

C1 36810

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED 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 13

ST/CO USE ONLY DATE RECEIVED 10/11/16

DATE WELL COMPLETED 08/09/16

Depth of Well 22 240/480 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-15-0288

OWNER Darnody James WELL SITE ADDRESS 14641 Viburnum Drive TOWN Dayton, MD 21036-1246 SUBDIVISION SECTION LOT 22

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. Includes entries for Silty clay, brown moist, medium stiff; Weathered Rock medium hard; Water at 160'; Rock Hard Gray; Installed 1" loop in 240' wells; Installed 1.25" loop in 480' well; Closed Loop Geothermal.

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 13/24 NO. OF POUNDS 650/1200 GALLONS OF WATER 312/576 DEPTH OF GROUT SEAL (to nearest foot) from 3 ft. to 240/480 ft.

CASING RECORD

STAINLESS STEEL [ST] CONCRETE [CO] PLASTIC [PL] OTHER [OT] MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch)! Total depth of main casing (nearest foot)

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD

screen type or open hole [ST] [BR] [HO] [PL] [OT] insert appropriate code below

DEPTH (nearest ft.)

Table with columns: E A C H S R E E N, 1 2, 8 9 11, 15 17, 21, 23 24 26, 30 32, 36, 38 39 41, 45 47, 51. Includes SLOT SIZE 1 2 3 and DIAMETER OF SCREEN (NEAREST INCH) from 56 to 60.

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

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 6.0 ft. WHEN PUMPING N/A TYPE OF PUMP USED (for test) [A] air [P] piston [T] turbine [C] centrifugal [R] rotary [O] other [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 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 [ ] below LAND SURFACE 3 (nearest foot)

LATITUDE 39.226024 LONGITUDE -77.022091 (DEFAULT COORD. WGS 84)

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B 1  
43396

SEQUENCE NO.  
(MDE USE ONLY)

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

Ho- 15- 0288

70 fill in this form completely 79

1 2 3 6

558808 please type

Date Received (APA)  
07/29/16

OWNER INFORMATION

8 MM DD YY 13

15 Last Name Darmody Owner First Name James 34

36 Street or RFD 14641 Viburnum Drive 55

57 Town Dayton, MD 70 State MD 72 Zip 21036-1246 76

B 3

LOCATION OF WELL

8 COUNTY Howard County 21

23 SUBDIVISION \_\_\_\_\_ 42

SECTION 44 46 LOT 22 48 50

52 NEAREST TOWN Dayton 71

DRILLER INFORMATION

Driller's Name Jeff Carron 76 License No. M WD 567 81

Firm Name Chesapeake Geosystems, Inc.

Address 6720 Fort Smallwood Rd Balt.

Signature [Signature] Date 7/18/16

B 4

SOURCES OF DRILLING WATER

- 1. municipal
- 2.
- 3.

11 STREET ADDRESS 14641 Viburnum Dr. 30

ON WHICH SIDE OF ROAD  
(CIRCLE APPROPRIATE BOX)



34 244 37  
DISTANCE FROM ROAD  
ENTER FT OR MI FT 38 39

TAX MAP: 27 BLK: 16 PARCEL 22

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

NOT TO BE FILLED IN BY DRILLER  
HEALTH DEPARTMENT APPROVAL

COUNTY NAME Howard COUNTY NO. (13)

STATE SIGNATURE \_\_\_\_\_ INSERT S → 41

DATE ISSUED 8/3/16 CO SIGNATURE Suh LL EXP. DATE 8/3/17  
43 MM DD YY 48

APPROXIMATE DEPTH OF WELL 290 FEET 480'  
24 28

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered)  JETTED  Jetted & DRIVEN
- AIR-ROTary  AIR-PERcussion  ROTARY (Hydraulic Rotary)
- CABLE  REVerse-ROTary  DRive-POINT

REPLACEMENT OR DEEPEMED WELLS  
(CIRCLE APPROPRIATE BOX)

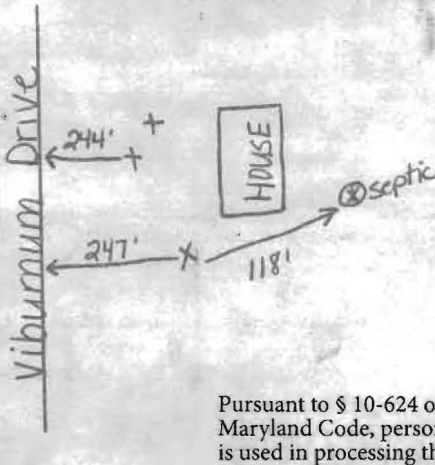
- THIS WELL WILL NOT REPLACE AN EXISTING WELL
- THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
- THIS WELL WILL DEEPEAN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED  
(IF AVAILABLE) 41 \_\_\_\_\_ 52

