

Q1 36206 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 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED DATE MM DD YY

DATE WELL COMPLETED DATE MM DD YY Depth of Well 22 320 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 140-15-0193

OWNER Wang, Rudolf + Charlene, Palm WELL SITE ADDRESS 10238 Globe Dr TOWN Zillicoff City Md SUBDIVISION The Farways SECTION LOT 28

WELL LOG Not required for driven wells

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows include: Topsoil, Brn Sand, Rock, Gng Rock + Brn Rock, Gng Rock.

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 22 NO. OF POUNDS 7100 GALLONS OF WATER 550 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 320 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) diameter inch depth (feet) from to

SCREEN RECORD

screen type or open hole (insert appropriate code below) [ST] [BR] [HO] [PL] [OT]

DEPTH (nearest ft.)

Table with columns: E, A, C, H, S, C, R, E, N. Rows include: SLOT SIZE 1, 2, 3; DIAMETER OF SCREEN (NEAREST INCH) 56, 60; 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) 8 9 PUMPING RATE (gal. per min.) 11 15 METHOD USED TO MEASURE PUMPING RATE 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 (describe below) [J] jet [S] submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or 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 } (nearest foot)

LATITUDE 39.27766 LONGITUDE 76.86322 (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. Failure to provide the info. may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or state law.

B 1 SEQUENCE NO. (MDE USE ONLY) **45623**

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

557486 please type

STATE PERMIT NUMBER

Ho-15-0193

fill in this form completely

Date Received (APA) 12/17/15

OWNER INFORMATION

8 MM DD YY 15

Wang Robert Charonveravut Palin
15 Last Name Owner First Name 34

10238 Globe Drive
36 Street or RFD 55

Ellicott City MD 21042
57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

Howard
8 COUNTY 21

The Fairways
23 SUBDIVISION 42

SECTION 44 46 LOT 28 48 50

Ellicott City
52 NEAREST TOWN 71

DRILLER INFORMATION

C. John Hess MWD 553
78 Driller's Name License No. 81

Allied Environmental Svcs
Firm Name

PO Box 129 Annapolis Junction MD 20701
Address

Signature Date 12/16/15

B 4 SOURCES OF DRILLING WATER

1. Public

10238 Globe Dr.
11 STREET ADDRESS 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 23' 37 DISTANCE FROM ROAD

ENTER FT OR MI 38 39

TAX MAP: 0024 BLK: 1 PARCEL 0742

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)

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 loops

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 COUNTY NAME COUNTY NO.

STATE SIGNATURE INSERT S → 41

DATE ISSUED 12/28/15 CO SIGNATURE EXP. DATE 12/28/16

43 MM DD YY 48

APPROXIMATE DEPTH OF WELL 320 24 28 FEET

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)

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

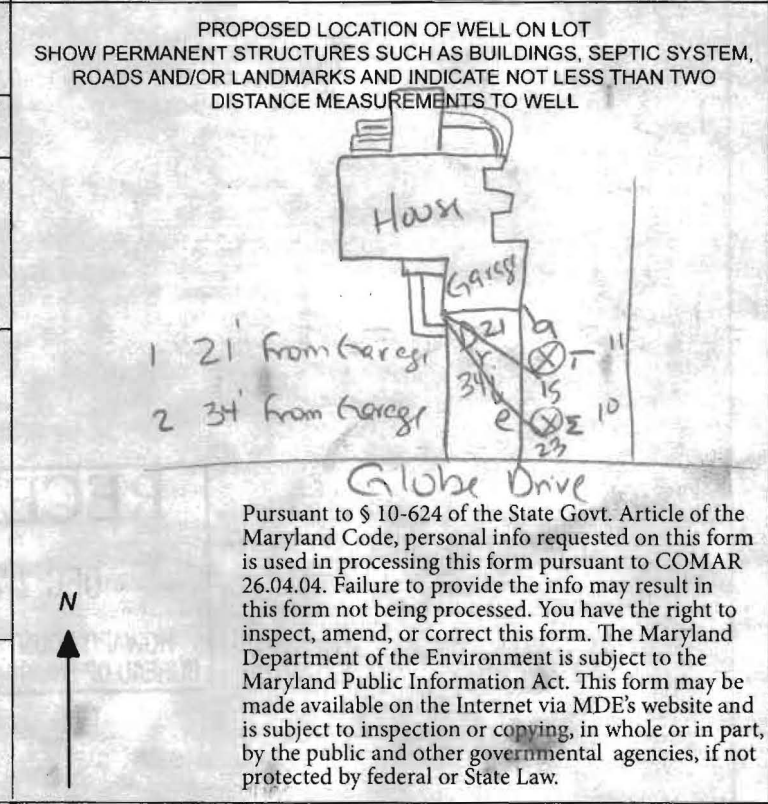
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

