



HOWARD COUNTY HEALTH DEPARTMENT

57490

DATE 12/21/15

WS

Received From

Long Green Energy

PHONE #

443 372-5259

For

Well Permit / 13420 Triadelphia

CASH

CHECK

NO.

2050

One hundred sixty

Dollars

\$

160100

Received By

A. King

B 1 35150

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

Ho - 15 - 0191 fill in this form completely

please type

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13
15 Last Name Owner First Name 34
13420 Triadelphia Mill Rd
Clarksville MD 21029

B 3

LOCATION OF WELL

Howard
8 COUNTY 21
Fenton Estates
23 SUBDIVISION 42
SECTION 44 46 LOT 48 50
Clarksville
52 NEAREST TOWN 71

DRILLER INFORMATION

Edward Gross MWD 580
Driller's Name 76 License No. 81
Long Green Drilling
Firm Name
12238 Long Green Pike SA Glen Arden
Address 21057
Signature Date 12/23/15

B 4

SOURCES OF DRILLING WATER

1. Public
2.
3.

13420 Triadelphic Mill
11 STREET ADDRESS 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
DISTANCE FROM ROAD 190 FT
ENTER FT OR MI 38 39
TAX MAP: 34 BLK: 3 PARCEL 305

B 2

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 8 12
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
I INDUSTRIAL, COMMERCIAL, DEWATERING
P PUBLIC WATER SUPPLY WELL
T TEST, OBSERVATION, MONITORING
O OPEN LOOP GEOTHERMAL
C CLOSED LOOP GEOTHERMAL 3x Geothermal

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard
COUNTY NAME COUNTY NO. 13
STATE SIGNATURE INSERT S
DATE ISSUED 12/23/2015
CO SIGNATURE R.R.T. EXP. DATE 12/23/16

APPROXIMATE DEPTH OF WELL 320 FEET

APPROXIMATE DIAMETER OF WELL NEAREST INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTARY AIR-PERCUSION ROTARY (Hydraulic Rotary)
CABLE Reverse-ROTARY Drive-POINT
other

REPLACEMENT OR DEEPEMED 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
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 DEEPEMED 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-15-0191

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.



SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.

all wells must be grouted from bottom to top.

C 1 37005

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 (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 01 20 16

DATE WELL COMPLETED MM DD YY 01 13 16

Depth of Well 22 320 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-15-0191

OWNER, WELL SITE ADDRESS, SUBDIVISION, SECTION, LOT, TOWN

WELL LOG table with columns for DESCRIPTION, FEET (FROM, TO), and check if water bearing. Includes entries like 'Moist shiff Reddish Brown fine sandy micaceous silt'.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS (16), NO. OF POUNDS (500), GALLONS OF WATER (384), DEPTH OF GROUT SEAL (0' to 320').

CASING RECORD: MAIN CASING TYPE (60-70), Nominal diameter top (main) casing, Total depth of main casing.

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

SCREEN RECORD: screen type or open hole (ST, BR, HO, PL, OT), DEPTH (nearest ft.)

NUMBER OF UNSUCCESSFUL WELLS: WELL HYDROFRACTURED (Y)

CIRCLE APPROPRIATE LETTER: A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION"

DRILLERS LIC. NO. 1 MWD 580, DRILLERS SIGNATURE, LIC. NO. 1 D

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

C 2 DEPTH (nearest ft.) table with rows for E, A, C, H, S, R, E, N and columns for slot size and diameter of screen.