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER \_\_\_\_\_ G \_\_\_\_\_  
PERMIT No. Ho- 15- 0288  
70 71 72 73 74 75 76 77 78 79

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



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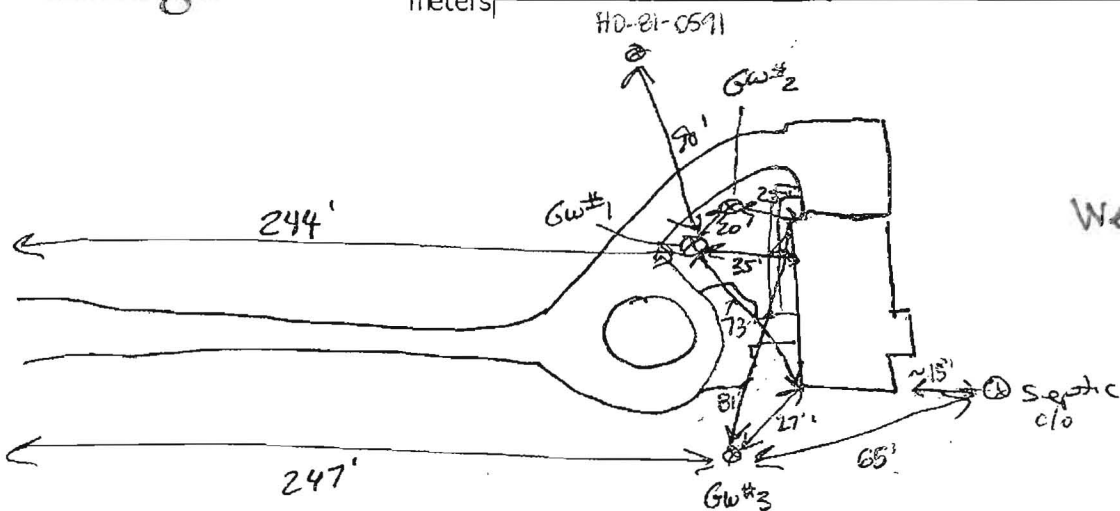
SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED-

39.226024 -77.022091



Google earth



Well sites approved  
8/3/16 SC

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

**HO-15-0288**

INFORMATION-GIVE NUMBER AND WRITE  
1800 WASHINGTON BLVD  
BALTIMORE MARYLAND. 21230

Gw#1 + #2  
240' wells  
1" closed Coops  
factory U-Bend

Gw#3  
480' well  
1.25" closed Cap  
factory U-Bend

# WELL SCHEMATIC FORM

**GROUND SURFACE**

**PERMANENT OUTER CASING (if area contaminated)**

MATERIAL \_\_\_\_\_  
 DIAMETER \_\_\_\_\_  
 LENGTH \_\_\_\_\_  
 DEPTH INTO CONFINING UNIT \_\_\_\_\_

**PERMANENT OUTER CASING**

**TUBE CASING (if not regular, single loop)**

ATTACH HORIZONTAL SCHEMATIC \_\_\_\_\_  
 NUMBER OF TUBES PER BOREHOLE 2  
 DIAMETER OF TUBES 1" & 1.25"  
 MATERIAL HDPE  
 SHAPE AND LENGTH \_\_\_\_\_  
 TUBE CONNECTION METHOD Fusion  
 TUBE CONNECTION MATERIAL HDPE

**CONFINING UNIT**

**LOOP PIPE CASING (regular, single loop)**

MATERIAL HDPE? YES  NO   
 DIAMETER 1" & 1.25"  
 LENGTH 300' & 480'

**GROUT**

MATERIAL Thermax / Bentonite  
 PERMEABILITY 1x10<sup>-8</sup>  
 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 2 wells @ 300' / well @ 480'

DIAMETER OF BOREHOLE 6"

