

2 bore hole geothermal Replacement

|                                                                          |       |                                                         |                                                                                                          |                                                 |                                                                          |  |
|--------------------------------------------------------------------------|-------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------|--|
| C 1                                                                      | 48242 | SEQUENCE NO.<br>(MDE USE ONLY)                          | <b>STATE OF MARYLAND</b><br><b>WELL COMPLETION REPORT</b><br>FILL IN THIS FORM COMPLETELY<br>PLEASE TYPE |                                                 | THIS REPORT MUST BE SUBMITTED WITHIN<br>45 DAYS AFTER WELL IS COMPLETED. |  |
| 1 2 3 4 5<br>(THIS NUMBER IS TO BE PUNCHED<br>IN COLS. 3-6 ON ALL CARDS) |       | DATE WELL COMPLETED<br>MM 06 DD 27 YY 2017              |                                                                                                          | Depth of Well<br>22 320 26<br>(TO NEAREST FOOT) |                                                                          |  |
| ST/CO USE ONLY<br>DATE RECEIVED<br>MM 01 DD 09 YY 18                     |       | PERMIT NO.<br>FROM "PERMIT TO DRILL WELL"<br>HO-17-0180 |                                                                                                          | COUNTY<br>NUMBER XIII                           |                                                                          |  |
| OWNER <u>Ogg Kevin</u>                                                   |       | TOWN <u>Ellicott City, MD 21042</u>                     |                                                                                                          | LOT <u>13</u>                                   |                                                                          |  |
| WELL SITE ADDRESS <u>9132 Riverside Circle</u>                           |       | SECTION                                                 |                                                                                                          | LOT                                             |                                                                          |  |
| SUBDIVISION                                                              |       | SECTION                                                 |                                                                                                          | LOT                                             |                                                                          |  |

**WELL LOG**  
Not required for driven wells

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

| DESCRIPTION (Use<br>additional sheets if needed) | FEET |     | check<br>if water<br>bearing |
|--------------------------------------------------|------|-----|------------------------------|
|                                                  | FROM | TO  |                              |
| Silty sand.                                      |      |     |                              |
| Medium stiff,<br>Brown                           | 0    | 40  |                              |
| Weathered Rock                                   | 40   | 60  |                              |
| Rock, hard gray                                  | 60   | 320 | ✓                            |

Installed 1.25"  
closed loop  
geothermal  
wells  
11/6/18 Soil profiles  
the same for  
both bore holes

**GROUTING RECORD**

WELL HAS BEEN GROUTED  
(Circle Appropriate Box) YES ☒ NO ☐

TYPE OF GROUTING MATERIAL (Circle one)  
CEMENT ☒ BENTONITE CLAY ☒

NO. OF BAGS 18 NO. OF POUNDS 4980

GALLONS OF WATER 378

DEPTH OF GROUT SEAL (to nearest foot)  
from 0 ft. to 320 ft.  
(enter 0 if from surface)

**CASING RECORD**

case types insert appropriate code below

STEEL ☒ CONCRETE ☒  
PLASTIC ☒ OTHER ☒

MAIN CASING TYPE

Nominal diameter top (main) casing (nearest inch) 60

Total depth of main casing (nearest foot) 320

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

**SCREEN RECORD**

screen type or open hole insert appropriate code below

STEEL ☒ BRASS ☒ OPEN HOLE ☒  
PLASTIC ☒ OTHER ☒

**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 (describe below)  
J jet S submersible

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES ☒ NO ☐

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. MWD 567

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. D

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

**C 2**

DEPTH (nearest ft.)

