

C1 31712 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

ST/CO USE ONLY DATE RECEIVED DATE WELL COMPLETED Depth of Well PERMIT NO.
DATE RECEIVED FROM "PERMIT TO DRILL WELL"
MM DD YY MM DD YY 22 26 28 29 30 31 32 33 34 35 36 37
8 13 15 20 20 24 14 320 4/9/15 SC H0-14-00510

OWNER Miller last name first name
WELL SITE ADDRESS 1704 Adgate Ct. TOWN Woodbine
SUBDIVISION Lisbon Acres SECTION LOT 2

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	
Silt, some gravel, shale	0	20	
Weathered Rock	20	40	
Rock. Hard	40	320	✓

Installed 1.25" closed loop Geothermal

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle appropriate box)

TYPE OF GROUTING MATERIAL (Circle one)
CEMENT M BENTONITE CLAY BC
NO. OF BAGS 16 NO. OF POUNDS 300
GALLONS OF WATER 272
DEPTH OF GROUT SEAL (to nearest foot)
from 3 ft. to 320 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)
60 61 63 64 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
STEEL ST BRASS BR OPEN HOLE HO
BRONZE PL PLASTIC PL OTHER OT

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 17 420 20 ft.
WHEN PUMPING 22 N/A 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 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 LAND SURFACE
- below 3 (nearest foot)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes no
 Y 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. Connelly
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 JWD 391
WORKMAN SIGNATURE Wesley A. Wolfe

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

C 2 DEPTH (nearest ft.)

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

70 72 74 75 76
TELESCOPE CASING LOG INDICATOR OTHER DATA

LATITUDE 39.202116
LONGITUDE 77.024192
(DEFAULT COORD. WGS 84)

NOTES:
Right of home
16 bags x 20 gal / bag = 416 gal / 320' = 1.3 gal/ft

C 1 31713 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.

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

COUNTY NUMBER

ST/CO USE ONLY

DATE Received MM DD YY 10 16 14

DATE WELL COMPLETED MM DD YY 07 25 14

Depth of Well 22 320 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" H0-14-0056

OWNER Miller last name, Sarah first name, WELL SITE ADDRESS 1204 Adgate Ct., TOWN Woodbury, SUBDIVISION LISBON ACRES, 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 (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes handwritten entries: Silty. Some Shale, Weathered Rock, Rock. Hard, Installed 1.25" Closed Loop Geothermal.

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 16 NO. OF POUNDS 880. GALLONS OF WATER 272. DEPTH OF GROUT SEAL (to nearest foot) from 3 ft. to 320 ft.

CASING RECORD

casings types insert appropriate code below. MAIN CASING TYPE: Nominal diameter top (main) casing (nearest inch) 60, Total depth of main casing (nearest foot) 320.

OTHER CASING (if used)

Table for OTHER CASING with columns: diameter inch, depth (feet) from, to.

SCREEN RECORD

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

DEPTH (nearest ft.)

Table for DEPTH with columns: E, A, C, H, S, C, R, E, N and values for various casing sections.

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) 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 170 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 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 3 (nearest foot).

LATITUDE 39.202131 LONGITUDE 77.024226 (DEFAULT COORD. WGS 84)

NOTES:

Right of home 16 bags x 26 gal/bag = 416 gal / 320' = 1.3 gal/ft

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DATE Received FROM "PERMIT TO DRILL WELL"
MM DD YY MM DD YY 22 26 4/9/15 SC 28 29 30 31 32 33 34 35 36 37
8 13 15 20 (TO NEAREST FOOT)

OWNER Miller last name first name
WELL SITE ADDRESS 1704 Adgate Ct. TOWN Woodbine
SUBDIVISION Lisbon Acres SECTION LOT 2

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Weathered Rock	20	40	
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Installed 1.25" closed Loop Geothermal

GROUTING RECORD
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TYPE OF GROUTING MATERIAL (Circle one)
CEMENT M BENTONITE CLAY BC
NO. OF BAGS 16 NO. OF POUNDS 300
GALLONS OF WATER 272
DEPTH OF GROUT SEAL (to nearest foot)
from 3 ft. to 320 ft.
(enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below

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

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

SCREEN RECORD
screen type or open hole insert appropriate code below

C 2 DEPTH (nearest ft.)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A																					
C																					
H																					
S																					
C																					
R																					
E																					
E																					
N																					

SLOT SIZE 1 2 3
DIAMETER OF SCREEN (NEAREST INCH)
56 60
from to

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

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DATE WELL COMPLETED

MM 07 DD 25 YY 14

Depth of Well

22 320 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OK 4/9/15 SC HD-14-0056

OWNER Miller last name, Sarah first name, WELL SITE ADDRESS 1204 Adgate Ct., TOWN Woodbury, SUBDIVISION LISBON ACRES, SECTION, LOT

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OTHER CASING (if used)

Table for OTHER CASING with columns: diameter inch, depth (feet) from, to.

