C 1 | 65744 | SEQUENCE NO. (MDE USE ONLY)

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

STATE OF MARYLAND
WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY PLEASE TYPE #1

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

COUNTY NUMBER 13

ST/CO USE ONLY
DATE Received MM 01 DD 26 YY 22 (8–13)

DATE WELL COMPLETED MM 10 DD 22 YY 2021 (15–20)

Approved 1/28/22 ST

Depth of Well 320' (TO NEAREST FOOT) (22–26)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-20-0138 (28–37)

OWNER Porko (last name) Stephen (first name)

WELL SITE ADDRESS 6731 Cortina Drive TOWN Highland

SUBDIVISION Lot 15 1,002A, 6731 Cortina Dr. SECTION ____ LOT 15

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	FEET TO	check if water bearing
Si.H. brown, mica, dry trac fine Sand.	0'	45'	
Weathered Rock gray,	45'	60'	✓
Weathered Rock gray Wissahickon Formation Lower pelitic Schist.	60'	320'	✓
Installed 1.25" x 320' HDPE U-Bend loop			

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes [ ] no [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. M W D 587

Stephen DeFoe
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. A W D 063

Robert Mudge

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

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) yes [Y] (44) no [N] (44)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT [CM] (45 46) BENTONITE CLAY [BC] (45 46)

NO. OF BAGS 10 NO. OF POUNDS 50

GALLONS OF WATER 190

DEPTH OF GROUT SEAL (to nearest foot)

from 0' (48–52 TOP) ft. to 320' (54–58 BOTTOM) ft.

(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below

[ST] STEEL [CO] CONCRETE [PL] PLASTIC [OT] OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
PL (60–61)	6" (63–64)	60' (66–70)

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	to

SCREEN RECORD

screen type or open hole insert appropriate code below

[ST] STEEL [BR] BRASS BRONZE [HO] OPEN HOLE [PL] PLASTIC [OT] OTHER

C 2 (1–2)

DEPTH (nearest ft.)

EACH SCREEN			
1	HO (8–9)	60' (11–15)	320' (17–21)
2	(23–24)	(26–30)	(32–36)
3	(38–39)	(41–45)	(47–51)

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (56–60) (NEAREST INCH)

	from	to
GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68		(68)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (70) (E.R.O.S.) (72) W Q (74 75 76)

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3 (1–2)

PUMPING TEST

HOURS PUMPED (nearest hour) N/A (8–9)

PUMPING RATE (gal. per min.) N/A (11–15)

METHOD USED TO MEASURE PUMPING RATE N/A

WATER LEVEL (distance from land surface)

BEFORE PUMPING N/A (17–20) ft.

WHEN PUMPING N/A (22–25) ft.

TYPE OF PUMP USED (for test)

[A] air (27) [P] piston (27) [T] turbine (27)

[C] centrifugal (27) [R] rotary (27) [O] other (describe below) (27)

[J] jet (27) [S] submersible (27)

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. N/A (29)

CAPACITY: GALLONS PER MINUTE (to nearest gallon) N/A (31–35)

PUMP HORSE POWER N/A (37–41)

PUMP COLUMN LENGTH (nearest ft.) N/A (43–47)

CASING HEIGHT (circle appropriate box and enter casing height)

[+] above (49) [–] below (49) LAND SURFACE -3 (50–51) (nearest foot)

LATITUDE 39.186044

LONGITUDE 76.987453

(DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryand 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 pulic and other governmental agencies, if not protected by federal or state law.

MDE/WMA/PER.071

COUNTY

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

C | 1 | 65744

SEQUENCE NO. (MDE USE ONLY)

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

STATE USE ONLY
DATE Received: MM DD YY

DATE WELL COMPLETED
MM DD YY

Depth of Well
(TO NEAREST FOOT)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"

OWNER

WELL SITE ADDRESS — TOWN

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 additional sheets if needed)	FEET FROM	FEET TO	Check if water bearing

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.: M — DATE

DRILLER'S SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: D — DATE

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

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) — Y / N

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT — BENTONITE CLAY

NO. OF BAGS — NO. OF POUNDS

GALLONS OF WATER

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

CASING RECORD
Casing Types insert appropriate code below: 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
CASING			

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

DEPTH (nearest ft.)

