

C 1 60092 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE

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

COUNTY NUMBER

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

ST/CO USE ONLY DATE RECEIVED MM DD YY 08 20 21

DATE WELL COMPLETED MM DD YY 7-20-21 Approved 11/21/21 Depth of Well 240 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-20-0117

OWNER Ogata, Michiko last name first name WELL SITE ADDRESS 13730 Briaridge Ct TOWN Highland, MD SUBDIVISION Briaridge SECTION LOT 2

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. Entries: Bin May (0-45), Gray Rock (45-240).

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 22 NO. OF POUNDS 550 GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot) from 48 TOP 52 ft. to 54 BOTTOM 58 ft.

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

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 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 (describe below) 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) 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 50 51

LATITUDE 39.17162 LONGITUDE 76.96698 (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.

NUMBER OF UNSUCCESSFUL WELLS:

WELL HYDROFRACTURED (Y) (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 D 237

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)

B 1 75066

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

40 - 20 - 0117

please type

fill in this form completely

OWNER INFORMATION: Date Received (APA) 06/29/12, Last Name Ogata, Owner Michiko, First Name, Street or BFD 13730 Briaridge Ct, Town Highland, State MD, Zip 20777

LOCATION OF WELL: COUNTY Howard, SUBDIVISION Briaridge, SECTION 44, 46, LOT 48, 50, NEAREST TOWN Highland

DRILLER INFORMATION: Driller's Name Brett Sweeney, License No. MS D237, Firm Name Allied Well Drilling, Address PO Box 129 Annapolis Junction MD 20701, Signature, Date 06/29/12

SOURCES OF DRILLING WATER: 1. Public, STREET ADDRESS 13730 NE Briaridge Ct, ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH, WEST, SOUTH, EAST, DISTANCE FROM ROAD, TAX MAP 0040, BLK, PARCEL 0312

WELL INFORMATION: APPROX. PUMPING RATE (GAL. PER MIN.) 8, 12, AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14, 20

USE FOR WATER (CIRCLE APPROPRIATE BOX): D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION, F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION), I INDUSTRIAL, COMMERCIAL, DEWATERING, P PUBLIC WATER SUPPLY WELL, T TEST, OBSERVATION, MONITORING, O OPEN LOOP GEOTHERMAL, C CLOSED LOOP GEOTHERMAL 2 Loops

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL: COUNTY NAME Howard, COUNTY NO. 13, STATE SIGNATURE, DATE ISSUED 07/06/12, CO SIGNATURE, EXP. DATE 07/06/22

APPROXIMATE DEPTH OF WELL 240 FEET

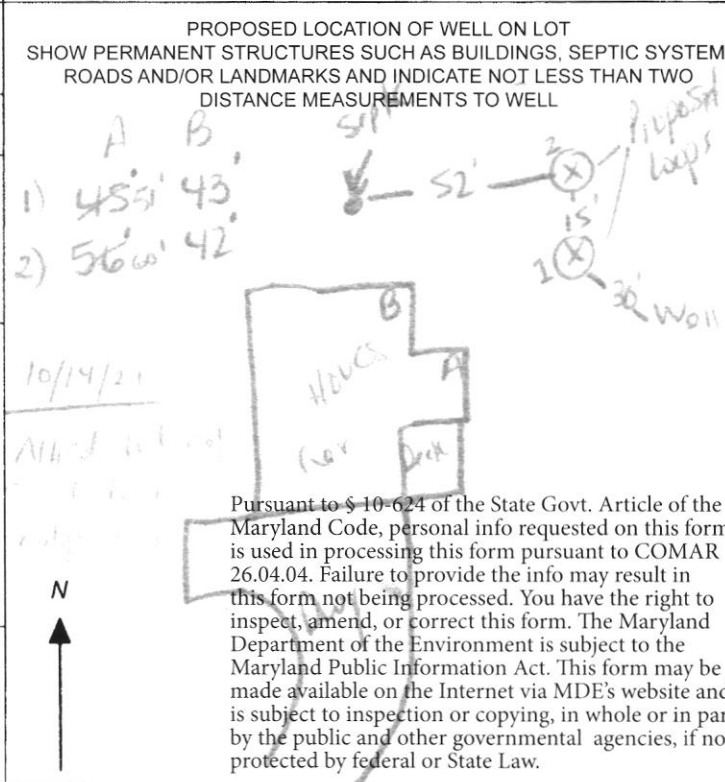
APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one): BORED (or Augered) AIR-ROTary, AIR-PERCussion, ROTARY (Hydraulic Rotary), JETTED, Drive-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX): N THIS WELL WILL NOT REPLACE AN EXISTING WELL, Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED, S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS, D THIS WELL WILL DEEPEN AN EXISTING WELL, PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41