E 8 9 11 15 17 21

A 23 24 26 30 32 36

S 38 39 41 45 47 51

R

E

N

SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH)

from to

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

**PUMP INSTALLED**

DRILLER INSTALLED PUMP 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) 31 36

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height)

+ above } LAND SURFACE 3 (nearest foot)

- below }

LATITUDE 39.152754

LONGITUDE 76.505525

(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>B 1</b><br><div style="border: 1px solid black; padding: 5px; font-size: 24px; font-weight: bold; margin-top: 10px;">57942</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SEQUENCE NO.<br>(MDE USE ONLY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>STATE OF MARYLAND</b><br><b>APPLICATION FOR PERMIT TO DRILL WELL</b><br>please type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | STATE PERMIT NUMBER<br><div style="font-size: 24px; font-weight: bold; margin-top: 10px;">40-17-0180</div> <div style="font-size: 10px; text-align: center;">fill in this form completely</div> |
| Date Received (APA)<br><div style="font-size: 24px; font-weight: bold; margin-top: 10px;">09/14/17</div> <div style="font-size: 10px; text-align: center;">8 MM DO YY 13</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>B 3 LOCATION OF WELL</b><br><div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Howard County</div> <div style="font-size: 10px; text-align: center;">8 COUNTY 21</div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">9732 Riverside Circle</div> <div style="font-size: 10px; text-align: center;">23 SUBDIVISION 42</div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Ellicott City, MD 21042</div> <div style="font-size: 10px; text-align: center;">57 Town 70 State 72 Zip 76</div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                 |
| <b>OWNER INFORMATION</b><br><div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Kevin</div> <div style="font-size: 10px; text-align: center;">15 Last Name Owner First Name 34</div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">9732 Riverside Circle</div> <div style="font-size: 10px; text-align: center;">36 Street or RFD 55</div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Ellicott City, MD 21042</div> <div style="font-size: 10px; text-align: center;">57 Town 70 State 72 Zip 76</div>                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>DRILLER INFORMATION</b><br><div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Jeff Corran</div> <div style="font-size: 10px; text-align: center;">76 Driller's Name License No. 81</div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Chesapeake Geosystems, Inc.</div> <div style="font-size: 10px; text-align: center;">Firm Name</div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">16720 Fort Smallwood Rd Balt. 21226</div> <div style="font-size: 10px; text-align: center;">Address</div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Jeff Corran</div> <div style="font-size: 10px; text-align: center;">Signature Date</div> |                                                                                                                                                                                                 |
| <b>B 2 WELL INFORMATION</b><br>APPROX. PUMPING RATE (GAL. PER MIN.)<br><div style="font-size: 24px; font-weight: bold; margin-top: 10px;">N/A</div> <div style="font-size: 10px; text-align: center;">8 12</div> AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)<br><div style="font-size: 24px; font-weight: bold; margin-top: 10px;">N/A</div> <div style="font-size: 10px; text-align: center;">14 20</div>                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>SOURCES OF DRILLING WATER</b><br>1. municipal<br>2.<br>3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                 |