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

APPROP. PERMIT NUMBER - - - - - G - - - - -

PERMIT No. Ho-15-0193

70 71 72 73 74 75 76 77 78 79



SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

GRADE

EACH BORE HOLE (TYP)

MINIMUM
HORIZONTAL BOREY
DEPTH 4 FT

FOR CONT.
SEE PLANS

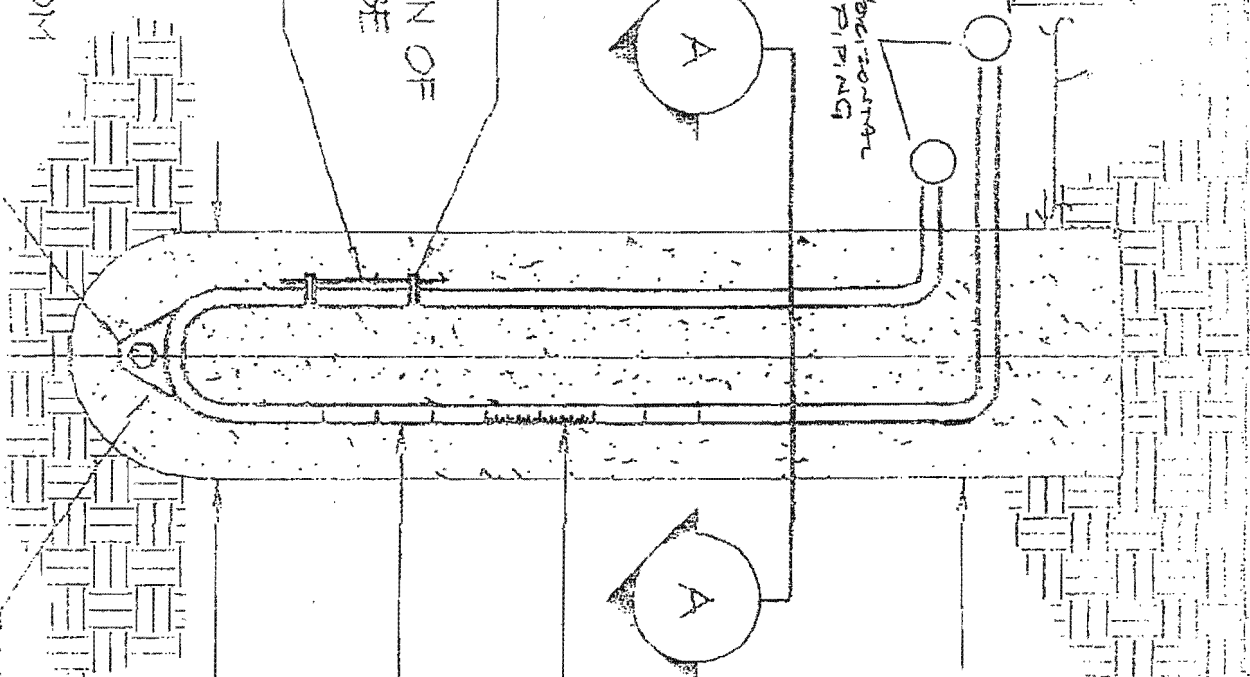
Horizontal
Piping

Bore Depth

TAPE

5 TO 10 FOOT SECTION OF
REBAR TO GUIDE TUBE
INTO BORE DURING
INSTALLATION

ANCHOR FITTINGS TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION



GROUT ENTIRE ANNULAR
SPACE AND VERTICAL
U-TUBE WITH (BENTANITE)
GROUT.

DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U-TUBE
5 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

TYPICAL SOCKET U-TUBE

HOWARD COUNTY GROUTING PROCEDURE

Boreholes will be grouted from the bottom to the top via a tremie pipe and positive displacement pump. Bentonite grout, known as Quik-Grout will be used according to the manufacturer's specifications to achieve a consistency of at least 20% solids (24 gallons potable water/50 lb. sack of grout) and a permeability no more than $2.5 \text{ E}(-08) \text{ cm/sec}$. Grouting will be completed immediately after installing the geothermal loop and no later than twenty-four (24) hours after installing the geothermal loop. Open boreholes/annular space will be protected as necessary to prevent the entry of surface water or pollutants.

Collins, Sarah

From: William Guizzardi <wguizzardi@alliedwells.com>
Sent: Tuesday, December 22, 2015 6:48 AM
To: Collins, Sarah
Subject: Re: 10238 Globe Drive

Sarah,
The clean out above grade is constructed on cast iron,
Thanks
Bill

On Mon, Dec 21, 2015 at 8:17 AM, Collins, Sarah <SCollins@howardcountymd.gov> wrote:

Hi Bill,

I received a well permit application for 10238 Globe Drive. Can you confirm that the sewer line is constructed of one of the materials that allows a 10' setback? (PVC, cast iron, or HDPE)

Are there stakes on site? If so, I can make a site visit today to confirm.

Thanks,

Sarah

Sarah Collins

Environmental Health Specialist

Howard County Health Department

Bureau of Environmental Health

SCollins@howardcountymd.gov

[410-313-6287](tel:410-313-6287)



