

C1 36994

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 Received MM DD YY 2 2 16

DATE WELL COMPLETED MM DD YY 01 20 16

Depth of Well 22 326 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" OK. 2/17/16 GSE HO-15-0200

OWNER: Lim Chan, Tobin Ivy; WELL SITE ADDRESS: 7120 Rivers Edge; TOWN: Columbia; SUBDIVISION: Riverside; SECTION: ; LOT: 3

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Weathered Rock, Bed Rock, etc.

GROUTING RECORD, CASING RECORD, SCREEN RECORD sections with checkboxes and input fields for materials and dimensions.

PUMPING TEST section with fields for HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, etc.

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

C2 DEPTH (nearest ft.) table with columns for casing diameter and depth.

PUMP INSTALLED section with fields for DRILLER INSTALLED PUMP, TYPE OF PUMP INSTALLED, CAPACITY, PUMP HORSE POWER, etc.

CIRCLE APPROPRIATE LETTER: A WELL WAS ABANDONED AND SEALED, E ELECTRIC LOG OBTAINED, P TEST WELL CONVERTED TO PRODUCTION WELL.

DRILLERS LIC. NO. 1 MWD 572; DRILLERS SIGNATURE; LIC. NO. 1 MWD 973; SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) section with fields for T (E.R.O.S.), W Q, TELESCOPE CASING, LOG INDICATOR, OTHER DATA.

LATITUDE 39.172334; LONGITUDE -76.884380; 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.

B 1  
46409

SEQUENCE NO.  
(MDE USE ONLY)

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL  
5579601 please type

STATE PERMIT NUMBER  
HO-15-0200  
fill in this form completely

Date Received (APA)  
8 MM DD YY 13  
OWNER INFORMATION  
15 Last Name First Name  
7120 Rivers Edge Rd  
36 Street or RFD  
57 Town 70 State 72 Zip 76  
Columbia MD 21044

B 3 LOCATION OF WELL  
8 COUNTY  
21  
23 SUBDIVISION  
42  
SECTION 44 46 LOT 3 48 50  
52 NEAREST TOWN  
Columbia 71

DRILLER INFORMATION  
61 Driller's Name M W D 572  
81 License No.  
Firm Name  
Connelly & Associates, Inc.  
Address  
210 Interstate + Frederick MD 21704  
Signature Date  
Samuel A. Connelly 1/16/16

B 4 SOURCES OF DRILLING WATER  
11 STREET ADDRESS 30  
7120 Rivers Edge Rd  
ON WHICH SIDE OF ROAD  
(CIRCLE APPROPRIATE BOX)  
34 100+ 37  
DISTANCE FROM ROAD  
ENTER FT OR MI 38 39  
TAX MAP: 41 BLK: 11 PARCEL 445

B 2 WELL INFORMATION  
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)  
I INDUSTRIAL, COMMERCIAL, DEWATERING  
P PUBLIC WATER SUPPLY WELL  
T TEST, OBSERVATION, MONITORING  
O OPEN LOOP GEOTHERMAL  
C 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 41  
DATE ISSUED 01/13/16  
43 MM DD YY 48 CO SIGNATURE EXP. DATE

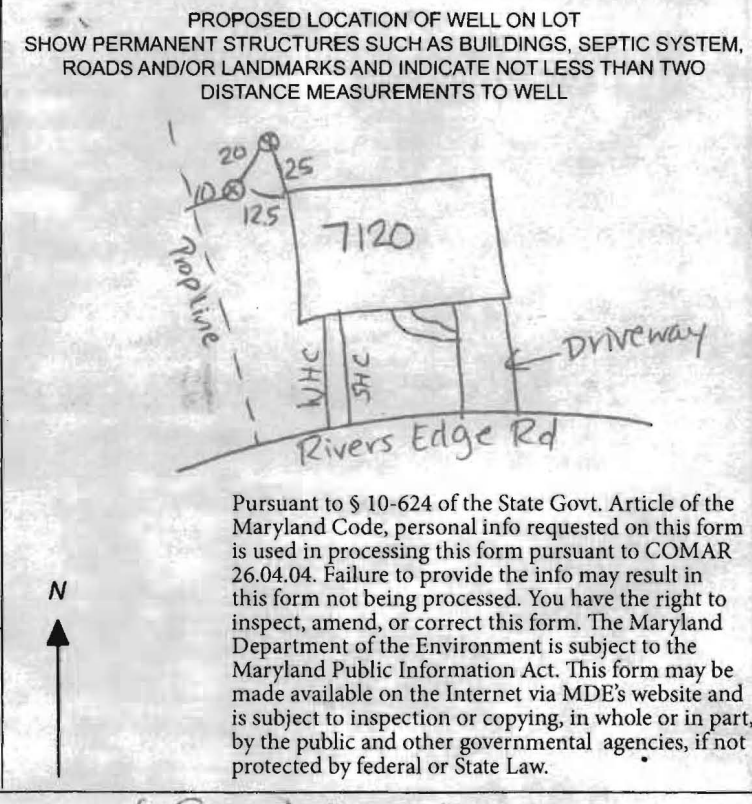
APPROXIMATE DEPTH OF WELL 320 FEET  
24 28

