



HOWARD COUNTY HEALTH DEPARTMENT

72903

DATE 12/28/20

W5

Received From

Anne Sigman

PHONE #

For

Well Permit / Isle of Skye Dr.

CASH

CHECK

NO.

428

One hundred sixty

Dollars

\$

160.00

Received By

King



FIELD DATA SHEET  
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 20-0064  
 Location of property (road) 6636 Lake of Skye Dr  
 Subdivision Highland Lake Lot 16 Block \_\_\_\_\_ Plat \_\_\_\_\_ Sec. \_\_\_\_\_  
 Well Driller Maryn West Dooling Owner Anne Sigman

Depth of well 440'  
 Distance of measuring point (M.P.) above ground 1  
 Static water level (S.W.L.) below H.P. 31

I. High rate pumping -- reservoir drawdown

Time pump started 8:15 Pumping rate 20  
 Total time 4:45 to reach pumping water level 249 ft. below H.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below H.P.	PUMPING RATE time to fill 5 gallon bucket	FLOW METER READING (if used)	CALCULATED (gallons per minute)
8:15	31	3 sec.		20
8:30	131	3 sec.		20
8:45	254	3 sec.		20
9:00	250	22 sec.		2.7
9:15	249	22 sec.		2.7
9:30	249	22 sec.		2.7
9:45	249	22 sec.		2.7
10:00	249	22 sec.		2.7
10:15	249	22 sec.		2.7
10:30	249	22 sec.		2.7
10:45	249	22 sec.		2.7
11:00	249	22 sec.		2.7
11:15	249	22 sec.		2.7
11:30	249	22 sec.		2.7
11:45	249	22 sec.		2.7
12:00	249	22 sec.		2.7
12:15	249	22 sec.		2.7
12:30	249	22 sec.		2.7
12:45	249	22 sec.		2.7
1:00	249	22 sec.		2.7
1:15	249	22 sec.		2.7
1:30	249	22 sec.		2.7
1:45	248	22 sec.		2.7
2:00	248	22 sec.		2.7



TAG = 01/15/2021  
STATE PERMIT NUMBER  
HU-20-0064  
fill in this form completely

B-1 61272 SEQUENCE NO. (MDE USE ONLY)  
STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL  
please type

1 2 3 6  
Date Received (APA)  
8 MM DD YY 13  
OWNER INFORMATION  
15 Last Name Owner First Name 34  
36 Street or RFD 55  
57 Town 70 State 72 Zip 76  
Koman  
Owner  
6636 State of Shige Dr.  
Highland MD 20777

B 3 LOCATION OF WELL  
8 COUNTY 21  
23 SUBDIVISION 42  
SECTION 44 46 LOT 48 50  
52 NEAREST TOWN 71  
Howard  
Highland Lake  
16  
Highland

DRILLER INFORMATION  
76 Driller's Name 81 License No.  
Firm Name  
Address  
Signature Date  
Larry Mayer M5D027  
Larry Mayer Well Drilling  
5512 Ridge Rd. Mt. Airy MD 21777  
Larry Mayer 12-22-20

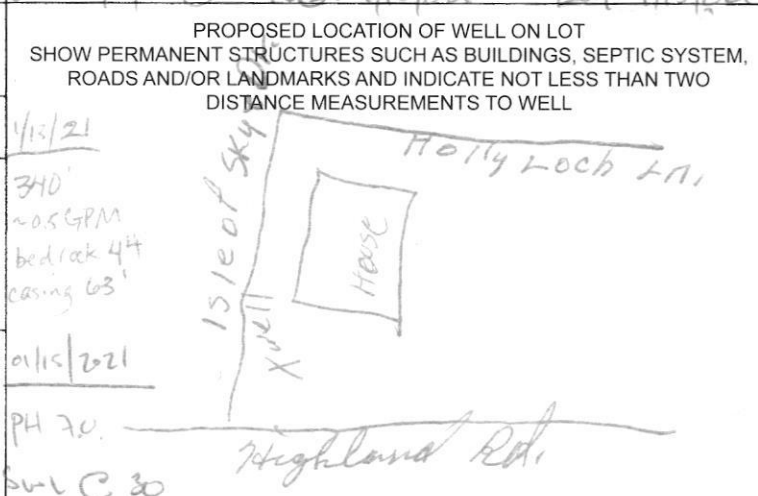
B 4 SOURCES OF DRILLING WATER  
11 STREET ADDRESS 30  
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
34 37 DISTANCE FROM ROAD  
ENTER FT OR MI 38 39  
TAX MAP: BLK: PARCEL  
1. Well  
State of Shige Dr.  
NORTH  
WEST 32 EAST  
SOUTH  
234