| <b>USE FOR WATER (CIRCLE APPROPRIATE BOX)</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> DOMESTIC POTABLE SUPPLY &amp; RESIDENTIAL IRRIGATION<br/> <input type="checkbox"/> FARMING (LIVESTOCK WATERING &amp; AGRICULTURAL IRRIGATION)<br/> <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING<br/> <input type="checkbox"/> PUBLIC WATER SUPPLY WELL<br/> <input type="checkbox"/> TEST, OBSERVATION, MONITORING<br/> <input type="checkbox"/> OPEN LOOP GEOTHERMAL<br/> <input checked="" type="checkbox"/> CLOSED LOOP GEOTHERMAL         </div> </div>                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL</b><br><div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Howard</div> <div style="font-size: 10px; text-align: center;">COUNTY NAME COUNTY NO.</div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">[Signature]</div> <div style="font-size: 10px; text-align: center;">STATE SIGNATURE INSERT S 41</div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">10/12/17</div> <div style="font-size: 10px; text-align: center;">DATE ISSUED CO SIGNATURE EXP. DATE</div> <div style="font-size: 10px; text-align: center;">43 MM DO YY 48</div>                                                                |                                                                                                                                                                                                 |
| APPROXIMATE DEPTH OF WELL <u>320</u> FEET<br><div style="font-size: 10px; text-align: center;">24 28</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | APPROXIMATE DIAMETER OF WELL <u>6</u> INCH<br><div style="font-size: 10px; text-align: center;">NEAREST INCH</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                 |
| <b>METHOD OF DRILLING (circle one)</b><br><div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> BORED (or Augered)<br/> <input type="checkbox"/> AIR-ROTARY<br/> <input type="checkbox"/> CABLE<br/> <input type="checkbox"/> other         </div> <div> <input type="checkbox"/> JETTED<br/> <input type="checkbox"/> AIR-PERCUSION<br/> <input type="checkbox"/> REVERSE-ROTARY         </div> <div> <input type="checkbox"/> Jetted &amp; DRIVEN<br/> <input type="checkbox"/> ROTARY (Hydraulic Rotary)<br/> <input type="checkbox"/> Drive-POINT         </div> </div>                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                 |
| <b>REPLACEMENT OR DEEPEENED WELLS (CIRCLE APPROPRIATE BOX)</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL<br/> <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED<br/> <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS<br/> <input type="checkbox"/> THIS WELL WILL DEEPEEN AN EXISTING WELL         </div> </div> PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEENED (IF AVAILABLE) 41 _____ 52 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                 |
| <b>Not to be filled in by driller (MDE OR COUNTY USE ONLY)</b><br>APPROP. PERMIT NUMBER _____ G _____<br>PERMIT No. <u>40-17-0180</u><br><div style="font-size: 10px; text-align: center;">70 71 72 73 74 75 76 77 78 79</div>                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                 |
| <b>SPECIAL CONDITIONS</b><br>NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                 |