APPROXIMATE DIAMETER OF WELL 6 INCH  
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. HO-15-0200  
70 71 72 73 74 75 76 77 78 79



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.

SPECIAL CONDITIONS  
NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED  
Wells must be grouted from bottom to top.

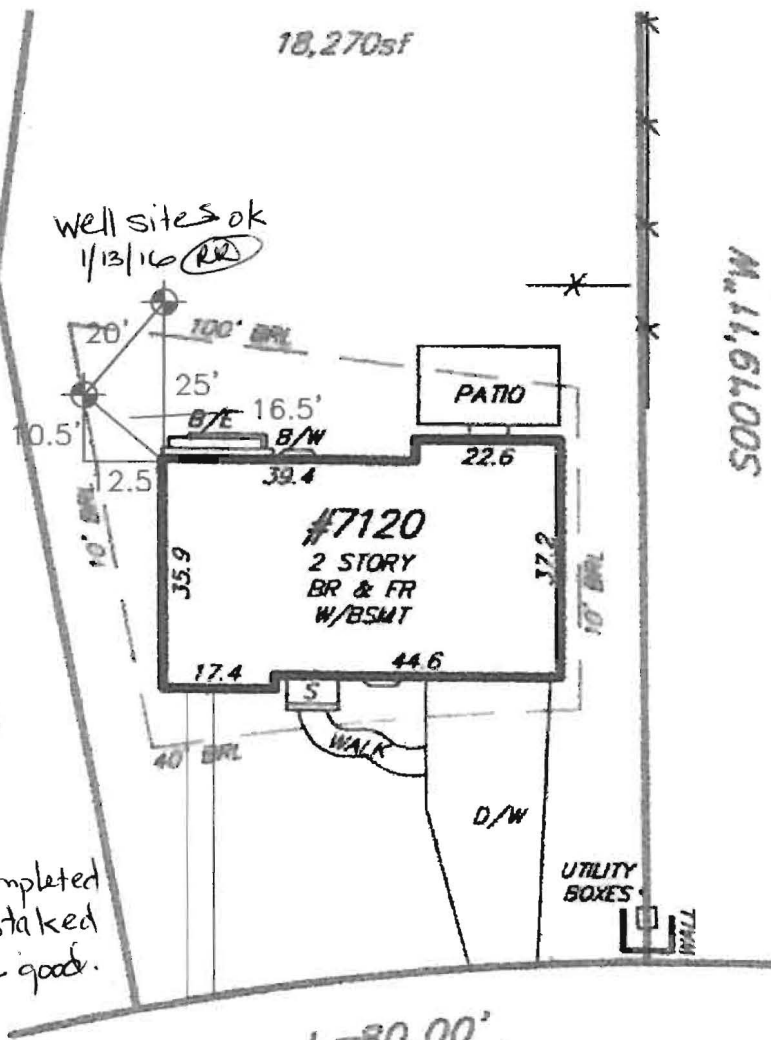
N02 5

18,270sf

Well sites ok  
1/13/16 (RD)

N09°58'49"W  
117.28'

S00°19'11"W  
190.13'



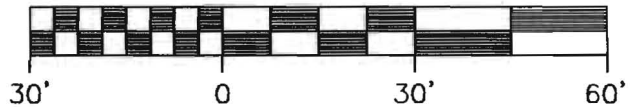
1/13/16 - Site visit completed wells have been staked and setbacks are good.