SCREEN	1									
	2									
	3									

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN (NEAREST INCH)

	from	to
GRAVEL PACK		

IF WELL DRILLED WAS FLOWING (SEE INSERT F IN BOX 58)

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)

PUMPING RATE (gal. per min.)

METHOD USED TO MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)
BEFORE PUMPING ft.
WHEN PUMPING 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,S,T,O) IN BOX 29

CAPACITY:
GALLONS PER MINUTE (to nearest gallon)

PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height) — + above / − below — LAND SURFACE (nearest foot)

LATITUDE 39 . 1 8 6 0 4 4
LONGITUDE 76 . 9 7 1 9 3 2
(DEFAULT COORD. WGS 84)

Pursuant to 510-524 of the State Govt. Article of the Md. Land Code personal info. requested on this form is used to process 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 government agencies, if not protected by federal or state law.

COUNTY

MDE/WMA/PER.071

C 1 | 65746 | SEQUENCE NO. (MDE USE ONLY)

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

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPE #3

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

COUNTY NUMBER 13

ST/CO USE ONLY
DATE Received MM 01 DD 10 YY 22 (8–13)

DATE WELL COMPLETED MM 12 DD 22 YY 2021 (15–20)

Approved 1/28/22 (S)

Depth of Well 320' (TO NEAREST FOOT) (22–26)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO - 20 - 0138 (28–37)

OWNER Dorko (last name) Stephen (first name)

WELL SITE ADDRESS 6731 Cortina Drive TOWN Highland

SUBDIVISION Lot 15 1,002A 6731 Cortina Dr. Deer tract SECTION ____ LOT 15

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	FEET TO	check if water bearing
Si A, mica, brown dry trac Fine sand.	0'	45'	
Weathered Rock gray	45'	60'	
Bed Rock gray.	60'	320'	
Wissahickon formation Lower Pelitic Schist.			
Installed 1.25 X 320' HDPE U-Bend loop.			

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes [Y] no [N] (44)

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.: M W D 581

Stephen Dorko
DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: A W D 063

Robert Mickel

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

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) yes [Y] (44) no [N] (44)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT [CM] (45 46) BENTONITE CLAY [BC] (45–46)

NO. OF BAGS 10 NO. OF POUNDS 500

GALLONS OF WATER 190

DEPTH OF GROUT SEAL (to nearest foot)

from 0 (48–52 TOP) ft. to 320' (54–58 BOTTOM) ft.

(enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below

[ST] STEEL [CO] CONCRETE [PL] PLASTIC [OT] OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
PL (60–61)	6" (63–64)	60' (66–70)

OTHER CASING (if used) — EACH CASING

diameter inch	depth (feet) from	to

SCREEN RECORD
screen type or open hole — insert appropriate code below

[ST] STEEL [BR] BRASS BRONZE [HO] OPEN HOLE [PL] PLASTIC [OT] OTHER

C 2 (1–2)

DEPTH (nearest ft.)

EACH SCREEN			
1	HO (8–9)	60' (11–15)	320' (17–21)
2	(23–24)	(26–30)	(32–36)
3	(38–39)	(41–45)	(47–51)

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (56–60) (NEAREST INCH)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68	from	to

(68)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (70) (E.R.O.S.) (72) W Q (74 75 76)

TELESCOPE CASING — LOG INDICATOR — OTHER DATA

C 3 (1–2)

PUMPING TEST
HOURS PUMPED (nearest hour) N/A (8–9)

PUMPING RATE (gal. per min.) N/A (11–15)

METHOD USED TO MEASURE PUMPING RATE N/A

WATER LEVEL (distance from land surface)

BEFORE PUMPING N/A (17–20) ft.

WHEN PUMPING N/A (22–25) ft.