SCREEN RECORD

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

DEPTH (nearest ft.)

Table for DEPTH with columns: E, A, C, H, S, C, R, E, N and rows for 1, 2, 3 slot sizes 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) 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 170 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.

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NOTES:

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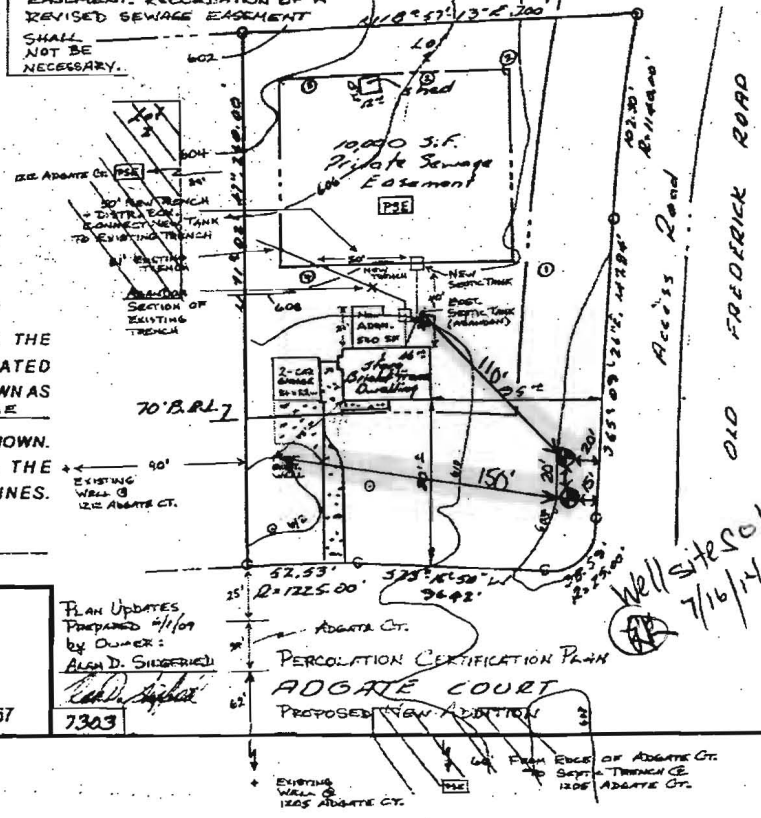
I HEREBY CERTIFY THAT I HAVE LOCATED THE IMPROVEMENTS ON THE PROPERTY SITUATED IN HOWARD COUNTY, MARYLAND AND KNOWN AS 1204 Adgate Court, WOODBINE AND THE IMPROVEMENTS ARE LOCATED AS SHOWN. THIS PLAT IS NOT TO BE USED FOR THE PURPOSE OF ESTABLISHING PROPERTY LINES.

Richard W. Gault 5/15/07

TEMPLAR ENGINEERING, INC.
 8235 RUXTON CROSSING CT.
 RUXTON, MARYLAND 21204
 SCALE: 1"=100' PHONE: 823-3567

PSE THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECOGNITION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

Lot Number: 1
 Block/Section: -
 Plat Reference: No. 3586
 Title of Plat: 1.5660 Acres



- NOTES:**
- ALL WELLS & SEPTIC SHOWN WITHIN 100' OF PROPERTY.
 - TOPOGRAPHY TAKEN FROM HOWARD COUNTY GIS.
 - TEST PIT LOCATIONS TAKEN FROM HEALTH DEPT. RECORDS DATED 7-19-77.
 - I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.
 - ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - TOTAL HOUSE ± 1644 SF INCLUDING NEW ADDITION

By: *Richard W. Gault*

- LEGEND**
- + EXISTING WELLS
 - TEST PIT LOCATIONS PASS
 - ▭ PRIVATE SEWAGE EASEMENT
 - PERCOLATION WELL SITE
 - ▨ PROPOSED NEW ADDITION