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 Q

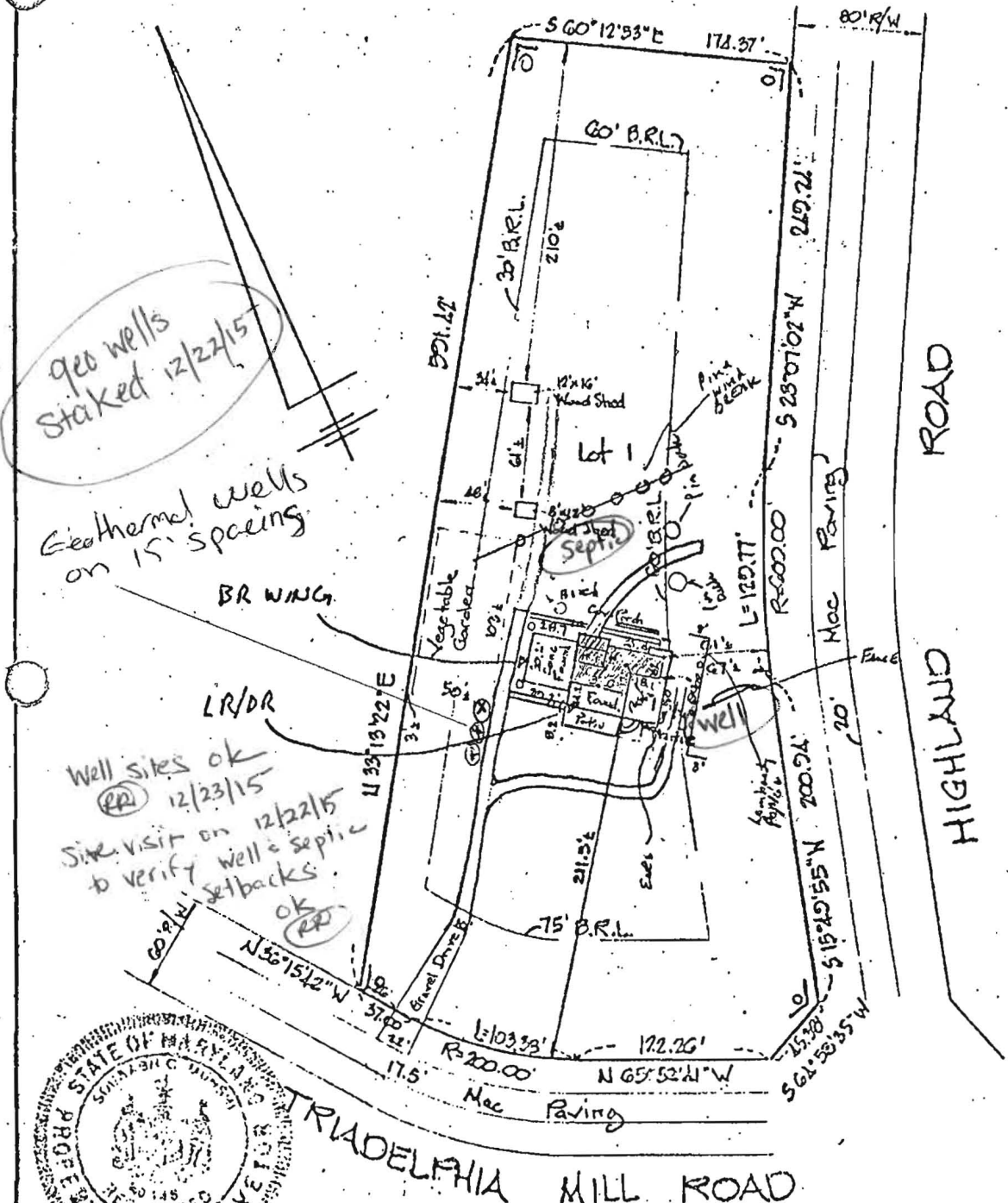
C 3 PUMPING TEST: HOURS PUMPED (8 9), PUMPING RATE (11 15), METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL (distance from land surface) BEFORE PUMPING (17 20) WHEN PUMPING (22 25), TYPE OF PUMP USED (A, P, T, C, R, O, J, S)

PUMP INSTALLED: DRILLER INSTALLED PUMP (YES NO), TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29, CAPACITY: GALLONS PER MINUTE (31 35), PUMP HORSE POWER (37 41), PUMP COLUMN LENGTH (43 47), CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)

LATITUDE 39.216250 LONGITUDE 76.977666 (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.

Survey of property known as Lot 1, -plat of "Fenton Estates" - Lots 1 and 2, and recorded among the Land Records of Howard County in Plat Book C.M.P.#4435.



geo wells staked 12/22/15

Geothermal wells on 15' spacing

BR WING

LR/DR

Well sites OK (RP) 12/23/15

Site visit on 12/22/15 to verify well & septic setbacks

PHILADELPHIA MILL ROAD

HIGHLAND ROAD

Note: CROSS HATCHED EXISTING STRUCTURE



This is to certify that the improvements indicated hereon are located as shown. This is not a property line survey and should not be used as such

