

C 1 29921 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 08 22 15

DATE WELL COMPLETED MM DD YY 07 11 15

Depth of Well 250' (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 170-15-0052

OWNER: Thrus last name, Karen first name; WELL SITE ADDRESS: 10717 Graetech Rd; TOWN: Laurel; SUBDIVISION: ; SECTION: ; LOT: 17

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes handwritten entries: 'Mud to Well Bore, met to Fine sandy silt w/ mica + Small cobbles', 'Coarse quartz gravel', 'Weathered Rock', 'Rock', '2x Geotexture'.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL: CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS: 10, NO. OF POUNDS: 500, GALLONS OF WATER: 240, DEPTH OF GROUT SEAL: 250'.

CASING RECORD: MAIN CASING TYPE: STEEL (ST), Nominal diameter top (main) casing: 60 inch, Total depth of main casing: 61 feet.

OTHER CASING (if used) table with columns: diameter inch, depth (feet) from, to.

SCREEN RECORD: screen type or open hole: STEEL (ST), DEPTH (nearest ft.): 29.

NUMBER OF UNSUCCESSFUL WELLS: ; WELL HYDROFRACTURED: YES (Y)

CIRCLE APPROPRIATE LETTER: A (Abandoned and sealed), 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...

DRILLERS LIC NO. MJD 580; DRILLERS SIGNATURE; LIC. NO. D

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

Table with columns: E A C H S C R E E N, 1 2 3, 8 9 11 15 17 21, 23 24 26 30 32 36, 38 39 41 45 47 51. Includes SLOT SIZE and DIAMETER OF SCREEN.

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: 8 9; PUMPING RATE: 11 15 gal. per min.; TYPE OF PUMP USED: piston (P); TYPE OF PUMP INSTALLED: piston (P).

PUMP INSTALLED: DRILLER INSTALLED PUMP: YES; TYPE OF PUMP INSTALLED PLACE: 29; CAPACITY: 31 35 GALLONS PER MINUTE; PUMP HORSE POWER: 37 41; PUMP COLUMN LENGTH: 43 47; CASING HEIGHT: 49 above LAND SURFACE.

LATITUDE 39.152283; LONGITUDE 76.885766; (DEFAULT COORD. WGS 84)

NOTES:

B 1	35125	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 555820	STATE PERMIT NUMBER HD-15-0052 <small>70¹ fill in this form completely 79</small>
------------	--------------	--------------------------------	---	---

OWNER INFORMATION

Date Received (APA) 04/21/15

8 MM DD YY T3

15 Last Name Therius Owner First Name Karen 34

36 Street or RFD 10717 Graealach Rd 55

57 Town Laurel MD State MD Zip 20723 76

LOCATION OF WELL

B 3

8 COUNTY Howard 21

23 SUBDIVISION _____ 42

SECTION 17 LOT 17

44 46 48 50

52 NEAREST TOWN _____ 71

DRILLER INFORMATION

Driller's Name Edward Gross MW D 580 76 License No. 81

Firm Name Long Green Drilling 410-409-2260

Address 2109 Emory Park Rd #107 Edgewater 21040

Signature _____ Date 4/19/15

SOURCES OF DRILLING WATER

B 4

11 10717 Graealach Rd 30
STREET ADDRESS

1. Public

2. _____

3. _____

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH
 WEST
 EAST
 SOUTH

34 100 37
DISTANCE FROM ROAD
ENTER FT OR MI 38 39

TAX MAP: 41 BLK: 23 PARCEL 249

WELL INFORMATION

B 2

1 2

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)

22 I INDUSTRIAL, COMMERCIAL, DEWATERING

P PUBLIC WATER SUPPLY WELL

T TEST, OBSERVATION, MONITORING

O OPEN LOOP GEOTHERMAL

C CLOSED LOOP GEOTHERMAL 2x Geothermal

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

COUNTY NAME Howard COUNTY NO. 17

STATE SIGNATURE _____ INSERT S → 41

DATE ISSUED _____

43 MM DD YY 48 CO SIGNATURE _____ EXP. DATE 5/6/16

5/6/15

APPROXIMATE DEPTH OF WELL 240' FEET
24 28

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 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