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS:

William J. Peter Bellman
 HEALTH OFFICER

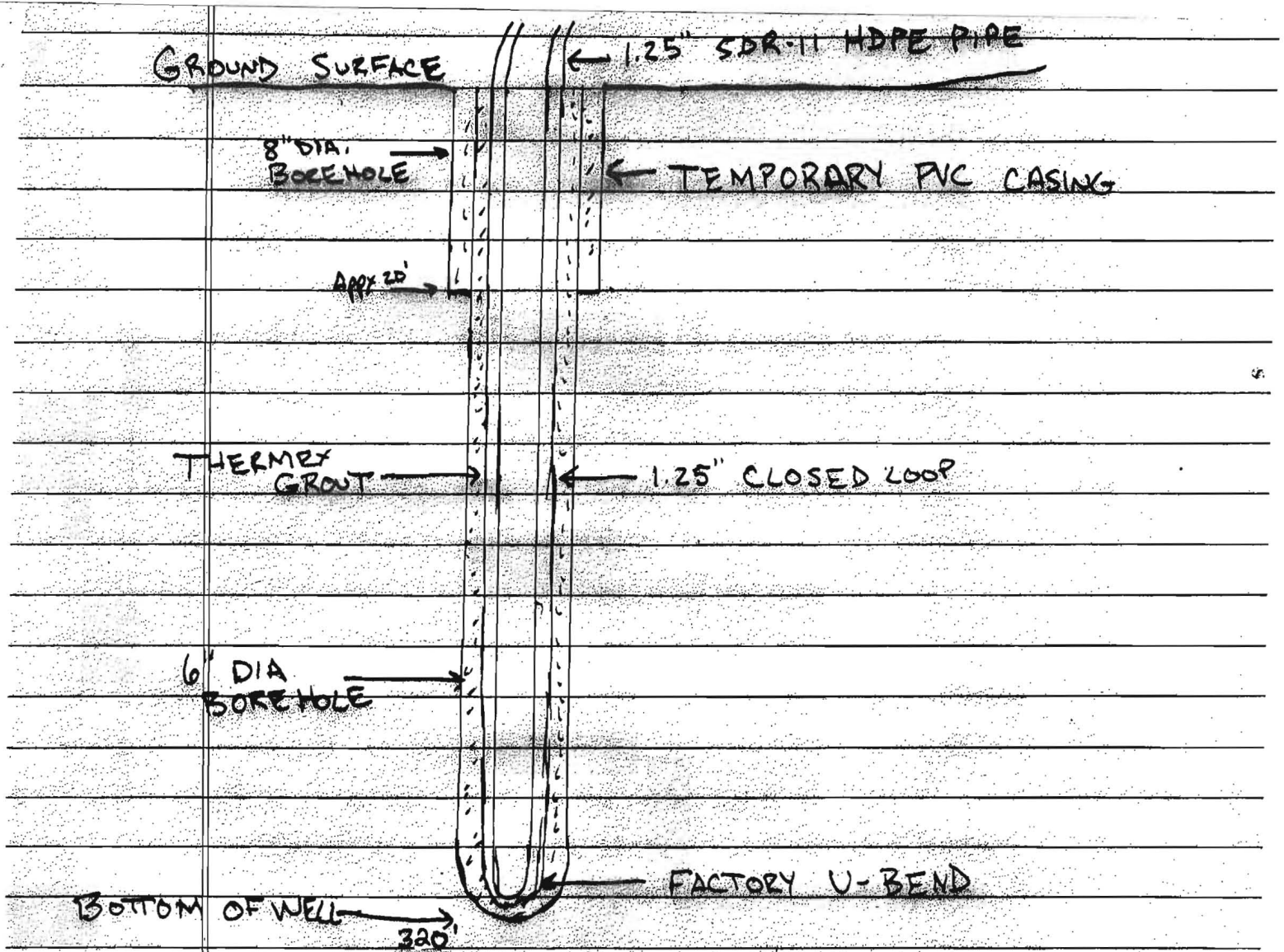
PLAN UPDATES
 PREPARED 4/1/07
 BY OWNER:
 ALAN D. SINGER
Richard W. Gault
 7303

Well site OK
 7/16/14

Connelly Geothermal

Partnering with Mother Earth

Geothermal Closed Loop - 1204 Adgate Court



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.