TYPE OF PUMP USED (for test)

[A] air (27) [P] piston (27) [T] turbine (27)

[C] centrifugal (27) [R] rotary (27) [O] other (describe below) (27)

[J] jet (27) [S] submersible (27)

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. N/A (29)

CAPACITY: GALLONS PER MINUTE (to nearest gallon) N/A (31–35)

PUMP HORSE POWER N/A (37–41)

PUMP COLUMN LENGTH (nearest ft.) N/A (43–47)

CASING HEIGHT (circle appropriate box and enter casing height)

[+] (49) above LAND SURFACE

[−] (49) below

-3 (50–51) (nearest foot)

LATITUDE 39.186074

LONGITUDE 76.987442

(DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryand 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 pulic and other governmental agencies, if not protected by federal or state law.

MDE/WMA/PER.071

COUNTY

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.

C 1 | 65746 | SEQUENCE NO. (MDE USE ONLY)

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-8 ON ALL CARDS)

COUNTY NUMBER

STATE USE ONLY
DATE Received

DATE WELL COMPLETED

PERMIT NO.
FROM "PERMIT TO DRILL WELL"

Depth of Well
(TO NEAREST FOOT)

OWNER

WELL SITE ADDRESS (Street name) TOWN

SUBDIVISION (If in a planned community) 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	FEET TO	Check if water bearing

NUMBER OF UNSUCCESSFUL WELLS:

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

(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.:

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.:

SITE SUPERVISOR (Sign, if driller or journeyman responsible for sitework if different from permittee)

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) — Y / N

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT C | M — BENTONITE CLAY B | C

NO. OF BAGS: NO. OF POUNDS:

GALLONS OF WATER

DEPTH OF GROUT SEAL (to nearest foot)

from ft. to ft.
(enter 0 if from surface)

CASING RECORD

casing types — insert appropriate code below

STEEL S | T — CONCRETE C | O — MASTIC P | L — OTHER O | T

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)	Total depth of main casing (nearest foot)

OTHER CASING (if used)

SCREEN	diameter inch	depth from	depth to

SCREEN RECORD

screen type or open hole — insert appropriate code below

STEEL S | T — BRASS B | R — OPEN HOLE H | O — BRONZE P | L — PLASTIC O | T — OTHER

DEPTH (nearest ft.)

FROM																								
TO																								

SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH)

from to

DRAVEL PACK IF WELL DRILLED WAS FLOWING WELL (ENTER F IN BOX 88)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

TELESCOPE CASING | LOG INDICATOR | OTHER DATA

PUMPING TEST

HOURS PUMPED (nearest hour)

PUMPING RATE (gal. per min.)

METHOD USED TO MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING ft.

WHEN PUMPING 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)

PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height)
+ above LAND SURFACE
− below (nearest foot)

LATITUDE 39.18907
LONGITUDE 76.93142
(DEFAULT COORD. WGS 84)

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JAN 26 2022

COUNTY

MDENWMAPER.071

C 1 65745 — SEQUENCE NO. (MDE USE ONLY)

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

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPE #2

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

COUNTY NUMBER 13

ST/CO USE ONLY
DATE Received 01/26/2022

DATE WELL COMPLETED MM 12 DD 22 YY 2021

Approved 1/28/22 ST

Depth of Well 320' (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-20-0138

OWNER Dorko (last name) Stephen (first name)

WELL SITE ADDRESS 6731 Cortina Drive TOWN Highland

SUBDIVISION Lot 15 1.002A. 6731 Cortina Dr. Deer Track SECTION LOT 15

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	FEET TO	check if water bearing
Si. H. brown mica, dry trac fine Sand	0'	45'	
weathered Rock gravy	45'	60'	✓
Bed rock gray Wissahickon formation Lower pelitic Schist.	60'	320'	✓
Installed 1.25" x 320' HDPE U-Bend loop			

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes [Y] no [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.: MWD 587

Stephen DeLot
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: AWD 063

Robert Mudge

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

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 10 NO. OF POUNDS 500

GALLONS OF WATER 190

DEPTH OF GROUT SEAL (to nearest foot)

from 0' (TOP) ft. to 320' (BOTTOM) ft.

(enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below

[ST] STEEL [CO] CONCRETE [PL] PLASTIC [OT] OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
PL	6"	60'

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	to

SCREEN RECORD
screen type or open hole — insert appropriate code below

[ST] STEEL [BR] BRASS BRONZE [HO] OPEN HOLE [PL] PLASTIC [OT] OTHER

C 2

DEPTH (nearest ft.)

EACH SCREEN		from	to
1	HO	60'	320'
2			
3			

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (NEAREST INCH)

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) 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 N/A 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

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. N/A

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 39.186048

LONGITUDE 76.987427

(DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryand 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 pulic and other governmental agencies, if not protected by federal or state law.

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.

C1 | 65745 | SEQUENCE NO. (MDE USE ONLY)

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

COUNTY NUMBER

STYCO USE ONLY
DATE Received

DATE WELL COMPLETED

PERMIT NO.
FROM "PERMIT TO DRILL WELL"

Depth of Well (TO NEAREST FOOT)

OWNER

WELL SITE ADDRESS — TOWN

SUBDIVISION — 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	FEET TO	check if water bearing

NUMBER OF UNSUCCESSFUL WELLS:

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.:

DRILLER'S SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.:

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

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT / BENTONITE CLAY

NO. OF BAGS ____ NO. OF POUNDS ____

GALLONS OF WATER ____

DEPTH OF GROUT SEAL (to nearest foot)

from ____ ft. to ____ ft.
(TOP / BOTTOM)

(enter 0 if from surface)

CASING RECORD

Casing types insert appropriate code below: STEEL, CONCRETE, PLASTIC, OTHER

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, insert appropriate code below: STEEL, BRASS, OPEN HOLE, PLASTIC, OTHER

DEPTH (nearest ft.)

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (NEAREST INCH)

from ____ to ____

GRAVEL PACK

IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 88

MDE USE ONLY
(NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W O

TELESCOPE CASING — LOG INDICATOR — OTHER DATA

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)

PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height) — + above / - below LAND SURFACE (nearest foot)

PUMPING TEST

HOURS PUMPED (nearest hour)

PUMPING RATE (gal. per min.)

METHOD USED TO MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING ____ ft.

WHEN PUMPING ____ 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

LATITUDE 39 . 1 8 5 6 4 2
LONGITUDE 76 . 7 2 7 4 2
(DEFAULT COORD. WGS 84)

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JAN 26 2022

COUNTY

MDE/WMA/PER.017

EMERGENCY/TEMP NO. IF ANY

B 1 — SEQUENCE NO. (MDE USE ONLY): 79907 (1 2 3 … 6)

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL
please type

590213

STATE PERMIT NUMBER: HO – 20 – 0138 (70 … 79) fill in this form completely

Date Received (APA): 10 20 21 (8 MM DD YY 13)

OWNER INFORMATION

15 Last Name: Docko — Owner: Stephen — First Name: 34

36 Street or RFD: 6731 Cortina Drive 55

57 Town: Highland — 70 State: Md. — 72 Zip: 20777 76

DRILLER INFORMATION

Driller's Name: Stephen DeLosh — 76 License No.: MW D 587 81

Firm Name: Connelly & Associates, Inc.

Address: 1513 Tilco Drive Frederick, Md. 21704

Signature: Stephen DeLosh — Date: 10-20-2021

B 3 LOCATION OF WELL

8 COUNTY: Howard 21

23 SUBDIVISION: Lot 15 1.002 A. 6731 Cortina Dr. Deer Tracks 42

SECTION (44 46) — LOT (48 50): 15

52 NEAREST TOWN: Highland 71

B 4

SOURCES OF DRILLING WATER
1. Private
2.
3. 12" Well all bores grouted 1-1 Wye SE Greatest Depth

11 STREET ADDRESS: 6731 Cortina Drive 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX): NORTH (N) WEST (W) EAST (E) SOUTH (S)

34 DISTANCE FROM ROAD: 925 37 — ENTER FT OR MI: FT (38 39)

TAX MAP: 0034 BLK: 9999 PARCEL 0129

B 2 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)

