

C1 57576 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 13

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY DATE RECEIVED MM DD 11 28 23

DATE WELL COMPLETED 71 20 23

Depth of Well 22 320 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-20-0317

OWNER LLC Angle Grove WELL SITE ADDRESS 8325 Grove Angle Rd TOWN Jbrestown SUBDIVISION 2Ac. 8325 Grove Angle Rd 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 additional sheets if needed) FEET FROM TO check if water bearing. Silt, Sndy, Red-Brown 0' 6' Sand, Silty, Tan 6' 22' Cobbro, Mza Gray-Black 22' 320'

I installed 1.25" X 320" closed loop hd pipe U-bend

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED YES NO 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. MW 587 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. AWD 054

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

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) YES NO Y N TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 45 46 14 NO. OF POUNDS 45 74 100 GALLONS OF WATER 266 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 320 ft.

CASING RECORD casing types insert appropriate code below MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 38'

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

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

DEPTH (nearest ft.) HO 58' 320' 1 8 9 11 15 17 21 2 23 24 26 30 32 36 3 38 39 41 45 47 51 SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 58 60 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

PUMPING TEST HOURS PUMPED (nearest hour) NA PUMPING RATE (gal. per min.) NA METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING NA WHEN PUMPING NA 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 NA CAPACITY: GALLONS PER MINUTE (to nearest gallon) NA PUMP HORSE POWER NA PUMP COLUMN LENGTH (nearest ft.) NA CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE below (nearest foot) 5

LATITUDE 39.251684 LONGITUDE 76.802551 (DEFAULT COORD. WGS 84)

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C1 57577

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 13

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

ST/CO USE ONLY DATE RECEIVED MM 11 28 23

DATE WELL COMPLETED 11 20 23

Depth of Well 320 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-20-0517

OWNER LLC Angle Grove WELL SITE ADDRESS 8325 Grove Angle Rd TOWN Crestawn SUBDIVISION 2 Ac. 8325 Grove Angle Rd. SECTION LOT

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, FEET (FROM, TO), check if water bearing. Rows include: Silty, Sandy Red-Brown (0-6'), Silty, Sandy Tan (6-22'), Gabbro, mica Gray-Black (22'-320').

Installed 1.25" x 320" closed loop helicoil U-bend.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (C) (M) (B) (C) CEMENT BENTONITE CLAY NO. OF BAGS 14 NO. OF POUNDS 1400 GALLONS OF WATER 260 DEPTH OF GROUT SEAL 320

CASING RECORD

MAIN CASING TYPE PL Nominal diameter 6 Total depth 25

OTHER CASING (if used)

Table for other casing with columns for diameter and depth.

SCREEN RECORD

screen type or open hole (H) (O) (S) (T) (B) (R) (P) (L) (O) (T)

DEPTH (nearest ft.)

Table for depth with columns for slot size and diameter of screen.

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) NA PUMPING RATE (gal. per min.) NA METHOD USED TO MEASURE PUMPING RATE NA 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 J jet S submersible

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) NA PUMP HORSE POWER NA PUMP COLUMN LENGTH (nearest ft.) NA CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)

LATITUDE 39.231659 LONGITUDE 76.802530 (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.

NUMBER OF UNSUCCESSFUL WELLS: 0

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. AW 587 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. AW 054

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

B 1 78175
1 2 3 6

SEQUENCE NO.
(MDE USE ONLY)

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

315653 please type

HO - 20 - 0317
70 fill in this form completely 79

OWNER INFORMATION

Date Received (APA) 10/04/23
8 MM DD YY 13

15 Last Name LLC Angle Grove Owner First Name 34
Hall Hayshod Ln.

36 Street or RFD 55
Columbia Md 21043

57 Town 70 State 72 Zip 76

LOCATION OF WELL

B 3

8 COUNTY Howard 21
2 Ac 8325 Grove Angle Rd.

23 SUBDIVISION 42
Jonestown

SECTION 44 46 LOT 48 50

52 NEAREST TOWN 71

DRILLER INFORMATION

Driller's Name Stephen DeLoach MW D 587
76 License No. 81

Firm Name Cunnelly & Associates Inc.