Barbara Munchi

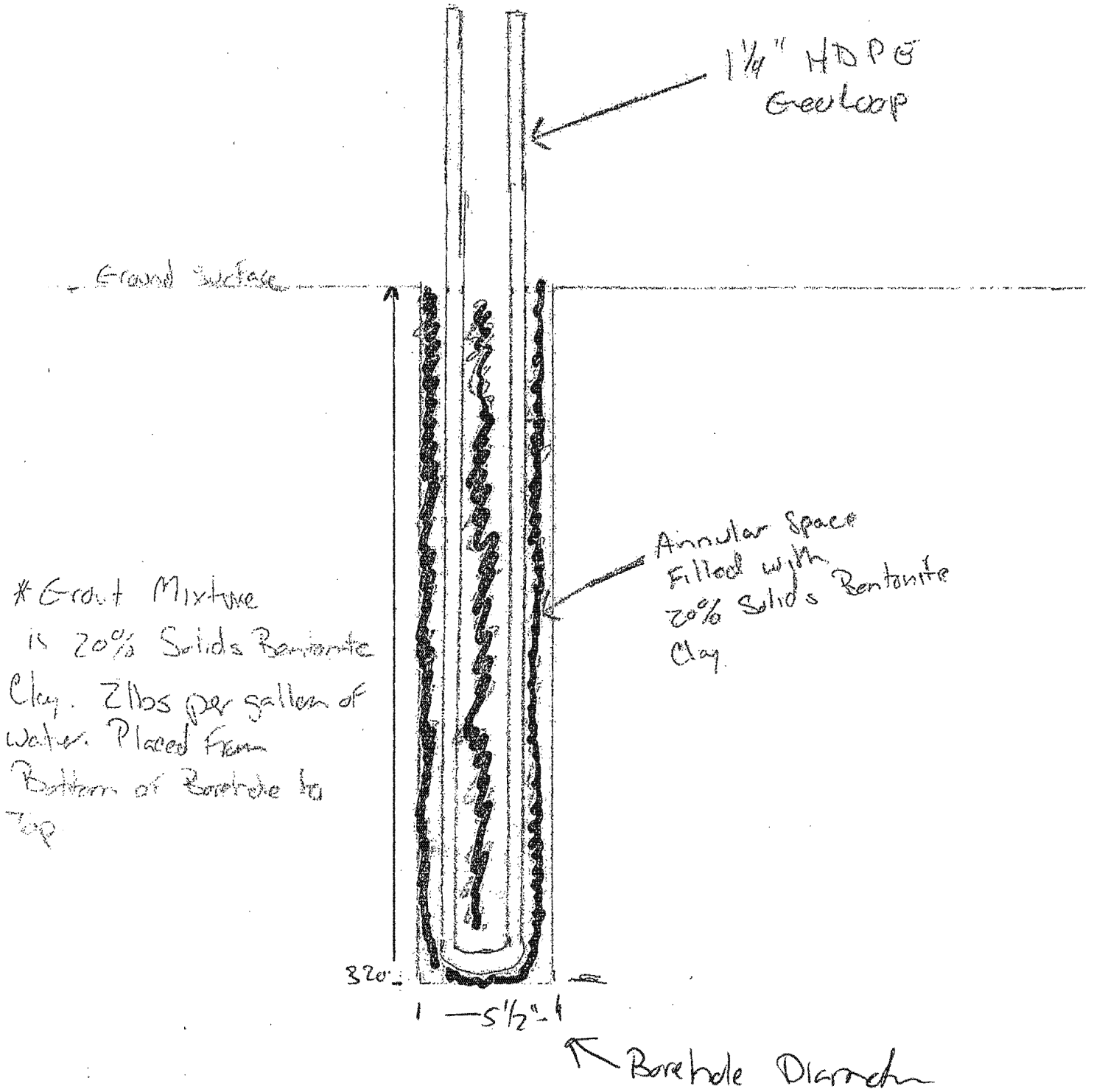
DON LYNCH ASSOC., INC.
4907 HARFORD ROAD
BALTIMORE, MD. 21214

Updated

Scale: 1" = 100'

Date: 1/12/83

Bore hole Cross Section



FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
1/7/16	<p>- Site inspection contractor onsite (Ed Gross) - Long Green, he stated that he hit water @ 84' and had to stop drilling for fear of collapse. He did not have enough adequate casing to make it down to the fracture to seal the water. He stated that he had to leave the site to get more casing and I told him that I'd come back. - I came back in the Afternoon and no one was onsite and the drill boom was down and there was casing in the hole and it was uncovered. I call Ed and he informed me that he wasn't coming back until tomorrow. I requested that he cover the open casing hole when he leaves the job for the night. I found a bucket onsite and covered the casing. - (RR)</p>
1/8/16	<p>- Site visit contractor onsite 82' of casing in hole to finish first well. ^{Geo} Loop not delivered yet, therefore no grouting today. Contractor will protect opening of well before leaving site once the first well is completed. (RR)</p>
1/11/16	<p>- Site inspection contractor onsite. grouting of first well being completed during inspection and drilling of 2nd well being conducted. Approx 82' of casing dropped into hole to help seal off fracture during drilling ^{and grouting} / drilling to continue for 2 more days.</p>
1/12/16	<p>- Site inspection contractor onsite - 3rd well being drilled @ about 120' w/ 80 ft of casing during the drilling. 1st well grouted, 2nd well drilled but not grouted yet. drilling to continue tomorrow. (RR)</p>
1/13/16	<p>- Site inspection contractor on site, 2nd well grouted, 3rd well drilled and grouting almost completed. They needed to fill in about 20' more on top but ran out of bentonite. Said they get more and top it off. Contractor will →</p>