40-17-0180

9732 Riverside Cir

## FILE INQUIRY NOTES

Geothermal well

| DATE       | RESULTS OF REVIEW FOR FILE                                                                                                                   |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 9/26/17    | [14:45] Phone Call w/ Darrell Smith HC plumbing-Mech. Inspector                                                                              |
|            | → Called Contractor Roto Rooter (Rose)                                                                                                       |
|            | [15:15]                                                                                                                                      |
|            | Sewer line repaired } House → County connection.                                                                                             |
|            | Contractor will call back w/ PVC Joint Spec (Solvent welded)                                                                                 |
|            | ↳ 15:30 (Rose) confirmed PVC is Solvent welded.                                                                                              |
| 10/03/17   | Glued a new stand pipe                                                                                                                       |
| 10/11/2017 | Darrell Smith called.                                                                                                                        |
|            | Reported metal shear bands on Fernco couplings at house connection and <del>public</del> property line connection for the sewer line repair. |
|            | Met w/ John Boris w/ MDE. Approved well locations. Not a Variance. See Email.                                                                |
| 11/6/2018  | Called Chris. No Diff in Soil profiled. Per approval at completion Report.                                                                   |

10/16/17 (16)

1-1/4" IPS Oil Creek Aqua-Jet (O.D.)

PE 4710 ASTM D3035 NST-PW

DR-11 200 PSI @ 73°F C3 121

Titusville P.A. 01-11-17 02 LRP M-3

Geo-Thermal

9" drill bit

10/11/2017

Dannell Smith

8:45

Cast iron

Fence w/  
w-metal shear band

New clear out

by property line clo

cast iron

Fence w/  
shear bands



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

110-17-0180

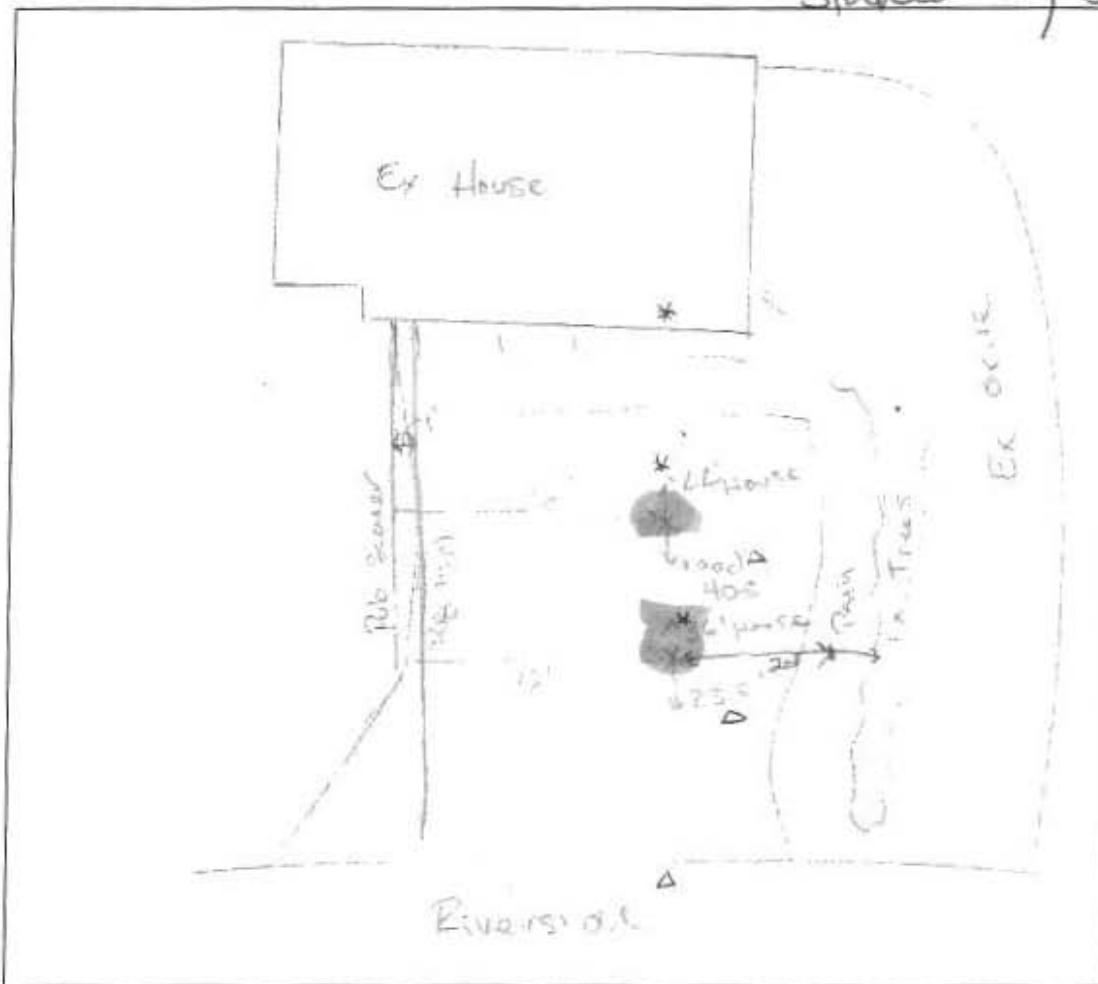
FOR INFORMATION GIVE NUMBER AND WRITE  
1600 WASHINGTON BLVD  
BALTIMORE MARYLAND 21230

SITE INSPECTION

OWNER: Ogg, Kevin  
ADDRESS: 9732 Riverside Cr  
Ellicott City MD 21042  
SUBDIVISION: N/A LOT: 13 COUNTY: CALW  
PROPOSAL: Geothermal well

LOCATION DIAGRAM

Approved 10/12/17 JD  
Staked by Chesapeake  
Geo

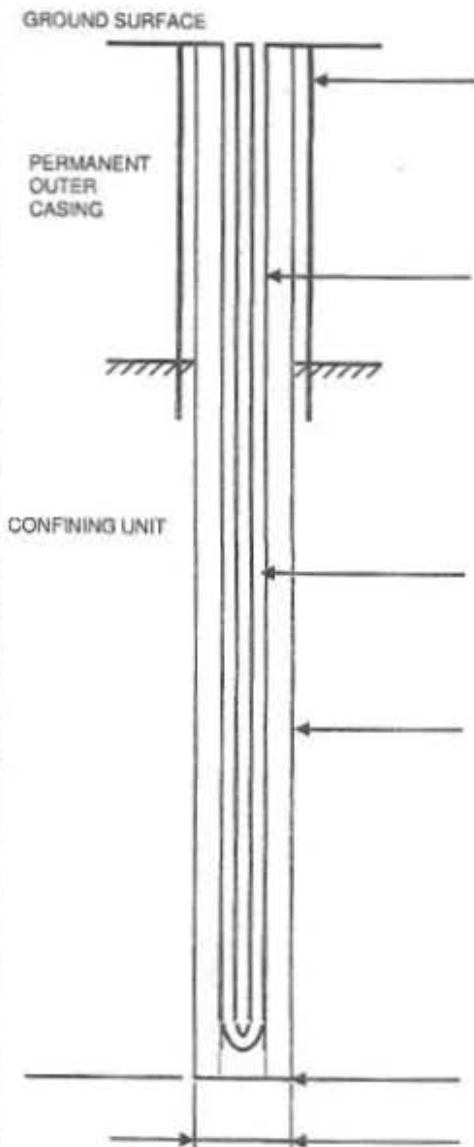


COMMENTS: Call for Reinspection. Spray mark the  
public water/sewer lines. Gather Base way  
Setback. Confirm construction of gravity sewer line. JD

