

C1 56904

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 WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE Received MM 08 DD 20 YR 18

MM 07 DD 16 YR 2012

22 320 26 (TO NEAREST FOOT)

OK 8/21/18 SC

HO-17-0307

OWNER Zhang Jiaoguo WELL SITE ADDRESS 3512 Rhode Valley Trail TOWN Ellicott City, MD 21042-375 SUBDIVISION SECTION LOT 7

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, FEET (FROM, TO), check if water bearing. Rows include Moist Brown sandy micaceous silt, Net Dense light Brown M-F silty sand & gravel, Rock, and 2x Geothermal.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (CEMENT CM, BENTONITE CLAY BC) NO. OF BAGS 20 NO. OF POUNDS 7000 GALLONS OF WATER 320 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 320

CASING RECORD

MAIN CASING TYPE (ST, CO, PL, OT) Nominal diameter top-(main) casing (nearest inch) Total depth of main casing (nearest foot)

OTHER CASING (if used)

Table for other casing with columns: diameter inch, depth (feet) from, to

SCREEN RECORD

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

DEPTH (nearest ft.)

Table for depth with columns: A, C, H, S, R, E, N and rows for slot size and diameter of screen

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 66

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) PUMPING RATE (gal. per min.) METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING WHEN PUMPING 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,I,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)

LATITUDE 39.274444 LONGITUDE 76.850555 (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.

DRILLERS LIC. NO. 1 MWD 567 DRILLERS SIGNATURE LIC. NO. 1 D

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

**B 1** SEQUENCE NO. (MDE USE ONLY) **53525** STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type STATE PERMIT NUMBER **HO-17-0307**

**OWNER INFORMATION**  
 Date Received (APA) **06/28/18**  
 8 MM DD YY 13  
 15 Last Name **Zhang** First Name **Jianqiu**  
 36 Street or RFD **3513 Rhode Valley Trail**  
 57 Town **Ellicott City** MD 21042-3757  
 70 State 72 Zip 76

**B 3 LOCATION OF WELL**  
 8 COUNTY **Howard** 21  
 23 SUBDIVISION  
 SECTION 44 46 LOT **7** 48 50  
 52 NEAREST TOWN **Ellicott City** 71

**DRILLER INFORMATION**  
 Driller's Name **Jeff Corran** MWD **567**  
 76 License No. 81  
 Firm Name **Chesapeake Geosystems, Inc.**  
 Address **6720 Fort Smallwood Rd Balt.**  
 Signature **[Signature]** Date **6/22/18**

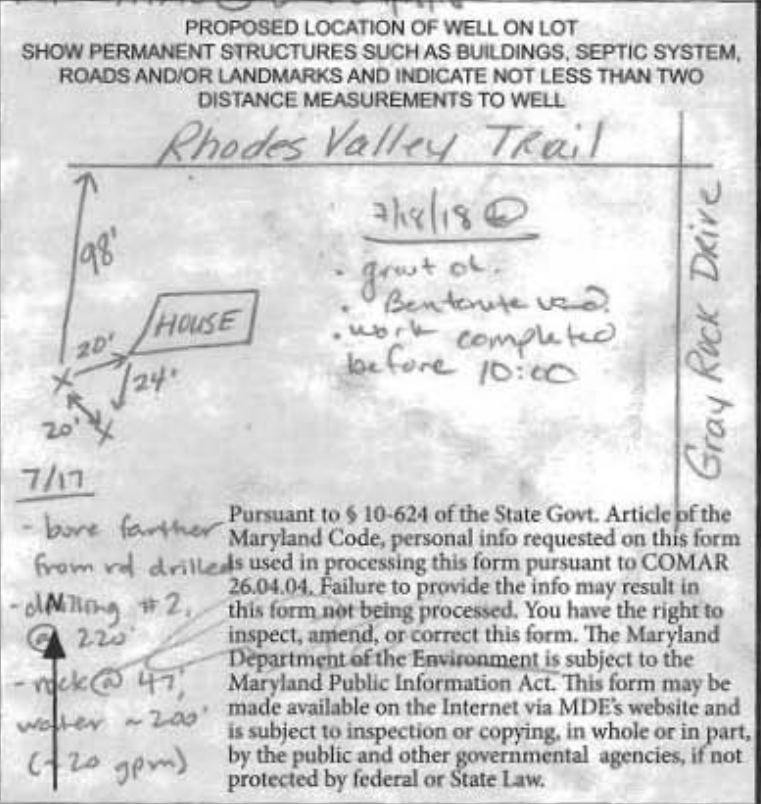
**B 4 SOURCES OF DRILLING WATER**  
 1. **municipal** 11 STREET ADDRESS **3513 Rhode Valley Trail** 30  
 2. 3.  
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
 NORTH N WEST W EAST E SOUTH S  
 34 **98** 37 DISTANCE FROM ROAD FT  
 ENTER FT OR MI 38 39  
 TAX MAP: **24** BLK: **9** PARCEL **114**