RIVERS EDGE ROAD

L E G E N D

- PROPOSED GEOTHERMAL WELL LOCATION
- APPROXIMATE SANITARY SEWER LINE
- APPROXIMATE DOMESTIC WATER LINE

GRAPHICAL SCALE



260 Interstate Court (301) 696-8820  
 Frederick, Maryland 21704 (301) 696-0327 fax

LIM RESIDENCE  
 7120 RIVERS EDGE ROAD, COLUMBIA, MARYLAND

PROPOSED GEOTHERMAL WELL  
 LOCATION PLAN

Scale:  
 AS SHOWN

Fig.  
 1

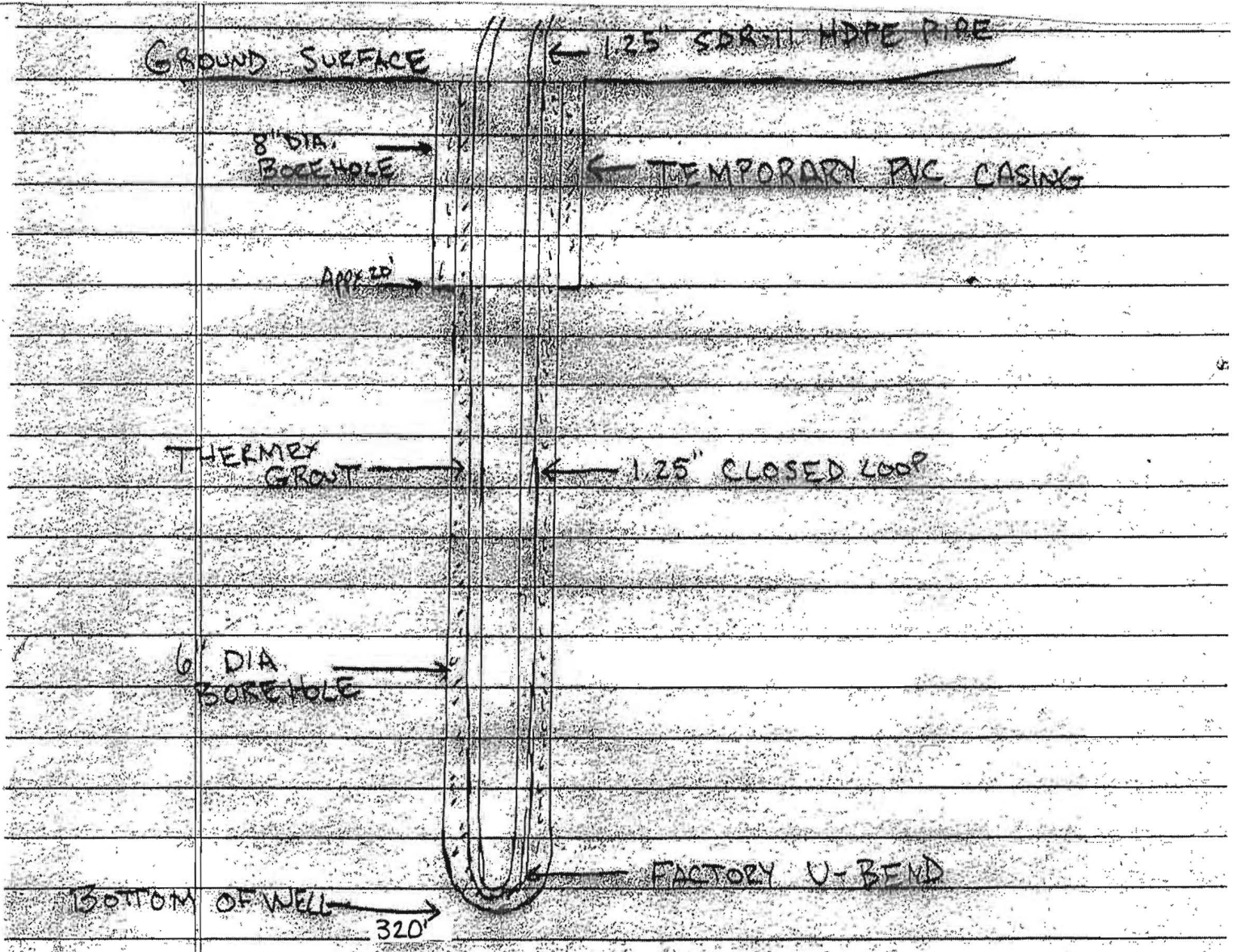
Date:  
 DEC. 2015

Drawn By:  
 J.A.

Checked By:  
 E.S.

Project No.:  
 00000

Geothermal Closed Loop – 7120 Rivers Edge Rd., Columbia, MD



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 tremie method, from bottom to top.