B 1 26355

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 554532

STATE PERMIT NUMBER

Ho -14 -0056 fill in this form completely

Date Received (APA) 07/08/14

OWNER INFORMATION

Miller Sarah Last Name Owner First Name 1204 Adgate Ct. Street or RFD Woodbine MD 21797 Town State Zip

LOCATION OF WELL

Howard Lisbun Acres 23 SUBDIVISION SECTION 1 LOT 1 Woodbine 52 NEAREST TOWN

DRILLER INFORMATION

Samuel A. Connelly MWD 572 Driller's Name License No. Connelly + Associates, Inc. Firm Name 260 Interstate Ct. Frederick, MD 21704 Address Samuel A. Connelly 7/2/14 Signature Date

SOURCES OF DRILLING WATER

1. private 2. 3.

1204 Adgate Ct STREET ADDRESS ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH SOUTH DISTANCE FROM ROAD 100 FT ENTER FT OR MI TAX MAP: 08 BLK: PARCEL 351

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)

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 (2 geo bores)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S DATE ISSUED 07/16/2014 CO SIGNATURE EXP. DATE 7/16/15

APPROXIMATE DEPTH OF WELL 320 FEET

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)

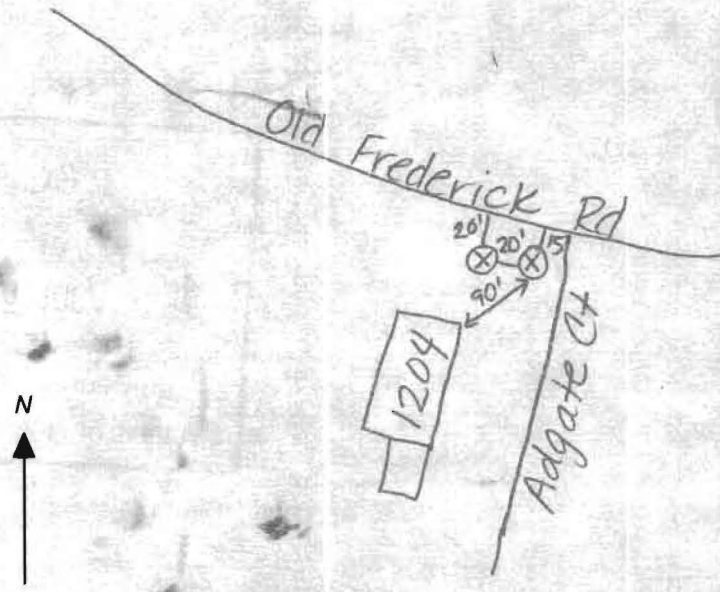
Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER PERMIT No. Ho -14 -0056