Address 1513 Tilcoo Dr. Frederick, Md. 21704

Signature Stephen DeLoach Date 9-29-23

SOURCES OF DRILLING WATER

1. Public 8325 Grove Angle Rd.
11 STREET ADDRESS 30

2. Public

3. Public

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH
 WEST
 EAST
 SOUTH

34 310 37
DISTANCE FROM ROAD FT

ENTER FT OR MI 38 39

TAX MAP: 0031 BLK: _____ PARCEL: 0035

WELL INFORMATION

1 2

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)

22 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

Howard 13
COUNTY NAME COUNTY NO.

STATE SIGNATURE _____ INSERT S → 41

DATE ISSUED 10/14/2023 8:42 PM 10/14/2024
43 MM DD YY 48 CO SIGNATURE EXP. DATE

00N: 11/17/2023 00G: 11/20/2023

APPROXIMATE DEPTH OF WELL 320 FEET
24 28

APPROXIMATE DIAMETER OF WELL 6 INCH
NEAREST INCH

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

39 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

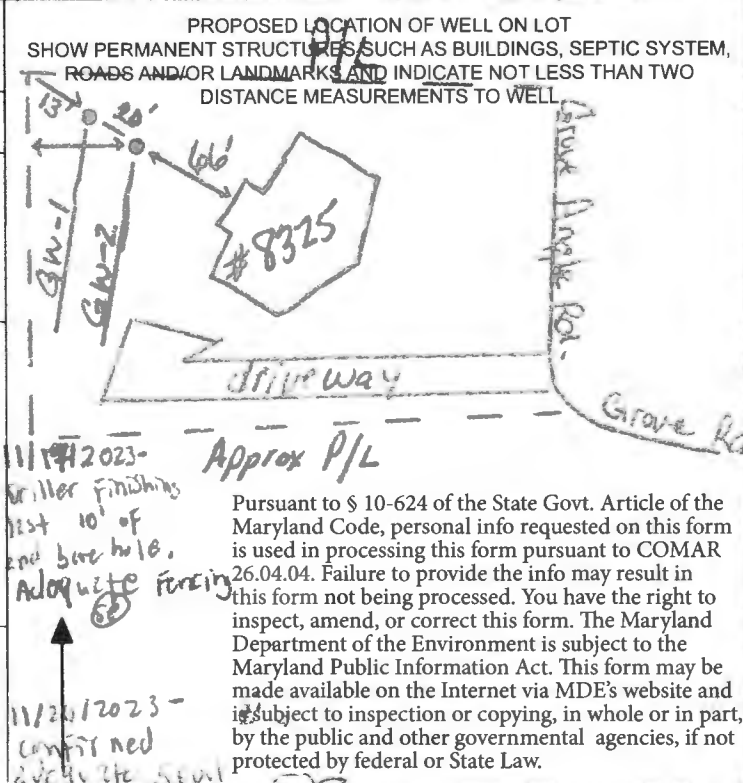
THIS WELL WILL DEEPEM AN EXISTING WELL

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 _____

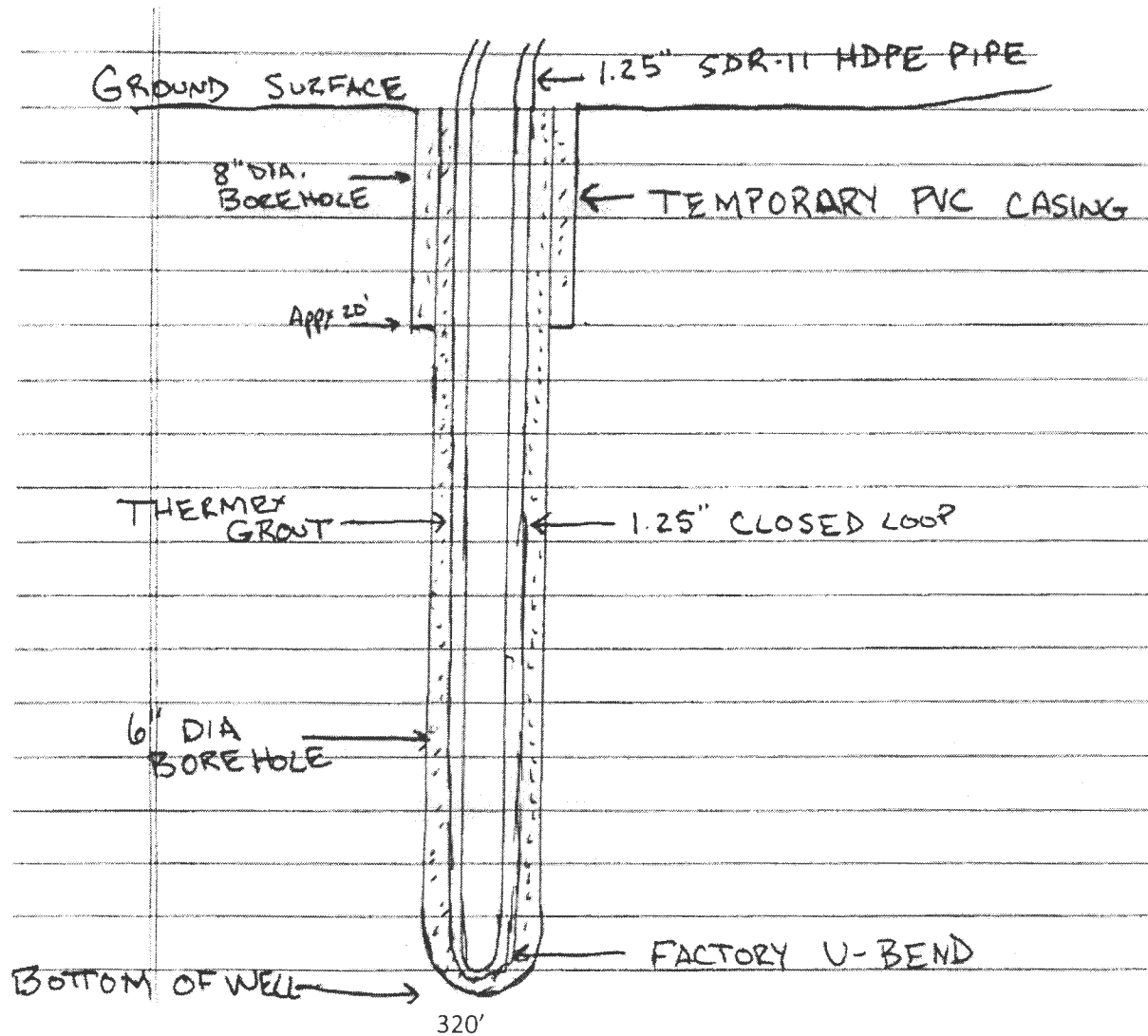
PERMIT No. HO - 20 - 0317
70 71 72 73 74 75 76 77 78 79



SPECIAL CONDITIONS Grant from bottom to top wind on site. (S)

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.

Mitchell Residence: 8325 Grove Angle Rd. Ellicott City, Md. Geothermal Closed Loop



Grout information for this property is as follows:

Well Grout DF grout mixture of 50 lb. grout to 19 gallons water, placed in the well using the tremie method, from bottom to top.

Comments
good condition - not native
good condition - not native
good condition - not native
good condition - not native
good condition
fair condition, limb dieback
fair condition, limb dieback
fair condition, limb dieback