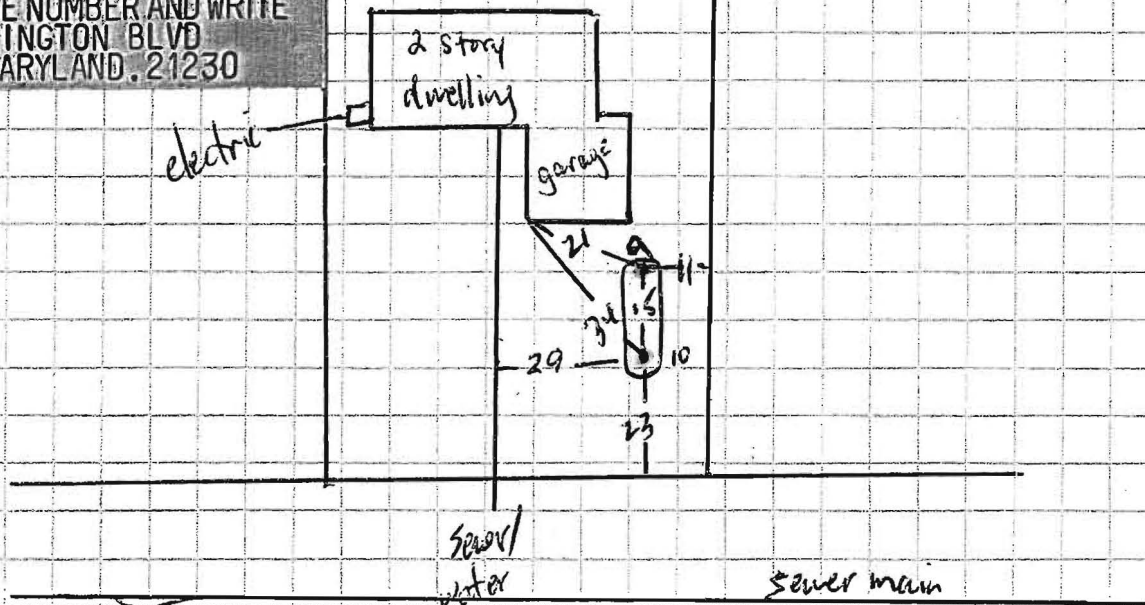
SITE PLAN

Well sites approved
12/26/15 SC

DO NOT REMOVE THIS TAG
DEPARTMENT OF THE ENVIRONMENT
WELL PERMIT NUMBER

H0-15-0193

INFORMATION-GIVE NUMBER AND WRITE
1800 WASHINGTON BLVD
BALTIMORE MARYLAND 21230



10238 Globe Dr
Ellicott City Md

Sediment Control Protocol: silt fence - may need can if hit water

Distance From House: 9
 From Septic: n/a
 From Sewer: 29 - 50 to main
 From Property Line: 10
 From Street: 23

Trees Nearby: no issues
 Utility Issues: need marked - s/b okay
 Mats Needed: to leave drive
 Access For H/U: to be done by others
 Neighboring Tags: municipal

Comments: _____

Person Completing Form: Guizzardi

139620

Lot Number: 28
Block/Section: -
Plat Reference: C.M.P. No. 6878
Title of Plat: The Fairways, Section 1,
Area 1



Location Drawing

Scale: 1" = 40'

This plat is of benefit to a consumer only insofar as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or refinancing. This plat is not to be relied upon for the establishment or location of fences, garages, buildings, dwellings or other existing or future improvements nor does this plat purport to reflect setbacks or other distances with any specific level of accuracy. This plat does not provide for the accurate identification of property boundary lines, but such identification may not be required for the transfer of title or securing financing or refinancing. The approximate location of the dwelling is shown in relation to the apparent property lines for the property known as

10238 Globe Drive
Howard County, Maryland

William M. Matthews 8/1/06

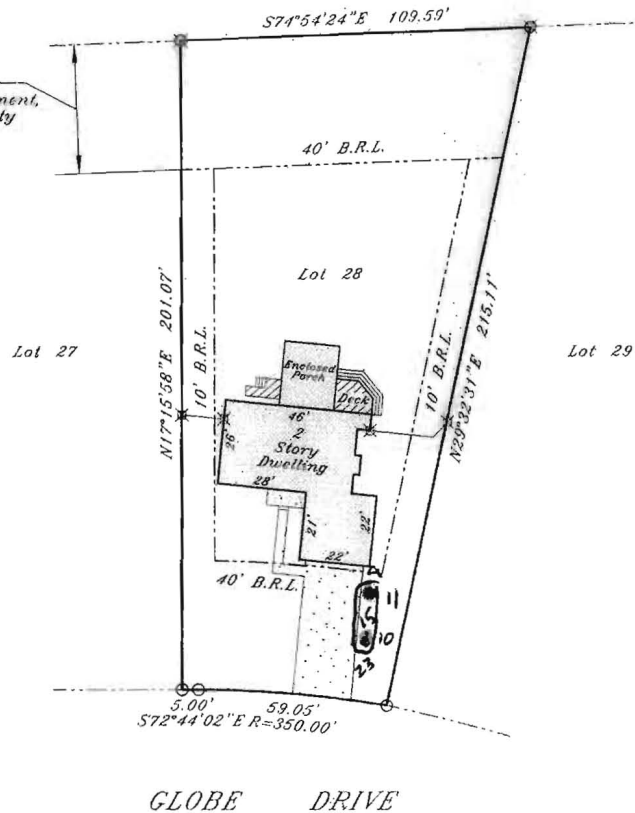
Ruxton Design Corporation

8422 Bellona Lane
Suite 300
Towson, Maryland 21204

410-823-5000
410-823-0115 fax

rdc@ruxtondesign.com www.ruxtondesign.com 06-07-0025

40'
Storm Water Management,
Drainage and Utility
Easement



GLOBE DRIVE