE) 4-5119

HOUSE LOCATION
LOT 1 BLOCK D
SECTION 3 AREA 1
FLAMEWOOD
HOWARD COUNTY, MARYLAND
SCALE: 1"=50' AUG 8 1981
PLAT REFERENCE: 2520

0-5-81 L-21080