DATE: 09/15/2017

INSPECTOR: [Signature]

# WELL SCHEMATIC FORM



The diagram shows a cross-section of a well. At the top is the 'GROUND SURFACE'. Below it is the 'PERMANENT OUTER CASING'. Further down is the 'CONFINING UNIT', indicated by a hatched pattern. Inside the casing are several 'TUBE CASING' lines. At the bottom is the 'LOOP PIPE CASING'. Arrows point from the text labels to the corresponding parts of the diagram.

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 325'

GROUT

MATERIAL Bentonite - Thermex

PERMEABILITY \_\_\_\_\_

WATER / GROUT RATIO \_\_\_\_\_

PERCENT SOLIDS \_\_\_\_\_

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 9732 Riverside  
circle, Ellicott City  
Md 21042

LOT NUMBER: 13

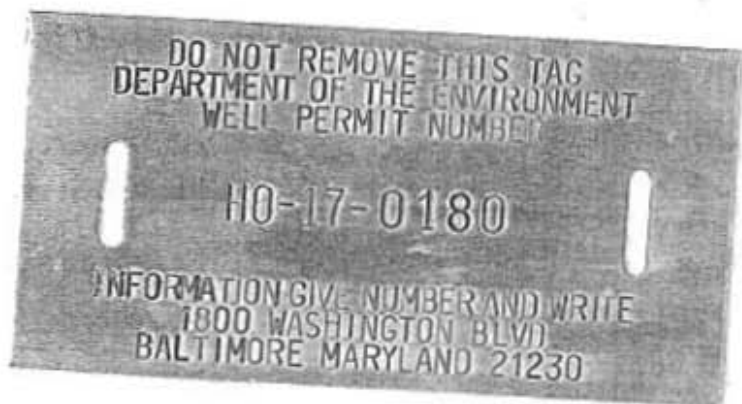
SQUARE NUMBER: Gwynn Acres

WELL OWNER: Kevin Ogg

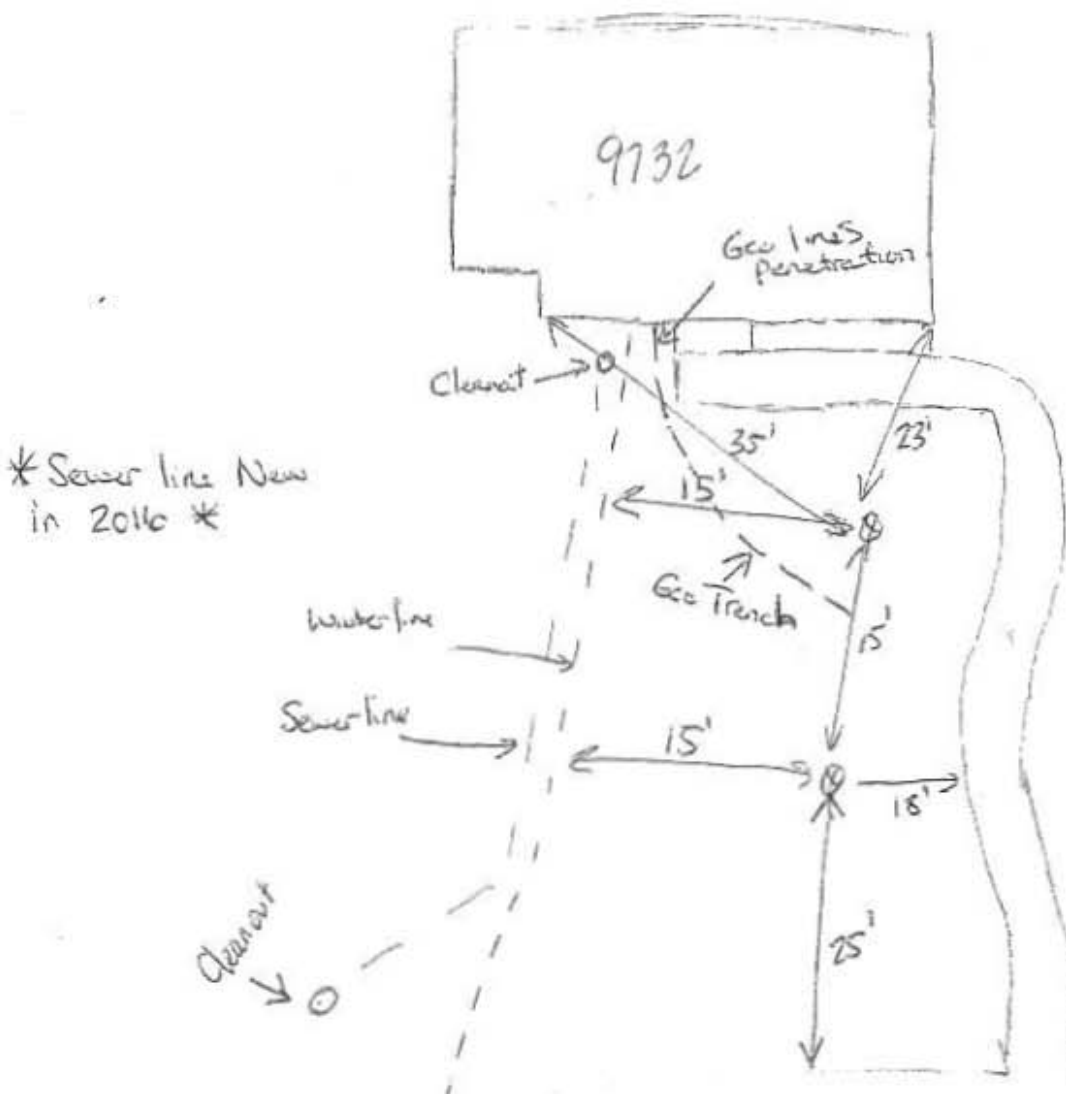
OWNER ADDRESS: 9732 Riverside  
circle, Ellicott  
City Md 21042