B 2 WELL INFORMATION  
1 2 APPROX. PUMPING RATE (GAL. PER MIN.) 8 12  
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20  
5  
500

USE FOR WATER (CIRCLE APPROPRIATE BOX)  
22  
 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 COUNTY NO.  
STATE SIGNATURE INSERT S  
DATE ISSUED 41  
12/22/20 43 MM DD YY 48 CO SIGNATURE EXP. DATE  
Howard 13  
Dennis Thomas 12/22/21  
1/13/21 (SD) Doc: 1/15/2021 Day: 1/15/2021

APPROXIMATE DEPTH OF WELL 24 28 FEET  
APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH  
400  
6



METHOD OF DRILLING (circle one)  
30 BORED (or Augered) JETTED Jetted & DRIVEN  
AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)  
37 CABLE REVerse-ROTary DRive-POINT  
other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)  
39  
 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)  
APPROX. PERMIT NUMBER  
PERMIT No. 70 71 72 73 74 75 76 77 78 79  
G  
HU-20-0064

SPECIAL CONDITIONS RADIUM TESTING REQUIRED  
NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

\*\*\*\*\*  
 WATER WELL ABANDONMENT-SEALING REPORT FORM  
 \*\*\*\*\*

SUBMIT COPIES OF COMPLETED FORM TO:

- \* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- \* WELL OWNER
- \* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

Approved  
 10/13/21 (SD)

DATE WELL ABANDONED: 04-13-2021 (month/day/year)

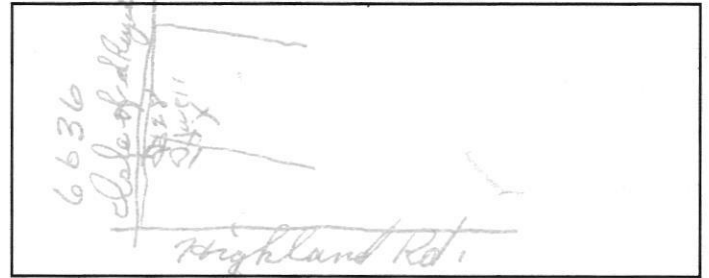
- \* PERMIT NUMBER OF ABANDONED WELL (if any)
- \* PERMIT NUMBER OF REPLACEMENT WELL:

HO - 73 - 3112  
HO - 20 - 0064

PERSON ABANDONING WELL: Harry Meyer WELL DRILLER'S LICENSE NUMBER: MSD-027  
 OWNER'S NAME: Anne Sigman CIRCLE: MWD / MSD / MGD

WELL LOCATION:  
 COUNTY: Hagerston  
 NEAREST TOWN: Highland  
 TAX MAP          BLOCK          PARCEL           
 SUBDIVISION: Highland Lake  
 SECTION:          LOT:           
 STREET ADDRESS: 6636 Circle of Kings Dr.

SITE LOCATION MAP



LATITUDE 3 9.18904  
 LONGITUDE 7 6.97618

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
<u>Cement and gravel</u>	<u>0</u>	<u>400</u>
VOLUME OF MATERIAL USED		
<u>5 yard gravel - 17 Bag cement</u>		

- \* TYPE OF WELL BEING ABANDONED:  
 DRILLED                       JETTED  
 BORED                           HAND DUG  
 OTHER (specify) \_\_\_\_\_
- \* USE CODE:  
 DOMESTIC                       MUNICIPAL/PUBLIC  
 IRRIGATION                       INDUSTRIAL  
 TEST/OBSERVATION               GEOTHERMAL
- \* TYPE OF CASING:  
 STEEL                               PLASTIC  
 CONCRETE                       OTHER (specify) \_\_\_\_\_

SIZE OF CASING: 6 INCHES IN DIAMETER  
 DEPTH OF WELL: 400 FEET DEEP  
 WAS ANY CASING REMOVED?  YES  NO  
 If yes, length removed, in feet:           
 WAS CASING RIPPED OR PERFORATED?  YES  NO

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.