**B 2 WELL INFORMATION**  
 APPROX. PUMPING RATE (GAL. PER MIN.) **N/A**  
 8 12  
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **N/A**  
 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 wells**

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**  
 COUNTY NAME **Howard** COUNTY NO. **13**  
 STATE SIGNATURE \_\_\_\_\_ INSERT S →  
 DATE ISSUED **7/12/18** CO SIGNATURE **[Signature]** EXP. DATE **7/12/19**  
 43 MM DD YY 48

APPROXIMATE DEPTH OF WELL **320** FEET  
 24 28  
 APPROXIMATE DIAMETER OF WELL **6** INCH  
 NEAREST



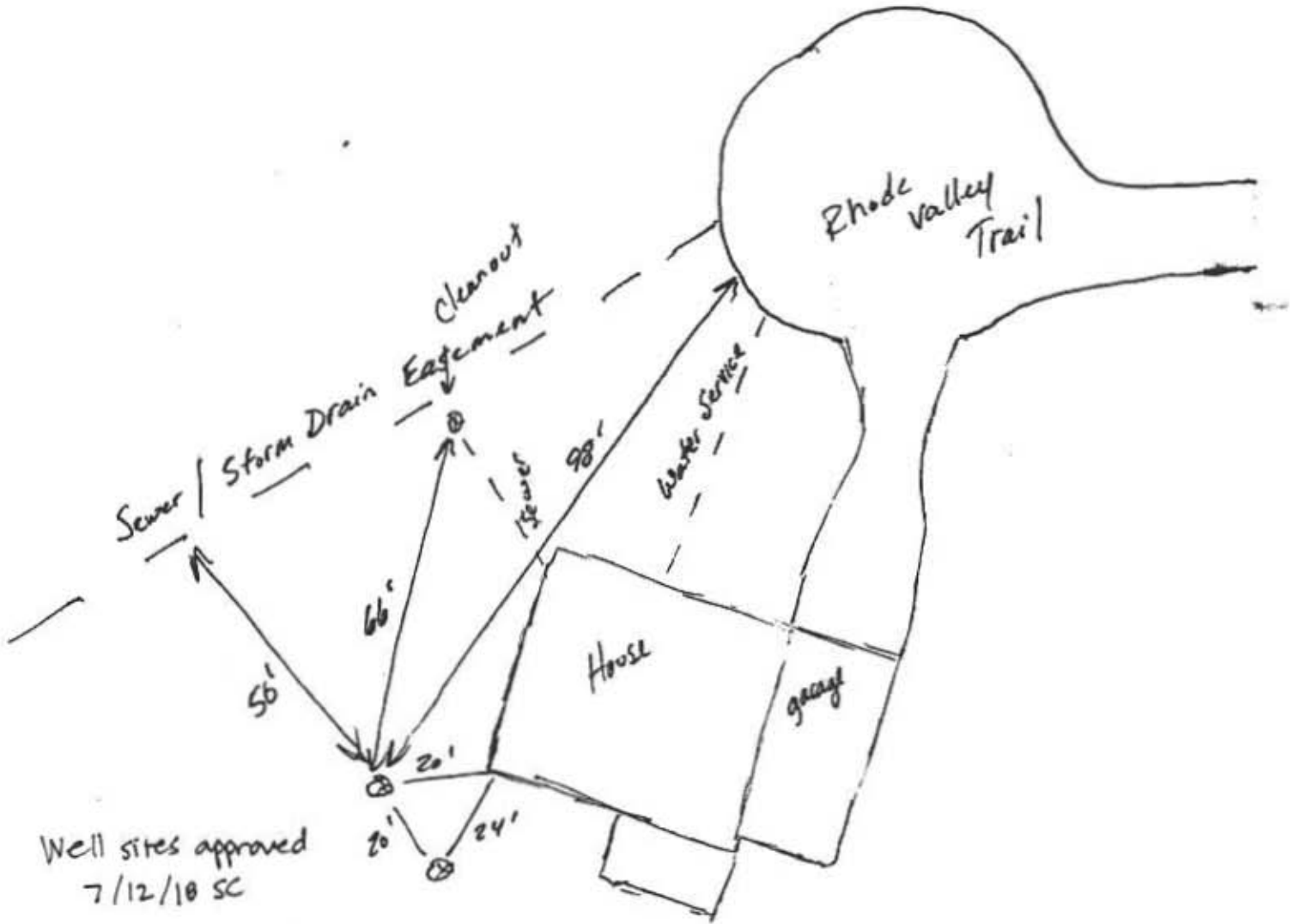
**METHOD OF DRILLING (circle one)**  
 BORED (or Augered) JETTED Jetted & DRIVEN  
 30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)  
 37 CABLE REVERSE-ROTARY DRIVE-POINT  
 other \_\_\_\_\_