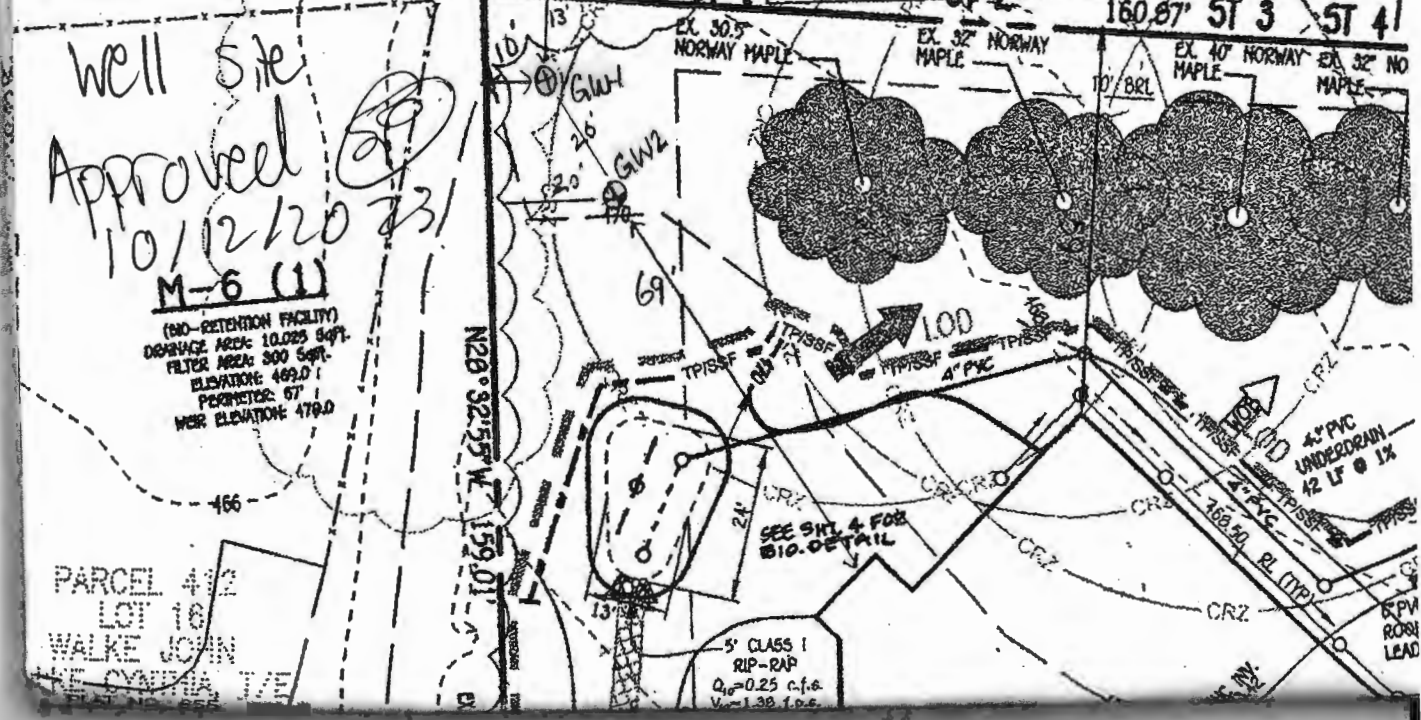
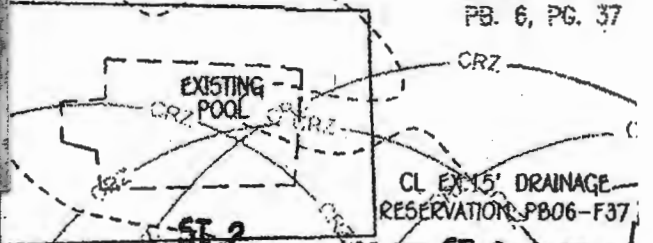
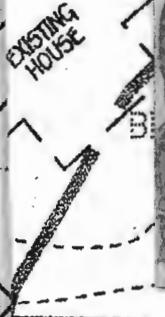
- See Sheet 1 - General Note 32

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

HO-20-0317

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

PARCEL 391
 LOT 4
 GOMEZ CARLO A
 GOMEZ DORCITA
 L00391 F.00087
 ZONED: R-20
 PB. 6, PG. 37



PARCEL 412
 LOT 16
 WALKER JOHN
 NE CALIFORNIA T/E

5' CLASS 1
 RIP-RAP
 Q₁=0.25 c.f.s.
 V=1.38 f.p.s.

4\"/>

RPM
 ROSS
 LEAD

Page, Shepsura

From: Page, Shepsura
Sent: Thursday, October 12, 2023 9:01 AM
To: Steve DeLosh
Cc: Wolf, Kevin
Subject: 8325 & 8340 Grove Angle Road- Well Permit Status

Good Morning,

I'm currently reviewing your geothermal permits for 8325 & 8340 Grove Angle Road. The well for 8340 was not staked upon inspection, it looks like the builder might have placed fill where you previously had your stakes. Please re-stake the well. The well for 8325 was staked, your plan has been approved and released. You should receive the permit soon.

Thanks,

Shepsura Page, EH Specialist
Well & Septic Program
Howard County Health Department
8930 Stanford Blvd.
Columbia, MD 21045
410-313-1789 (Office)
410-313-2648 (Fax)
www.hchealth.org
spage@howardcountymd.gov



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