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN Harry Meyer LICENSE# MSD 027 CIRCLE ONE MWD / MSD / MGS DATE \_\_\_\_\_

Maura J. Rossman, M.D., Health Officer

February 23, 2021

Ms. Anne Sigman  
6636 Isle of Skye  
Highland, Maryland 20777

**RE: Lot 16 Highland Lake**  
**6636 Isle of Skye**  
**Highland, Maryland 20777**  
**Replacement Well**  
**HO – 20 – 0064**

Dear Ms. Sigman:

A sample was collected during yield testing on January 15, 2021 and submitted to the Maryland Department of Health Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of  $12.0 \pm 2.8$  picocuries/liter (pCi/L), while the **Gross Beta** level was  $20.2 \pm 2.6$  pCi/L. With the Margin of Error, the **Gross Alpha** result was just at its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below (though somewhat higher than typically seen) its targeted standard of 50 pCi/L (roughly equivalent to the **annual dose rate of 4 millirems/year**). Confirmation analyses were both similar to the initial results.

At the time of testing and with respect to these parameters, your “untreated” replacement well water supply **may not meet** EPA regulatory standards. Given these initial readings, some additional testing to further evaluate long-term **Gross Alpha, Gross Beta** and **Radium 226/228** is recommended. Treatment – either a softener system or a point of use reverse osmosis (R/O) have been shown to be effective in reducing levels of these contaminants. If you have existing treatment, have that serviced. If you don’t have any existing treatment, consider having one installed. Then, pre and post - treatment levels for long-term **Gross Alpha, Gross Beta** and **Radium 226/228** should be collected to ensure that the treatment is effective.

A copy of the test results is enclosed for your information. Please call this office at **410-313-1773** if you have any further questions or to schedule additional testing.

Sincerely,



Bert Nixon, Director  
Bureau of Environmental Health

✓ Enclosure  
cc: Property file





Maura J. Rossman, M.D., Health Officer

## MEMORANDUM

September 24th, 2021

Anne Sigman  
6636 Isle of Skye Drive  
Highland, MD 20777

RE: **Well Sampling**  
6636 Isle of Skye Drive  
Highland, MD 20777  
Well Permit # HO-20-0064

Dear Anne Sigman:

According to our records, your replacement well has been connected to the dwelling and was not tested for potability. The Health Department was not notified of the well line installation and was not able to inspect the pitless adapter or well line. We request that you contact the Community Hygiene Program at (410) 313-1773 to schedule initial water sampling for the above referenced well, as required by the Maryland Well Construction Regulation (COMAR 26.04.04). This sampling includes testing for bacteria, nitrates, turbidity, and sand. There is currently **no charge** for the sampling and it is to your benefit to have it tested.

Additionally, your initial radium test results indicated that the well **may not** meet EPA regulatory standards on radioactivity, as relayed to you in a letter on February 23, 2021, from Bert Nixon, Director of the Bureau of Environmental Health. We advise collecting **Gross Alpha**, **Gross Beta** and **Radium 226/228** samples.

Finally, as your well is located relatively close to a road, it is advisable to collect samples for road salt contaminants. This sampling includes testing for sodium, chlorides, and total dissolved solids.

It is preferred that the sample be collected from the primary indoor drinking tap, but if suitable scheduling is not possible, the sample may be taken from an outside tap to complete your sampling obligation. However, the potential for unsuccessful sample results increases when samples are collected from taps exposed to the outside environment.

