

C 1 36909 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.

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

COUNTY NUMBER

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE Received MM DD YY

MM DD YY

22 450 26 (TO NEAREST FOOT)

OK 8/20/15 SC

28 29 30 31 32 33 34 35 36 37 140 - 15 - 0095

OWNER McCarthy last name first name GREG POLLY WELL SITE ADDRESS 12438 petruso dr. TOWN Highland SUBDIVISION Waterman Estates SECTION LOT 17

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. Includes handwritten entries: Top soil/grass, Weathered Rock Silty Inca bed, Bed Rock, 24 bags x 26 gal bag = 1.4 gal/ft.

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 24 NO. OF POUNDS 1,200 GALLONS OF WATER 456 gal. DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 450 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)

diagram for other casing with diameter and depth fields

screen type or open hole

SCREEN RECORD

insert appropriate code below STEEL BRASS BRONZE PLASTIC OPEN HOLE OTHER

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED YES Y NO N

CIRCLE APPROPRIATE LETTER 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 572 DRILLERS SIGNATURE Samuel A. Connolly LIC. NO. 1 AW D 973

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

C 2 DEPTH (nearest ft.) 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 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 N/A 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) 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 39.156156 LONGITUDE -76.944159 (DEFAULT COORD. WGS 84)

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**C 1** 36907 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.

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 YY  
8 13

DATE WELL COMPLETED MM DD YY  
06 26 15

Depth of Well 22 450 26  
(TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL"  
H6 - 15 - 0095

COUNTY NUMBER 28 29 30 31 32 33 34 35 36 37

OWNER McCarty last name McCarty first name Greg & Polly

WELL SITE ADDRESS 12458 Petville Dr. TOWN Highland

SUBDIVISION Waterman Estates SECTION \_\_\_\_\_ LOT 17

**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	
Top soil / grass	0	1.5	
Weathered rock Silty / micaceous	1.5	35'	✓
Bed rock	35'	450	✓

Installed 1 1/4 Geo loop  
Geo well # 1

**GROUTING RECORD** yes  no   
(Well HAS BEEN GROUTED (Circle Appropriate Box))

TYPE OF GROUTING MATERIAL (Circle one)  
CEMENT  BENTONITE CLAY

NO. OF BAGS 24 NO. OF POUNDS 1200

GALLONS OF WATER 48 gal

DEPTH OF GROUT SEAL (to nearest foot)  
from 0 ft. to 450 ft.  
(enter 0 if from surface)

**CASING RECORD**

MAIN CASING TYPE      
STEEL CONCRETE PLASTIC OTHER

Nominal diameter top (main) casing (nearest inch): \_\_\_\_\_ Total depth of main casing (nearest foot): \_\_\_\_\_

**OTHER CASING (if used)**

EACH CASING	diameter inch		depth (feet)	
	inch	from	to	

**SCREEN RECORD**

screen type or open hole     
STEEL BRASS OPEN HOLE BRONZE PLASTIC OTHER

DEPTH (nearest ft.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

**C 2**

SCREEN TYPE OR OPEN HOLE     
STEEL BRASS OPEN HOLE BRONZE PLASTIC OTHER

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 N/A

WATER LEVEL (distance from land surface)  
BEFORE PUMPING N/A ft.  
WHEN PUMPING NA ft.

TYPE OF PUMP USED (for test)  
 air  piston  turbine  
 centrifugal  rotary  other (describe below)  
 jet  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) N/A

PUMP HORSE POWER N/A

PUMP COLUMN LENGTH (nearest ft.) N/A

CASING HEIGHT (circle appropriate box and enter casing height)  
 above } LAND SURFACE  
 below } -3 (nearest foot)

LATITUDE 39.156322  
LONGITUDE -76.949169  
(DEFAULT COORD. WGS 84)

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NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED

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. MND572  
DRILLERS SIGNATURE Samuel A. Connolly  
(MUST MATCH SIGNATURE ON APPLICATION)  
LIC. NO. AVD973

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

C1 36908

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

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

COUNTY NUMBER

ST/CO USE ONLY DATE Received MM DD YY

DATE WELL COMPLETED MM DD YY

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER MCCarty last name first name TOWN Highland

WELL SITE ADDRESS 12458 petrillo Dr. SUBDIVISION Waterman Estates SECTION LOT 17

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. Includes entries for Top Soil/grass, weathered Rock, Silty/mid hard, Bed Rock, and Geo well #2.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES NO. TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC. NO. OF BAGS 24 NO. OF POUNDS 1200. GALLONS OF WATER 456. DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 450 ft.

CASING RECORD

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch)! Total depth of main casing (nearest foot). Includes checkboxes for Steel, Concrete, Plastic, Other.

OTHER CASING (if used) diameter inch depth (feet) from to. Includes checkboxes for Steel, Brass, Open Hole, Plastic, Other.

SCREEN RECORD

screen type or open hole (insert appropriate code below). Includes checkboxes for Steel, Brass, Open Hole, Plastic, Other.

Table with columns: DEPTH (nearest ft.), A, C, H, S, C, R, E, N. Includes slot size and diameter of screen information.

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. Includes telescope casing and log indicator information.

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 8/9. PUMPING RATE (gal. per min.) 11/15. METHOD USED TO MEASURE PUMPING RATE N/A. 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) 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 39.156230 LONGITUDE -76.944163 (DEFAULT COORD. WGS 84)

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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 D572. DRILLERS SIGNATURE Samuel A. Connelly. LIC. NO. AV D973.