Staked by Chesapeake Geo.  
Approved

Kevin Ogg Residence  
9732 Riverside Circle  
Ellicott City Md 21042

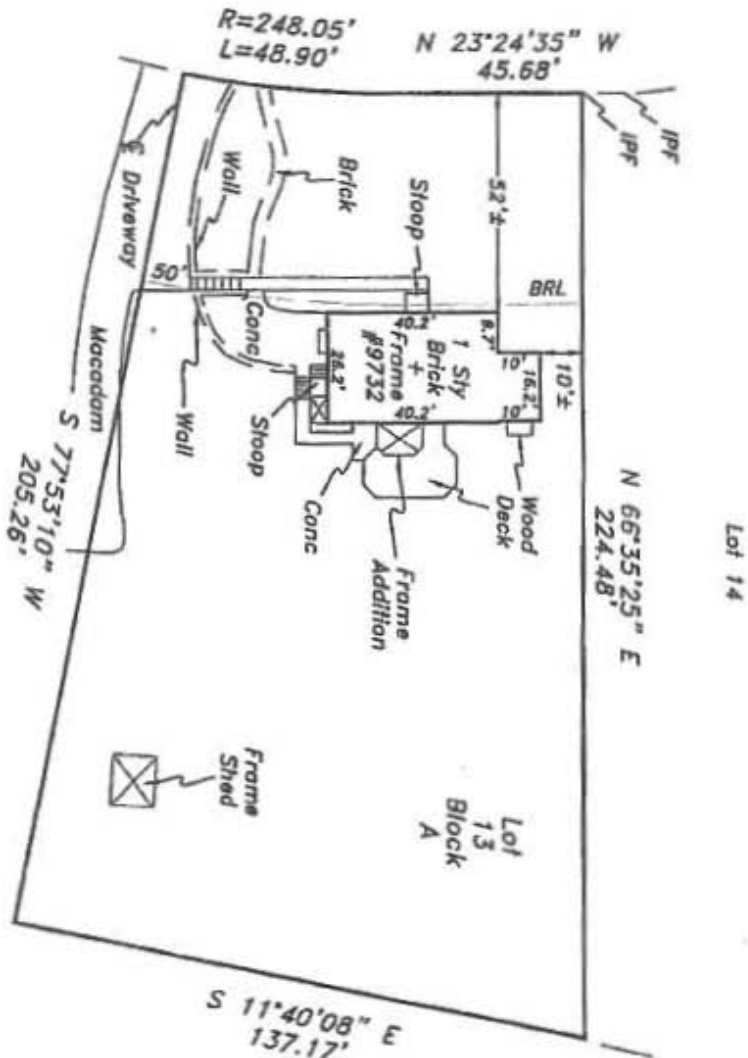


2 wells @ 320' w/ 1.25"  
Closed Loop Geothermal  
w/ factory U-Bend



Riverside Circle

# Riverside Circle



**Lakeside**

PREPARED FOR:

The purpose of this drawing is to locate, describe, and represent the positions of buildings and substantial improvements affecting the property shown hereon, being known as:  
 Lot 13, Block A, Section One,  
 GWYNN ACRES  
 recorded among the land records of Howard County, Maryland in  
 Plat Book 9  
 Plat 2

This is page one of a two page document. The advice found on the affixed page is an integral part of this drawing, and is not valid without all pages.



James Carl Hudgins  
 Property Line Surveyor #96  
 Expiration Date: 3/11/16

NTT Associates, Inc.  
 16205 Old Frederick Rd.  
 Mt. Airy, Maryland 21771  
 Phone: (410) 442-2031  
 Fax: (410) 442-1315  
 www.nttsurveyors.com

**LOCATION DRAWING**  
 9732 Riverside Circle  
 2nd ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

Scale: 1" = 40'  
 Date: 4-1-15  
 Field By: DR  
 Drawn By: DR  
 File No.: LWD18790  
 Page No.: 1 of 2

*Carl Hudgins*

*Atty Mary Q. Ogil*



## Cabahug, Joseph

---

**From:** John Boris -MDE- <[john.boris@maryland.gov](mailto:john.boris@maryland.gov)>  
**Sent:** Wednesday, October 11, 2017 4:32 PM  
**To:** Cabahug, Joseph  
**Subject:** Re: Geothermal Well Permit - 9732 Riverside Cir

Joseph,  
It's approved but it's not a variance if it meets construction criteria. We just honor the 10'.

Please let me know if you have any further questions.  
John

Sent from my iPhone

On Oct 11, 2017, at 4:17 PM, Cabahug, Joseph <[jcabahug@howardcountymd.gov](mailto:jcabahug@howardcountymd.gov)> wrote:

Hi John,

Please confirm that the two fernco couplings with a metal sheer band that couple the cast iron and PVC joints is sufficient to approve the 10' variance setback of a geothermal well to a sewer line pursuant to COMAR 26.04.04.04.B(4)(d) as discussed on 10/11/2017.

The sewer line was repaired between the house and the county connection. The sewer line is solvent welded Sch 40 PVC. There are two fernco couplings that serve the PVC – Cast iron joints at the House connection and at the property line connection. The Howard County Plumbing inspectors report metal sheer bands on both fernco couplings.

Much appreciated,

Joseph C. Cabahug  
Environmental Health Specialist  
Well & Septic Program  
Bureau of Environmental Health  
8930 Stanford Blvd.  
Columbia, MD 21045  
(o) 410-313-2643  
(f) 410-313-2648  
<[image001.png](#)>  
<[image002.jpg](#)> <[image003.jpg](#)>  
[jcabahug@howardcountymd.gov](mailto:jcabahug@howardcountymd.gov)

### CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

[Click here](#) to complete a three question customer experience survey.



# HOWARD COUNTY HEALTH DEPARTMENT

61523

DATE

9/14/17

W5

Received  
From

PHONE #

For

☐ CASH

☐ CHECK

NO.

3886

\$

1100

Received By

Dollars