

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS) FILL IN THIS FORM COMPLETELY PLEASE TYPE COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED: MM DD YY DATE WELL COMPLETED: MM DD YY Depth of Well: 22 320 26 (TO NEAREST FOOT) PERMIT NO. FROM "PERMIT TO DRILL WELL": 40-14-0063

OWNER: Crawford Steven & Coral WELL SITE ADDRESS: 7238 Meadow Wood Way TOWN: Clarksville SUBDIVISION: Simpson Woods SECTION: LOT: 3

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		check if water bearing
	FROM	TO	
Topsoil	0	1	
Silt: Brn. f-m sand w/rock frag	1	40	
Wenth. Rock:	40	55	
Schist: Brn, Tan, Grey silt w/f-sand wet	55	320	✓

GROUTING RECORD yes no
WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N
TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC
NO. OF BAGS 15 NO. OF POUNDS 750
GALLONS OF WATER 285
DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 320 ft.

CASING RECORD
casing types insert appropriate code below
MAIN CASING TYPE: ST STEEL, CO CONCRETE, PL PLASTIC, OT OTHER
Nominal diameter top (main) casing (nearest inch): 60-70
Total depth of main casing (nearest foot): 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, HO OPEN HOLE, PL PLASTIC, OT OTHER

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. 1 MWD 522
DRILLERS SIGNATURE: [Signature]
LIC. NO. 1 D

C 2 DEPTH (nearest ft.)
E 1 8 9 11 15 17 21
A 2 23 24 26 30 32 36
H 3 38 39 41 45 47 51
S 4
R 5
E 6
N 7
SLOT SIZE 1 2 3
DIAMETER OF SCREEN (NEAREST INCH) 56 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

C 3 PUMPING TEST
HOURS PUMPED (nearest hour) N/A
PUMPING RATE (gal. per min.) N/A
METHOD USED TO MEASURE PUMPING RATE
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, 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 -3 (nearest foot)

LATITUDE 39.174311
LONGITUDE 76.923012
(DEFAULT COORD. WGS 84)

NOTES:
(3) 1.25" x 320'
Closed loop Hdpe Pipe

B 1	26373	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 554542 please type	STATE PERMIT NUMBER 16 - 14 - 0063 fill in this form completely
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OWNER INFORMATION

Date Received (APA) 01/31/14

8 MM DD YY 13

Crawford Steven + Coral

15 Last Name Owner First Name 34

7238 Meadow Wood Way

36 Street or RFD 55

Clarksville MD 21029

57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

Howard

8 COUNTY 21

Simpson Woods

23 SUBDIVISION 42

SECTION 44 46 LOT 3 48 50

Clarksville

52 NEAREST TOWN 71

DRILLER INFORMATION

Samuel A. Connelly MWD 572

Driller's Name 76 License No. 81

Connelly + Associates, Inc.

Firm Name

200 Interstate Ct, Frederick, MD 21704

Address

Samuel A. Connelly 7/10/14

Signature Date

B 4 SOURCES OF DRILLING WATER

1. private

2.

3.

7238 Meadow Wood Way

11 STREET ADDRESS 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH
 WEST EAST
 SOUTH

34 120 37

DISTANCE FROM ROAD FT

ENTER FT OR MI 38 39

TAX MAP: 41 BLK: _____ PARCEL _____

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) _____ 8 _____ 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) _____ 14 _____ 20

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard

COUNTY NAME COUNTY NO.