**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 DEEPEMED AN EXISTING WELL  
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 \_\_\_\_\_ 52

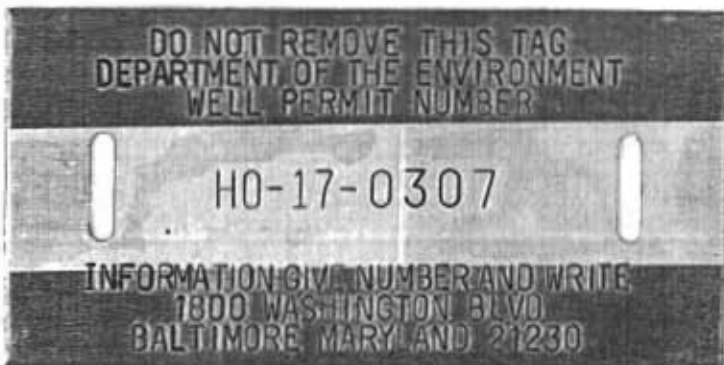
**Not to be filled in by driller (MDE OR COUNTY USE ONLY)**  
 APPROP. PERMIT NUMBER \_\_\_\_\_ G \_\_\_\_\_  
 PERMIT No. **HO-17-0307**  
 70 71 72 73 74 75 76 77 78 79

**SPECIAL CONDITIONS**  
 NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED  
 Drill cuttings must be contained on site + not enter storm drain easement.  
 COUNTY

3513 Rhode Valley Trail  
Ellicott City Md



Well sites approved  
7/12/10 SC



2 wells @ 320' each.  
1.25" closed loops  
w/ Factory V-Bends

# WELL SCHEMATIC FORM

**PERMANENT OUTER CASING (if area contaminated)**

MATERIAL \_\_\_\_\_  
 DIAMETER \_\_\_\_\_  
 LENGTH \_\_\_\_\_  
 DEPTH INTO CONFINING UNIT \_\_\_\_\_

**TUBE CASING (if not regular, single loop)**

ATTACH HORIZONTAL SCHEMATIC \_\_\_\_\_  
 NUMBER OF TUBES PER BOREHOLE \_\_\_\_\_  
 DIAMETER OF TUBES \_\_\_\_\_  
 MATERIAL \_\_\_\_\_  
 SHAPE AND LENGTH \_\_\_\_\_  
 TUBE CONNECTION METHOD \_\_\_\_\_  
 TUBE CONNECTION MATERIAL \_\_\_\_\_

**LOOP PIPE CASING (regular, single loop)**

MATERIAL HDPE? YES  NO   
 DIAMETER 1.25"  
 LENGTH 320'

**GROUT**

MATERIAL Bentonite clay  
 PERMEABILITY  $1 \times 10^{-9}$   
 WATER / GROUT RATIO 24 gal to 50 lbs.  
 PERCENT SOLIDS 20%

TREMIE GROUTED FROM BOTTOM OF BOREHOLE? YES  NO   
 USING A POSITIVE DISPLACEMENT PUMP? YES  NO

DEPTH TO THE BOTTOM OF HOLE 320'  
 DIAMETER OF BOREHOLE 5.75"

WELL ADDRESS  
3513 Rhode Valley Trail  
Ellicott City, MD 21042

LOT NUMBER: \_\_\_\_\_  
 SQUARE NUMBER: \_\_\_\_\_

WELL OWNER:  
Jiangyue Zhang

OWNER ADDRESS:  
3513 Rhode Valley Trail  
Ellicott City MD. 21042

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