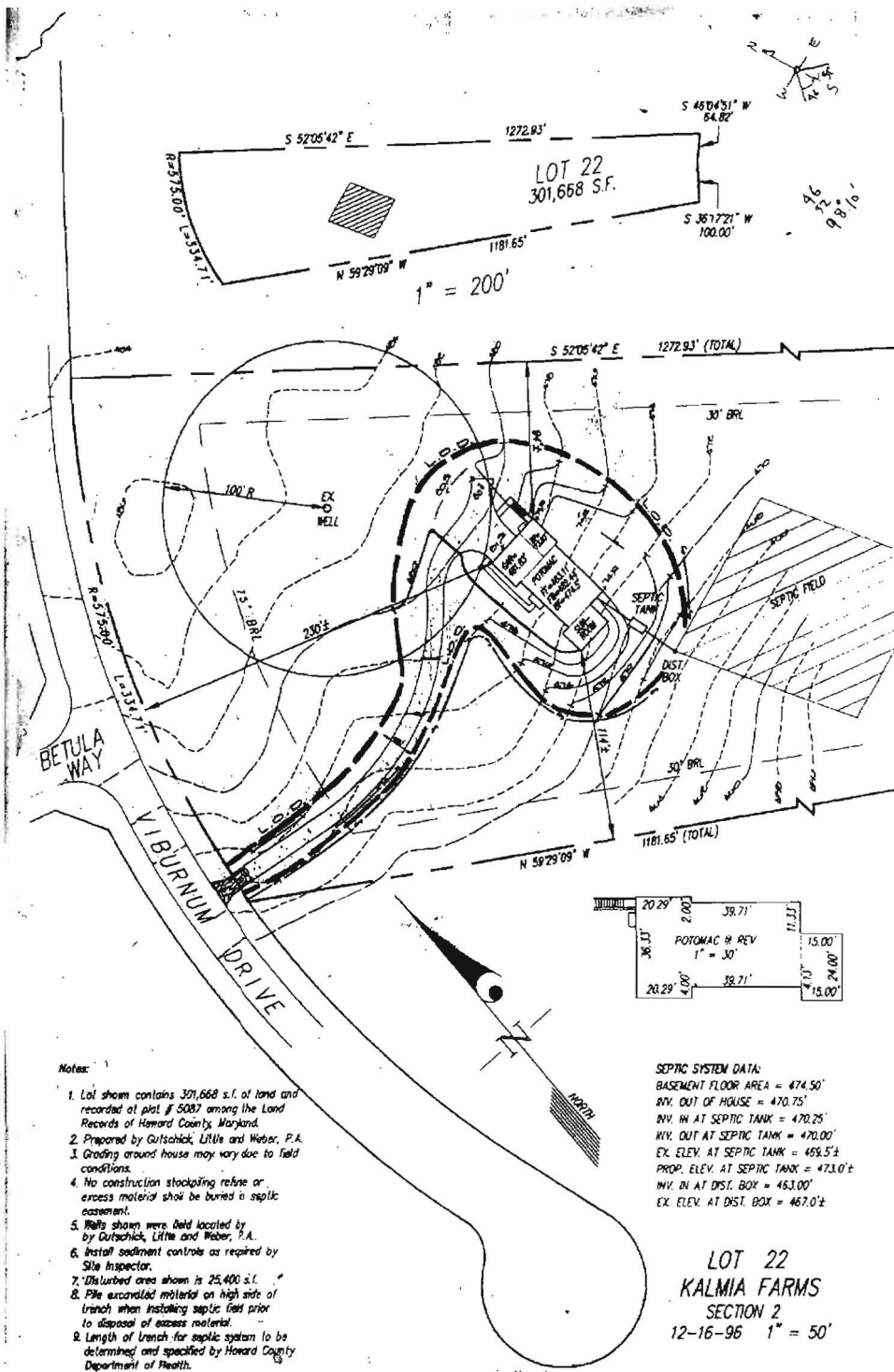
WELL ADDRESS 14641  
Viburnum Drive  
Dayton Md  
 LOT NUMBER: \_\_\_\_\_  
 SQUARE NUMBER: \_\_\_\_\_

WELL OWNER: Darmody  
 OWNER ADDRESS:  
14641  
Viburnum Drive  
Dayton Md

\_\_\_\_\_

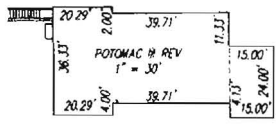
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**Notes:**

1. Lot shown contains 301,668 s.f. of land and recorded at plot # 5087 among the Land Records of Howard County, Maryland.
2. Prepared by Gutschick, Little and Weber, P.A.
3. Grading around house may vary due to field conditions.
4. No construction stockpiling refuse or excess material shall be buried in septic easement.
5. Utility shown were field located by Gutschick, Little and Weber, P.A.
6. Install sediment controls as required by Site Inspector.
7. Disturbed area shown is 25,400 s.f.
8. Pile excavated material on high side of trench when installing septic field prior to disposal of excess material.
9. Length of trench for septic system to be determined and specified by Howard County Department of Health.



**SEPTIC SYSTEM DATA:**  
 BASEMENT FLOOR AREA = 474.50'  
 INV. OUT OF HOUSE = 470.75'  
 INV. IN AT SEPTIC TANK = 470.25'  
 INV. OUT AT SEPTIC TANK = 470.00'  
 EX. ELEV. AT SEPTIC TANK = 469.5'±  
 PROP. ELEV. AT SEPTIC TANK = 473.0'±  
 INV. IN AT DIST. BOX = 463.00'  
 EX. ELEV. AT DIST. BOX = 467.0'±