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

B 1 <u>36543</u> <small>1 2 3 6</small>	SEQUENCE NO. (MDE USE ONLY)	<b>STATE OF MARYLAND</b> <b>APPLICATION FOR PERMIT TO DRILL WELL</b> please type	STATE PERMIT NUMBER <u>H0-15-0095</u> <small>70 fill in this form completely 79</small>
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Date Received (APA)

**OWNER INFORMATION**

8 MM DD YY 13  
McCarty Greg + Polly  
15 Last Name Owner First Name 34

12458 Petrillo Drive  
36 Street or RFD 55

Highland MD 20777  
57 Town 70 State 72 Zip 76

**LOCATION OF WELL**

Howard  
8 COUNTY 21

Waterman Estates  
23 SUBDIVISION 42

SECTION 44 46 LOT 17 48 50

Highland  
52 NEAREST TOWN 71

**DRILLER INFORMATION**

Samuel A. Connelly MWD 572  
76 License No. 81

Connelly + Associates, Inc.  
Firm Name

2100 Interstate Ct. Frederick, MD 21704  
Address

Samuel A. Connelly 6/10/15  
Signature Date

**SOURCES OF DRILLING WATER**

1. Private  
11. STREET ADDRESS 30

2. \_\_\_\_\_  
34 150 37

3. \_\_\_\_\_  
38 39

ON WHICH SIDE OF ROAD  
(CIRCLE APPROPRIATE BOX)

NORTH  
 WEST  
 EAST  
 SOUTH

DISTANCE FROM ROAD 150 FT  
 ENTER FT OR MI

TAX MAP: 40 BLK: 24 PARCEL 250

**WELL INFORMATION**

APPROX. PUMPING RATE (GAL. PER MIN.) 8 12  
1 2

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20  
1 2

**USE FOR WATER (CIRCLE APPROPRIATE BOX)**

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**

Howard (13)  
COUNTY NAME COUNTY NO.

STATE SIGNATURE \_\_\_\_\_ INSERT S →

DATE ISSUED 6/22/15 6/22/16  
43 MM DD 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 450 FEET  
24 28

APPROXIMATE DIAMETER OF WELL 6 INCH  
NEAREST INCH

**METHOD OF DRILLING (circle one)**

BORED (or Augered) JETTED Jetted & DRIVEN

AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary)

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

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

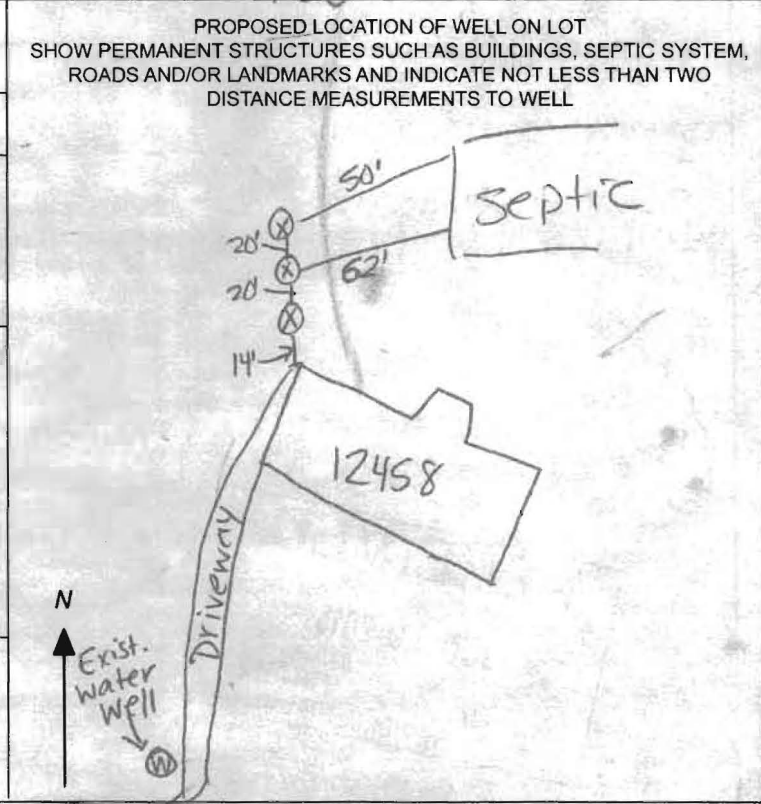
THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) \_\_\_\_\_

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

APPROP. PERMIT NUMBER \_\_\_\_\_ G \_\_\_\_\_

PERMIT No. H0-15-0095  
70 71 72 73 74 75 76 77 78 79



**SPECIAL CONDITIONS**

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



LOT 19

JOHN F. HYDE AND PEI  
WESTLAND  
252/408 AND 299/1



(NOT to Scale)

12458  
Petrillo Dr.

LOT 18

Locations approved  
6/22/15 SC

locations  
too close  
to  
propane  
tank

approved  
drilling  
sites

N82°42'11"E

139.39'

30' B.R.L.

30' B.R.L.

60' B.R.L.

S36°55'07"E  
471.00'

SEPTIC  
AREA

N06°28'00"E

415.06'

50'

20'

20'

4'

buried propane  
tank

septic tank

120'

130'

211.5'

SEE DETAIL

LOT 17

135' B.R.L.

97.6'±

30' B.R.L.

N89°00'00"E 310.00'

\*81-22-04

444.40'

S79°53'12"W