**If sampling has already been performed by an outside lab, please help us by forwarding the results of the samples to our office.** If you have any further questions, you can call me at 410-313-6287. Otherwise, call Community Hygiene at 410-313-1773 to schedule or arrange for them to collect the subsequent water samples.

---

Maura J. Rossman, M.D., Health Officer

Sincerely,



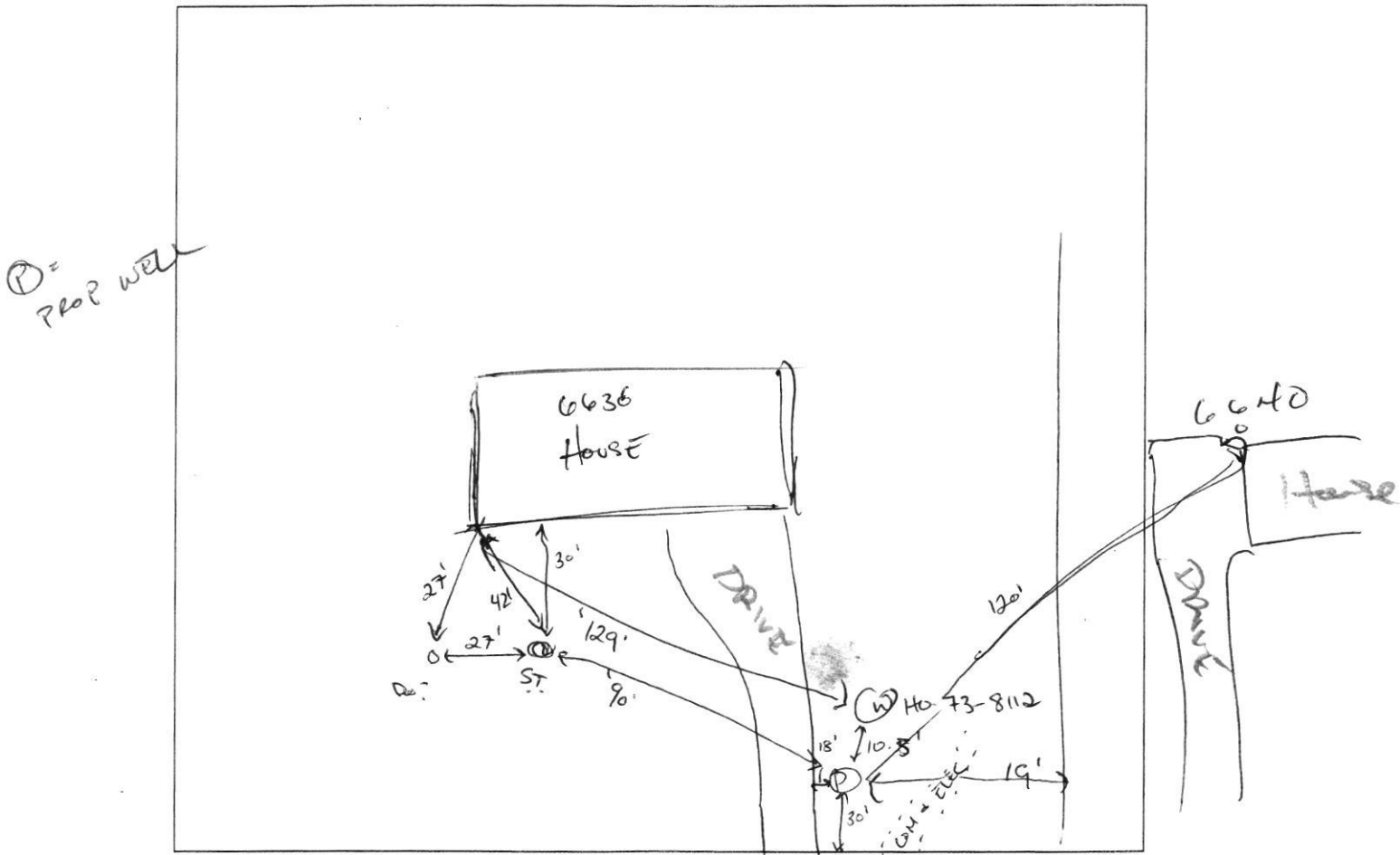
Susan Thomas – REHS/RS LEHS II  
Environmental Health Specialist  
Howard County Health Department  
Well and Septic Program