- D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
- F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
- 22 I INDUSTRIAL, COMMERCIAL, DEWATERING
- P PUBLIC WATER SUPPLY WELL
- T TEST, OBSERVATION, MONITORING
- O OPEN LOOP GEOTHERMAL
- C 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: 10/22/21 (43 MM DD YY 48) — CO SIGNATURE: Susan Thomas — EXP. DATE: 10/22/21

DDN 12/20/21 (S) DDC 12/21/21 (S)

APPROXIMATE DEPTH OF WELL: 320 (24 … 28) FEET

APPROXIMATE DIAMETER OF WELL: 6 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 DEEPENED 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
- 39 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 DEEPENED (IF AVAILABLE) (41 … 52): _ _ – _ _ – _ _ _ _

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



N

12/20/21 Settings OK 10:30 AM

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

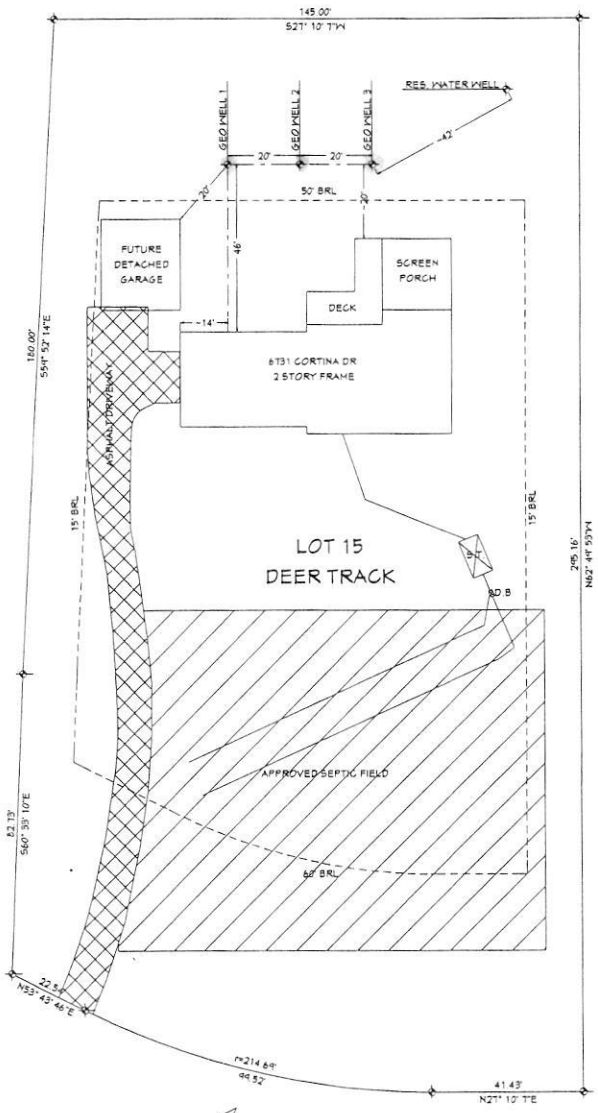
APPROP. PERMIT NUMBER: _ _ _ _ _ G _ _ _

PERMIT No. HO – 20 – 0138 (70 71 72 73 74 75 76 77 78 79)

SPECIAL CONDITIONS
NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

MDE/WMA/PER.071

② COUNTY



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

HO-20- 0138

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

Approved 10/22/21 ST
Staked by driller

3 @ 320'

6731 CORTINA DR.

GEOTHERMAL WELL LOCATION

SCALE : 1" = 50'	DATE: 8/19/2021

Howard County Health Department

Bureau of Environmental Health
8930 Stanford Boulevard, Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

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

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

Well Site Location:

1.002 A. 6731 Cortina Dr. Deer Track — Subdivision/Property Name
15 — Lot #
Cortina Drive — Road Name

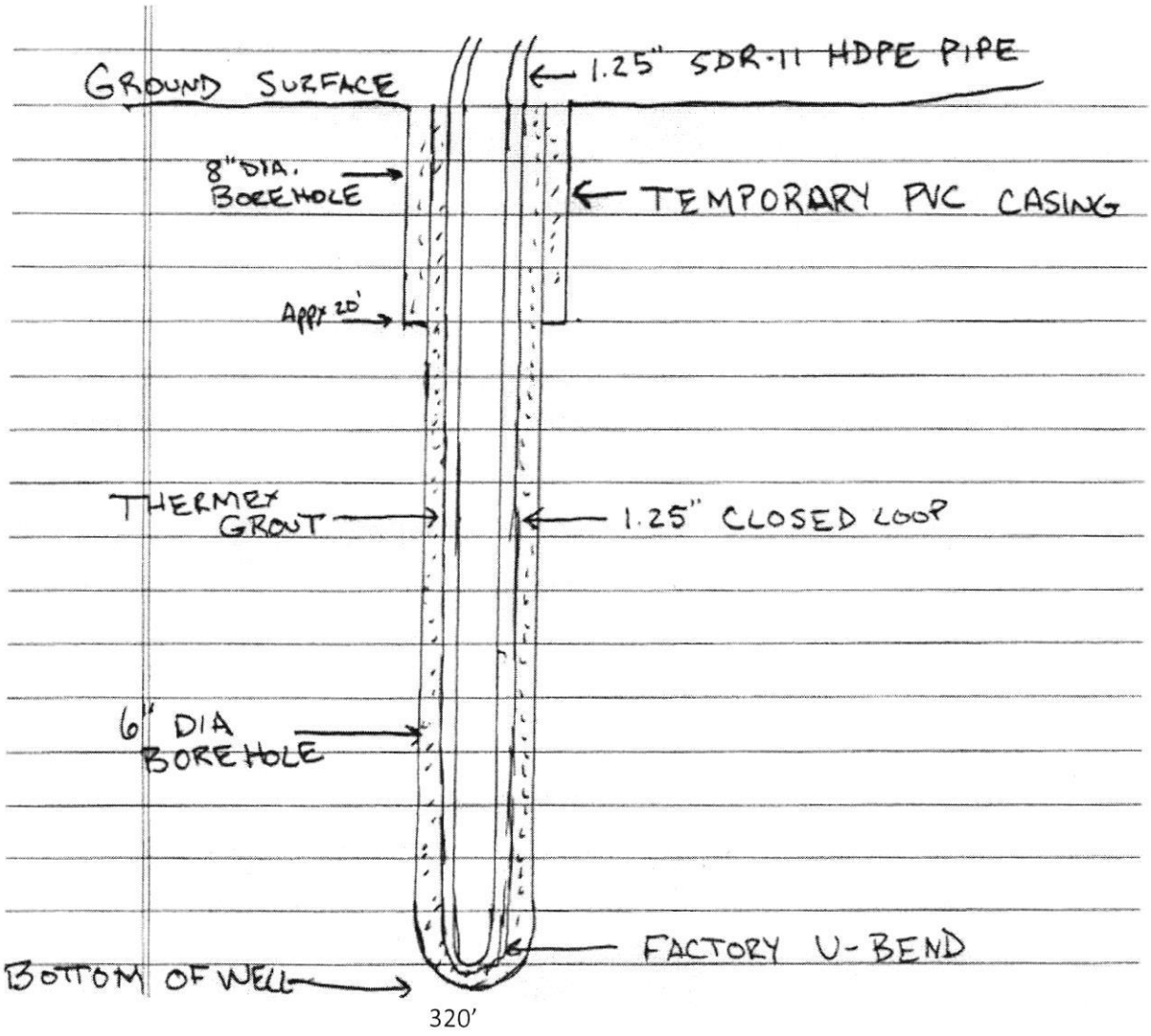
☒ The well site has been staked by Connelly & Associates Inc.
(professional land surveyor or company employing professional land surveyors)
on _____ (date) and does not require a site inspection.

☐ The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Connelly Geothermal
Partnering with Mother Earth

Dorko Residence: 6731 Cortina Drive Highland, 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.