Not to be filled in by driller (MDE OR COUNTY USE ONLY): APPROP. PERMIT NUMBER, PERMIT No. 40 - 20 - 0117

SPECIAL CONDITIONS



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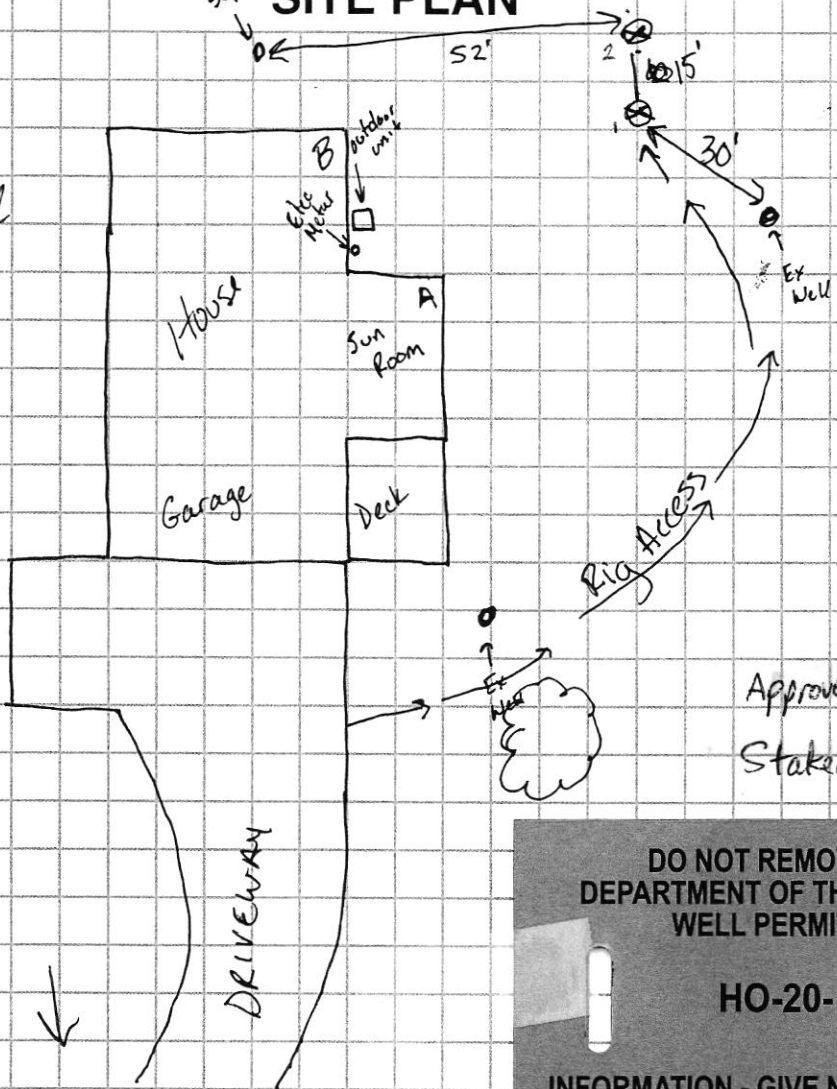


13730 Briaridge Ct  
Highland MD 20777

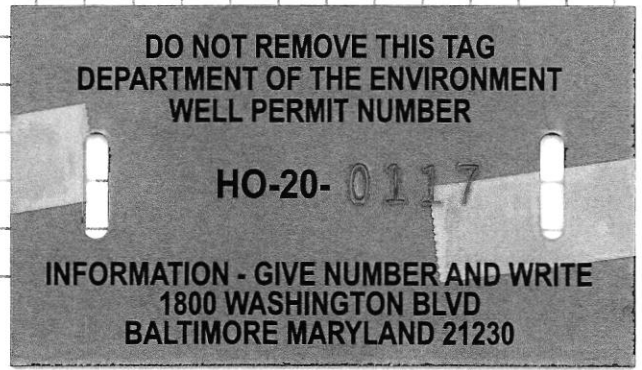
**SITE PLAN**

A B  
1 45' 51" 43' 45"  
2 56' 60" 42' 45"