STATE SIGNATURE _____ INSERT S →

DATE ISSUED _____ 41

7/24/14 [Signature] 7/24/15

43 MM DD YY 48 CO SIGNATURE EXP. DATE

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

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 DEEPEINED 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 DEEPEIN AN EXISTING WELL

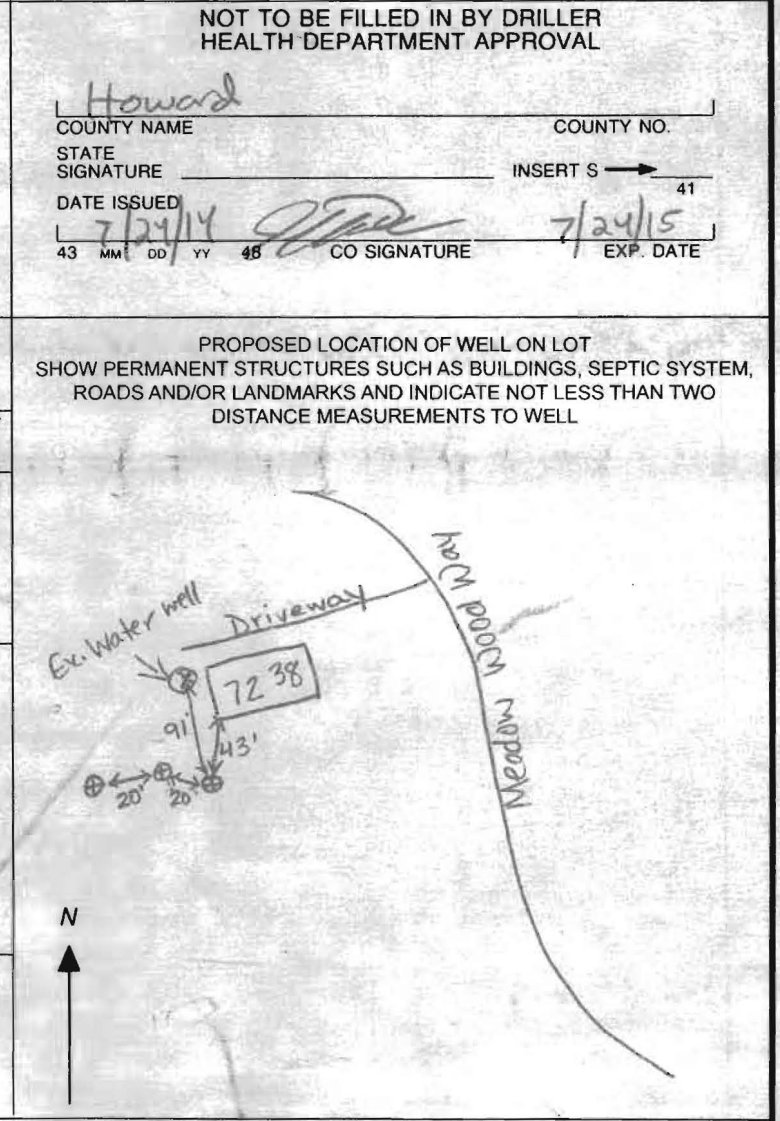
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 _____ 52

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

APPROX. PERMIT NUMBER _____ **G** _____

PERMIT No. _____

70 71 72 73 74 75 76 77 78 79





260 Interstate Court, Frederick, Maryland 21704 · 301-696-8820 · www.connellygeothermal.com

Howard County
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045

November 3, 2014

RE: Well Completion Report – Permit HO-14-0063

Please find enclosed the well completion reports for the geothermal wells installed at 7238 Meadow Wood Way in Clarksville, MD.

Thank you,

A handwritten signature in black ink, appearing to read 'Emily Sottile', written in a cursive style.

Emily Sottile
Business Operations Manager



260 Interstate Court, Frederick, Maryland 21704 · 301-696-8820 · www.connellygeothermal.com

Howard County Health Dept.
Bureau of Environmental Health
Ascend One Bldg
8930 Stanford Blvd.
Columbia, MD 21045

July 10, 2014

RE: Geothermal Well Permit Application / 7238 Meadow Wood Way

Sharhonda:

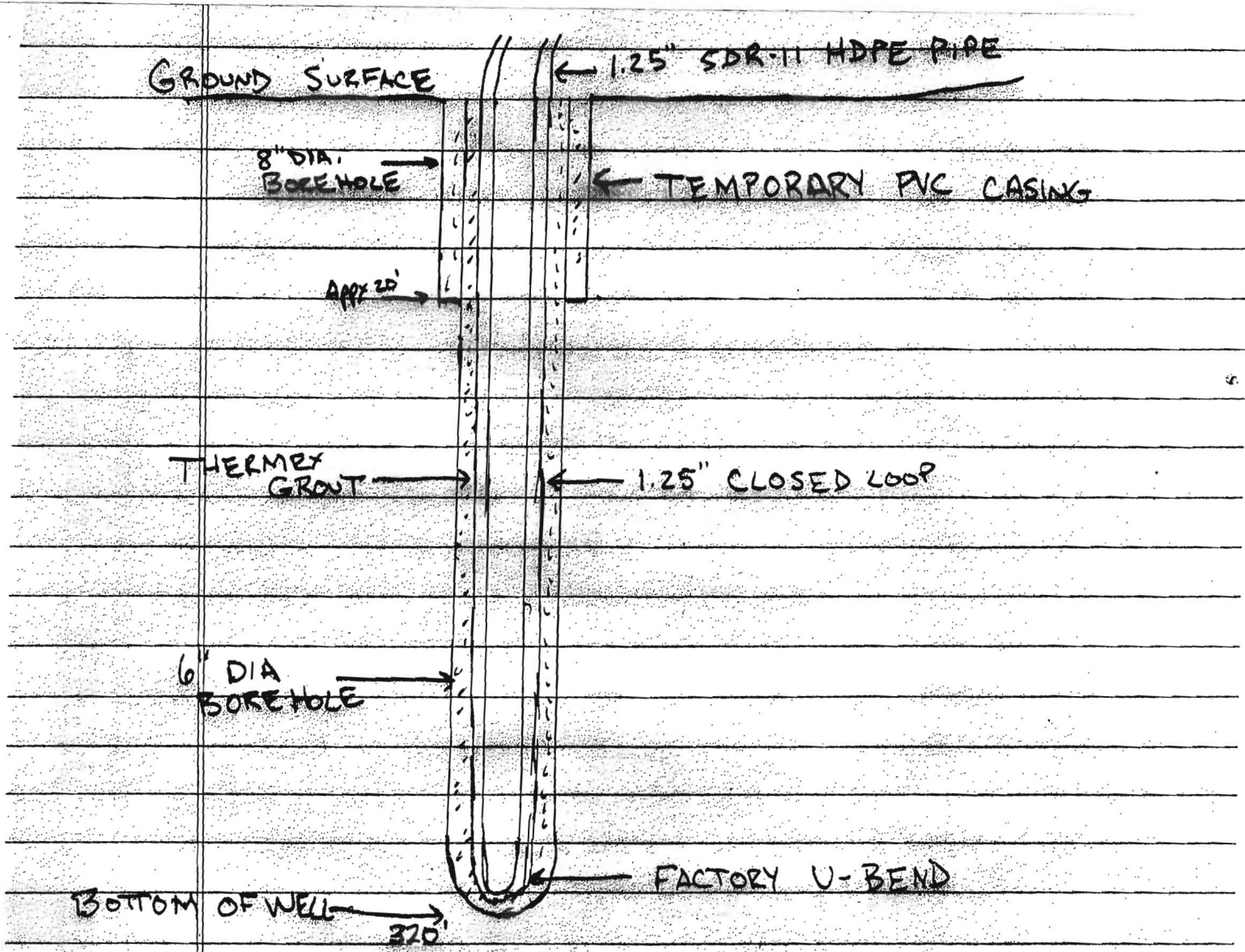
Please find enclosed the well application, cross-section diagram, site plans and check for \$160. Please call or email me once the sanitarian is assigned and let me know his/her name and contact information.

Respectfully,

A handwritten signature in cursive script, appearing to read 'Emily Sottile', is written over a light blue circular stamp.

Emily Sottile
Business Operations Manager

Geothermal Closed Loop - 7238 Meadow Wood Way



Grout information for this property is as follows:

Thermex grout mixture of 50 lb. grout to 17 gallons water, placed in the well using the tremmie method, from bottom to top.