Cc: Community Hygiene Program  
✓ File

SITE INSPECTION SHEET

OWNER: SCOTT FISHER PHONE #: 240 586 9885  
ADDRESS: 6636 ISLE OF SKY CONTRACTOR: J. MAYNE  
WELL TAG #: \_\_\_\_\_  
SUBDIVISION: \_\_\_\_\_ LOT: \_\_\_\_\_ COUNTY #: (XIT)  
PROPOSAL: DRILL NEW WELL

LOCATION DIAGRAM



COMMENTS: SETBACKS CONFIRM; 90' TO SEPTIC TANK ON  
PROP. DR. W/OUT LEVEL IS LOW.

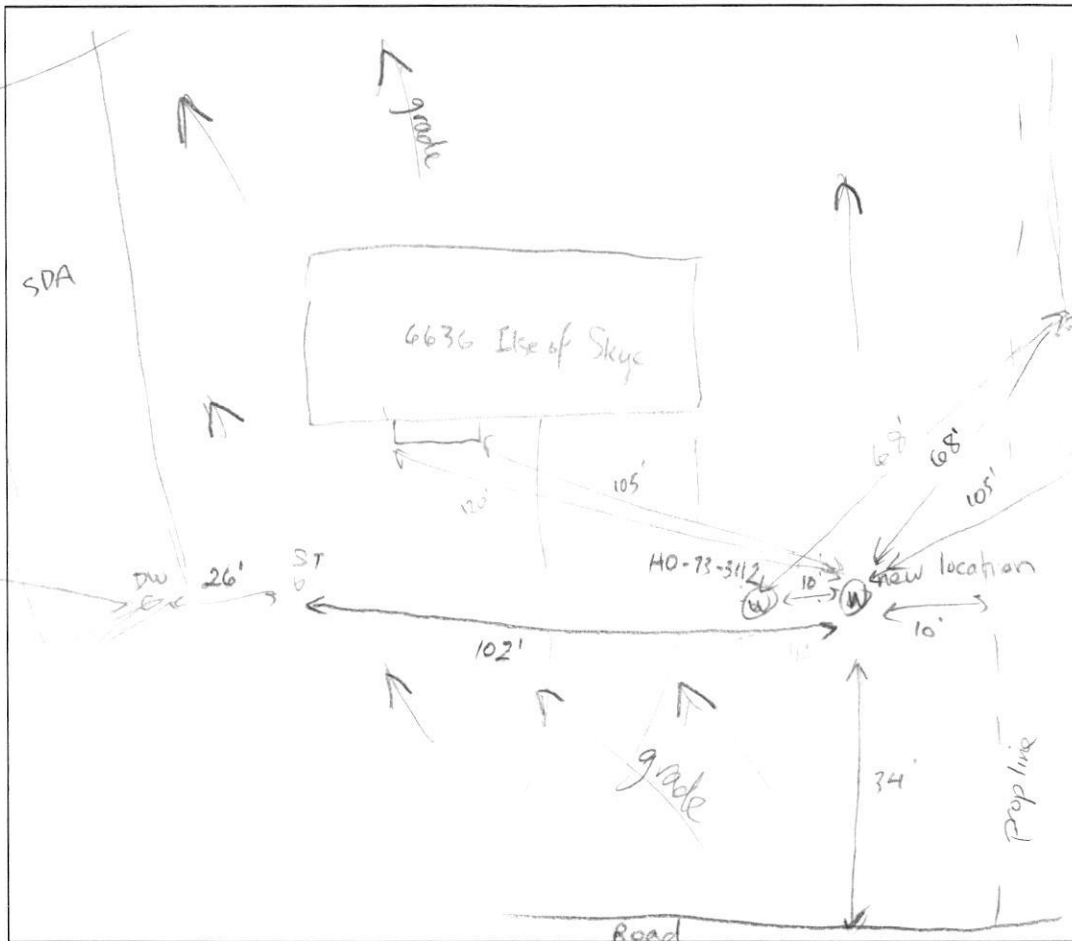
DATE: 01/11/2021

INSPECTOR: [Signature]  
001997

**SITE INSPECTION SHEET**

OWNER: Anne Sigman PHONE #: \_\_\_\_\_  
ADDRESS: 6636 Isle of Skye Dr CONTRACTOR: Joseph L. Mayne  
Highland, MD 20777 WELL TAG #: HO-20-0064  
SUBDIVISION: \_\_\_\_\_ LOT: 16 COUNTY #: Howard  
PROPOSAL: current well is failing - emergency replacement well

**LOCATION DIAGRAM**



COMMENTS: Current well is 68' from neighbor's SDA and 92' from septic tank cleanout. Well is located on Knoll, the rest of the property is downgrade. Proposed new location is 68' from neighbor's SDA and 102' from ST. Neighbor at 6632 was not home but decorative rock in front yard presumably covers well. SDA extends behind house - 200' from SDA is near property

DATE: 12/22/2020 INSPECTOR: Susan Thomas

line in back.

# FILE INQUIRY NOTES

6636 ISLE OF SKYE WAY

DATE	RESULTS OF REVIEW FOR FILE
10/27/2021	<p>CALLED RE IRON, LOW YIELD WELL. LEFT MESSAGE</p> <p>443 745 6917 ANN SIGMAN <i>(initials)</i></p>
	CHRISTOPHER SIG
10/27/2021	<p>OWNER CALLED: REPORTS: 443 745 0211</p> <p>WLL COMPANY: POTOMAC MECHANICAL <i>(initials)</i> 646 580 7865</p> <p style="margin-left: 40px;">↳ (240) 620 3562</p> <p>WELL WAS OK FOR ~ 6 MO. THEN SAW</p> <p>DISCOLORATION AND SEDIMENT. HOUSE HAS</p> <p>CALCITE IN A TANK. REPORTS WELL IN USE</p> <p>FEB - AUG.</p>
	BRIANNA
	<p>ANNE ASIGMAN@gmail.com</p> <p>BRIANNA BRIANALINEA@gmail.com <i>(initials)</i></p>
10/27/2021	<p>SPOKE WITH BRIANNA, CONFIRMED WATER TEST RESULTS</p> <p>COLLECTED; REC PRE/POST FE + Mn IF TURBIDITY</p> <p>COMPS BACK ELEVATED. <i>(initials)</i></p>