SPECIAL CONDITIONS

Wells must be grouted from bottom to top

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





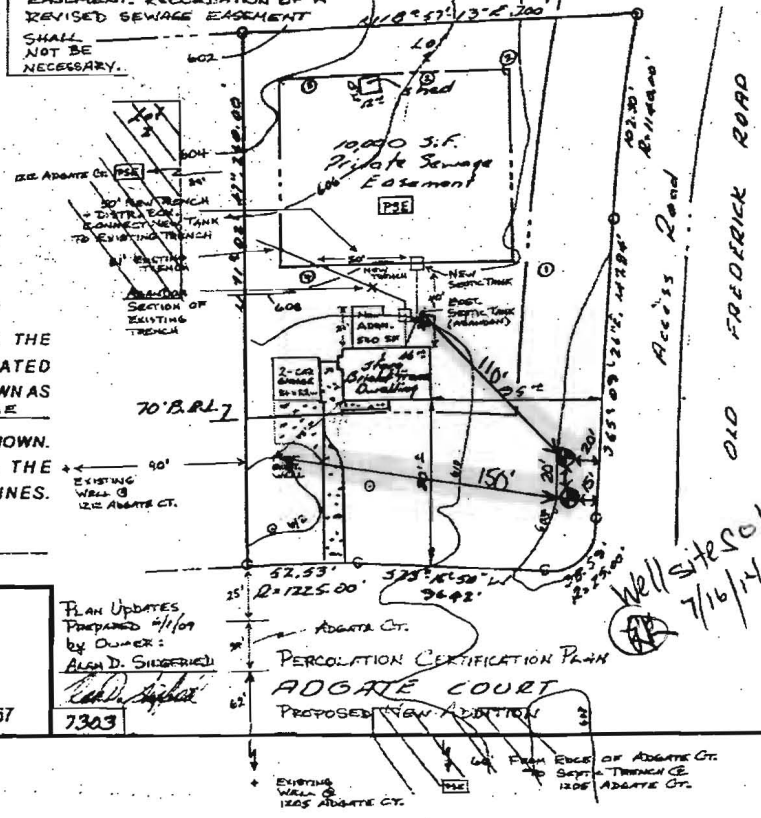
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 - ▭ PRIVATE SEWAGE EASEMENT
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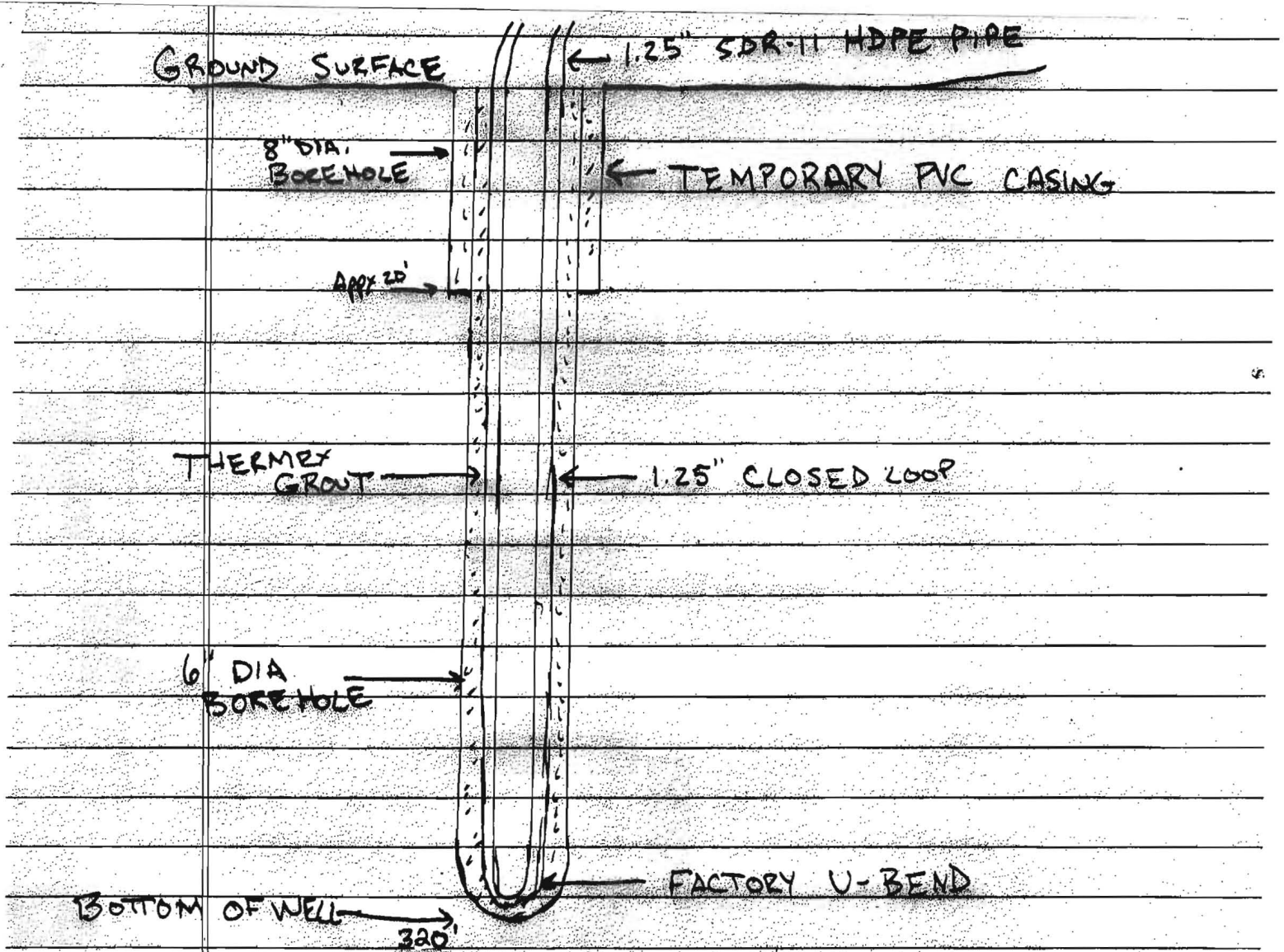
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Well site OK
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