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

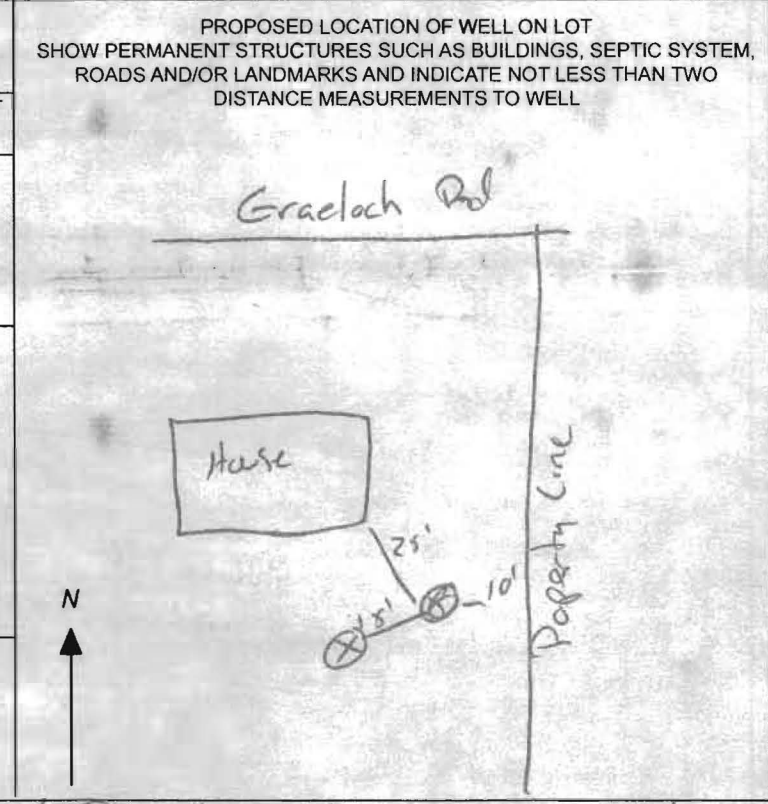
D THIS WELL WILL DEEPEM AN EXISTING WELL

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. HD-15-0052
70 71 72 73 74 75 76 77 78 79



SPECIAL CONDITIONS *All wells must be grouted from bottom to top. Call HD at least 24 hrs prior to grouting.

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

PARK, DRAINAGE & UTILITY ESMT.

111.77'

N 76°12'35" W

5' UTILITY EASEMENT

199.00'

206.78'

LOT 17
 BLOCK 7
 0.519 AC.

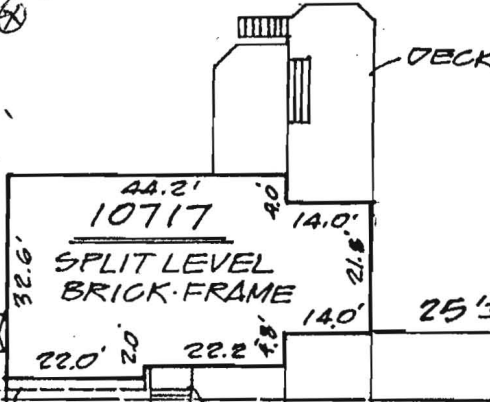
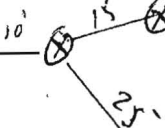
Exp. Plan
Kathleen A. Shew

Well sites OK
 5/6/15 RP

EcoThermal
 Loops

18

10' WALKWAY
 S 17°46'50" W



N 17°46'50" E

10

50'

52'±

1.0' OH STOOP

CONC. DRIVE

BRL



S 72°13'10" E
GRAELOCH ROAD

111.50'

93395

Property shown hereon is not in a flood plain per existing records unless otherwise noted.

SCALE: 1" = 30'
 RECORDED IN: 8
 PLAT BOOK: 35
 PLAT:

HOUSE LOCATION
 LOT 17 BLOCK 7
 SECTION FIVE
 HAMMOND PARK
 HOWARD COUNTY, MD

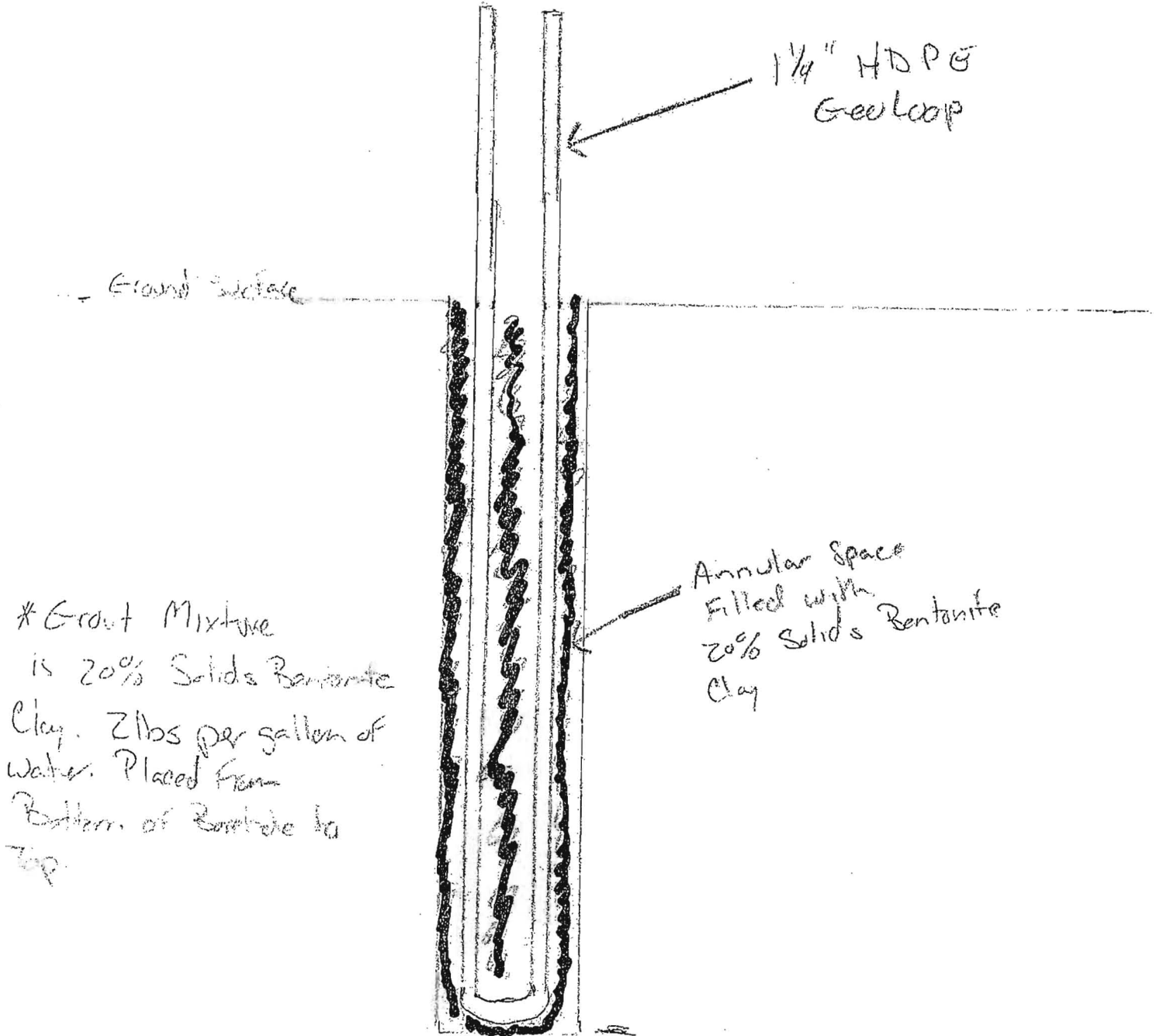
NOTE: This drawing is not intended to establish property lines nor are the existence of corner markers guaranteed. All information shown hereon taken from the land records of the county in which the property is located. Do not attempt to erect fences from information contained on this drawing.

I hereby certify that to the best of my knowledge and belief, the position of all the existing improvements on the above described property has been established by accepted field practices.

Date: March 8, 1993

Jefferson D. Lawrence
 JEFFERSON D. LAWRENCE,
 PROFESSIONAL LAND SURVEYOR #5216

Bore hole Cross Section



* Grout Mixture
is 20% Solids Bentonite
Clay. 2 lbs per gallon of
water. Placed from
Bottom of Borehole to
Top.

DEPARTMENT OF PUBLIC WORKS OF HOWARD COUNTY

1-77-927

BUREAU OF WATER AND SEWER

Date June 15, 1977

Meter Setting	Inside	
	Outside	<input checked="" type="checkbox"/>

WATER ACCOUNT SET UP 3/23/78
 RECORD OF DATE INITIAL DR

INSTALLATION OF WATER CONNECTION Installed by TAISA

Applicant Brantly Development Corp.	Plumber Crouse	Application Filed For 3/4 tap 5/8" meter	Plumbing Permit No. 1-25-78 5170
--	-------------------	---	-------------------------------------

DATA CONCERNING INSTALLATION

Single On Double with Lot

Date of Tap Installation 6-29-77

Diameter and Kind of Pipe 3/4 Tap Pipe

Length of Connection 45'

Size of Corp. Cock 3/4"

Meter size, Make and No. 3/4 Neptune 00237

Date of Meter Setting 1/19/78

Brief description of Meter Location WALL BOX ON FRONT OF HOUSE

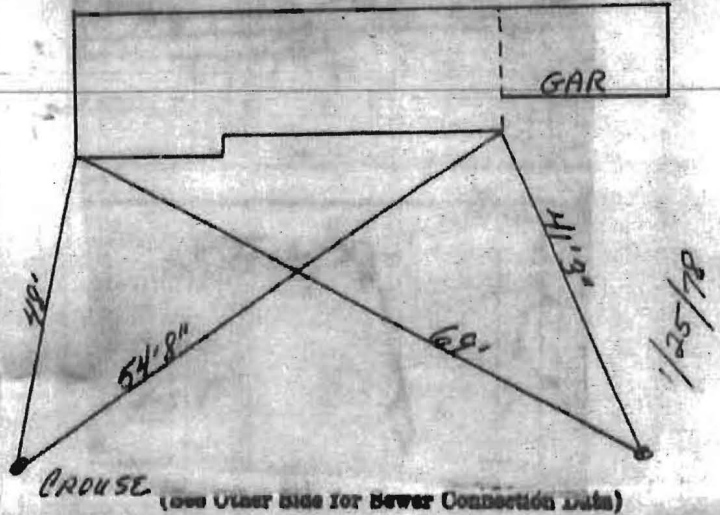
COMPLETION OF OFFICE RECORDS

Meter Card Record _____

Meter Sheet and Completion Record _____

Assessment Record _____

P5170 10717 Graeflock Rd.



Lot 17
 375W
 531 S