File Inquiry Notes  
6636 Isle of Skye Drive  
Emergency Replacement Well

1/8/2021, 3:30pm

Received a complaint from the neighbor at 6640 Isle of Skye Drive that the well stake is too close to his property. The neighbor had a surveyor stake the property line and the chosen well location is 6' away.

To remedy this problem, Mr. Mayne suggested moving the replacement well location closer to the driveway and the road. This suggestion was approved, given that the owner understands that the new well location might encroach <100' from her septic tank. The owner is aware and approves, according to Mr. Mayne.

Mr. Mayne plans to pick a new location on Monday morning and relay the measurements to Susan Thomas before he begins to drill. If the new location is within 100' of the septic tank, there will be a requirement for 50' of steel casing or 10' into bedrock, whichever is deeper.

Additionally, there is a utility easement beside the road that extends for 15'. The new location must be sure to be at least 15' off the road on fully on the 6636 property. It is also likely that the new well location will be <10' from the driveway, which will require bollards.

If possible, an inspection of the septic tank is recommended to see if there is any evidence of leaking.

ST

1/8/2021

Kevin checked with Jeff about issue. Jeff would like a written confirmation from the owner that they understand the well be within 100' of septic tank. Owner can send by email. Susan will email the Maynes to get this written confirmation.

Additionally, Jeff was fine with the well being right up against the driveway, if there is some kind of rock or bollards to protect it. Owner must understand this as well.

Jeff would like and inspection of both the septic tank and drywell to ascertain their status.

ST

1/12/2021

Measured the water level of the septic tank: 9' from grade. Water level of drywell: 7' from grade

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