2 @ 240'  
1.25" closed  
loop geothermal



Approved 7/6/21 (SI)  
Staked by driller



Sediment Control Protocol: SILT FENCE

Distance From House: 42'  
From Septic: 52'  
From Sewer: 52'  
From Property Line: 28'  
From Street: 300'

Trees Nearby: YES @ Access  
Utility Issues: YES MUST BE MARKED  
Mats Needed: YES IF WET. 100+' in grass  
Access For H/U: N/A  
Neighboring Tags: N/A

Comments: BACK IN FROM STREET

Person Completing Form: Wes Wolfe

## **HOWARD COUNTY GROUTING PROCEDURE**

Boreholes will be grouted from the bottom to the top via a tremie pipe and positive displacement pump. Bentonite grout, known as Quik-Grout will be used according to the manufacturer's specifications to achieve a consistency of at least 20% solids (24 gallons potable water/50 lb. sack of grout) and a permeability no more than  $2.5 \text{ E}(-08) \text{ cm/sec}$ . Grouting will be completed immediately after installing the geothermal loop and no later than twenty-four (24) hours after installing the geothermal loop. Open boreholes/annular space will be protected as necessary to prevent the entry of surface water or pollutants.

GRADE

EACH BORE HOLE (TYP.)

MINIMUM

HORIZONTAL BURY  
DEPTH 4 FT

FOR CONT.  
SEE PLANS

Horizontal  
PIPING

BORE DEPTH

TAPE

5 TO 10 FOOT SECTION OF  
REBAR TO GUIDE TUBE  
INTO BORE DURING  
INSTALLATION

ANCHOR FITTING TO  
PREVENT U-TUBE FROM  
SURFACING AFTER  
INSTALLATION

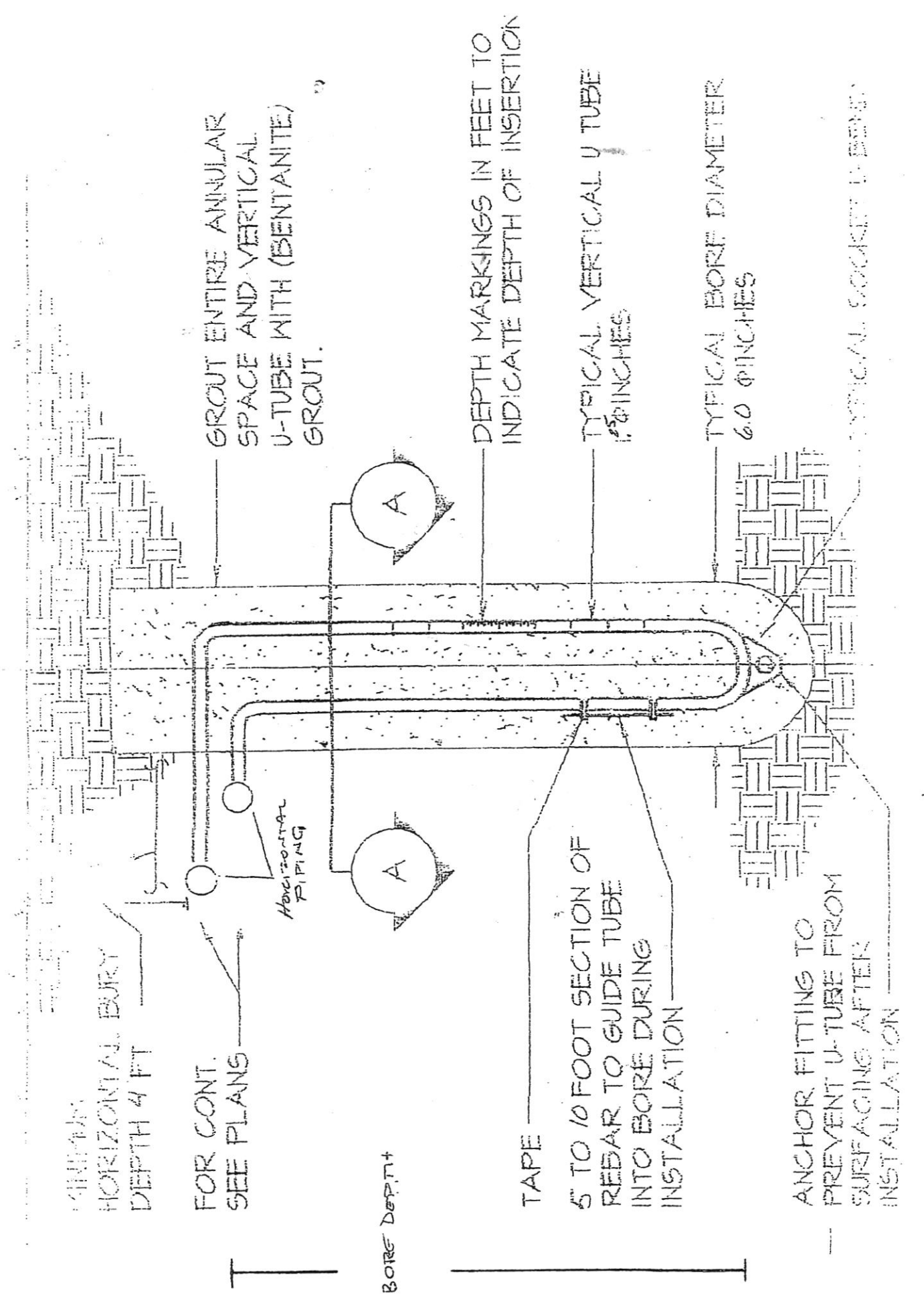
GROUT ENTIRE ANNULAR  
SPACE AND VERTICAL  
U-TUBE WITH (BENTONITE)  
GROUT.

DEPTH MARKINGS IN FEET TO  
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE  
PINCHES

TYPICAL BORE DIAMETER  
6.0 PINCHES

TYPICAL SOCKET U-BEND




**MEMORANDUM**

TO: Brett Sweeney MSD 237  
Allied Well Drilling

FROM: Susan Thomas  
Licensed Environmental Health Specialist II  
Howard County Health Department  
Well & Septic Program

RE: No drilling notifications for wells at 7102 Deer Valley Rd and 13730 NE Briaridge Ct.

DATE: October 14, 2021 

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On May 11<sup>th</sup>, 2021 we issued a well permit for HO-20-0094 at 7102 Deer Valley Rd. No drilling notification was called in for this property. According to the completion report, the well was completed on May 17<sup>th</sup>, 2021. No yield test data was sent in for this property.

On July 6<sup>th</sup>, 2021 we issued a geothermal well permit for HO-20-0117 at 13730 NE Briaridge Ct. No drilling notification was called in for this property. According to the completion report, the well was completed on July 20<sup>th</sup>, 2021.

Please be advised that you must notify our office of drilling, grouting and yielding activities as set forth by **COMAR 24.04.04.14 A:**

- (1) The permittee shall notify the Approving Authority on the business day prior to commencing well drilling activities to allow the Approving Authority the opportunity to inspect.**
- (2) The Approving Authority may require that the permittee provide notice before commencing a yield test in Hydrogeologic Area 3.**
- (4) The Approving Authority may require that the permittee provide notification prior to commencing grouting activities to allow them the opportunity to inspect.**

Please be advised that you must notify our office of geothermal well drilling activities as set forth by **COMAR 24.04.04.14 B:**

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

(2) The permittee shall notify the Approving Authority one business day prior to commencing well drilling activities of geothermal wells.

Continued failure to notify this office of drilling activities will result in a Notice of Violation. We will not issue any well permits to Allied Well Drilling in Howard County until the yield test data for HO-20-0094 at 7102 Deer Valley is received.

We are now back into full operations following the COVID-19 pandemic. Please expect to call in all drilling activities by 9:00 AM day of.

✓ Cc: File