

C1 19325 SEQUENCE NO. (MDE USE ONLY)
 1 2 3 6
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

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.
 COUNTY NUMBER

ST/CO USE ONLY DATE Received MM DD YY 10 15 13
 DATE WELL COMPLETED MM DD YY 9-19-13
 Depth of Well 3/5/2014 240 (TO NEAREST FOOT)
 PERMIT NO. FROM "PERMIT TO DRILL WELL" 10-95-2588

OWNER Garmen Alexander
 WELL SITE ADDRESS 13743 N Baaridge Ct TOWN Highland MD
 SUBDIVISION SECTION LOT

WELL LOG
 Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Top Soil	0	1	
Red Soil	1	30	
lt Brn Sand	30	50	
Sandstone	50	55	✓
Brake layer	55	65	
Weathered Rock	65	70	
Grey Rock	70	250	

2 relaxed loops

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 316 NO. OF POUNDS 1800
 GALLONS OF WATER 900
 DEPTH OF GROUT SEAL (to nearest foot)
 from 0 ft. to 240 ft.
 (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below
 ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER
 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
 A C H S I N G

SCREEN RECORD
 screen type or open hole insert appropriate code below
 ST STEEL BR BRASS HO OPEN HOLE
 PL PLASTIC OT OTHER

C 2 DEPTH (nearest ft.)
 1 2
 E 1 8 9 11 15 17 21
 A C H 2 23 24 26 30 32 36
 S C 3 38 39 41 45 47 51
 R E N
 SLOT SIZE 1 2 3
 DIAMETER OF SCREEN (NEAREST INCH)
 56 60
 from to

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
 70 72 74 75 76
 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 (CIRCLE) (YES or NO) YES 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)
 49 50 51

LATITUDE 39.171093
 LONGITUDE 76.967056
 (DEFAULT COORD. WGS 84)
 NOTES: H2 39.171105 76.967076
 H2 H1
 30' front

NUMBER OF UNSUCCESSFUL WELLS:
 WELL HYDROFRACTURED Y N
 CIRCLE APPROPRIATE LETTER
 A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
 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, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.
 DRILLERS LIC. NO. MD 553
 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
 LIC. NO. WRD 098
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

Jay 05-344905

EMERGENCY/TEMP NO. IF ANY

B 1 11244 SEQUENCE NO. (MDE USE ONLY) STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL STATE PERMIT NUMBER HO-95-2588
 1 2 3 6 70 fill in this form completely 79

Date Received (APA) 082913 OWNER INFORMATION
 8 MM DD YY 13
 15 Last Name Garmew Alexander L. Owner First Name 34
 36 Street or R/F 13734 Briaridge Ct 55
 57 Town Highland Md 70 State 72 Zip 76 20777

B 3 LOCATION OF WELL
 8 COUNTY Howard 21
 23 SUBDIVISION Briaridge Subdo 42
 SECTION 4 LOT 4
 44 46 48 50
 52 NEAREST TOWN Highland 71

DRILLER INFORMATION
 76 Driller's Name E John Hess MWD 553 License No. 81
 Firm Name Allied Environmental Svcs
 Address PO Box 129 Annap June md 20701
 Signature [Signature] Date 8/23/13

B 4 SOURCES OF DRILLING WATER
 1. Public
 2.
 3.
 11 STREET ADDRESS 13734 NW Briaridge Ct 38
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH
 WEST SOUTH EAST
 34 200 37 DISTANCE FROM ROAD
 ENTER FT OR MI 38 39
 TAX MAP 0040 BLK: 0010 PARCEL 0312

B 2 WELL INFORMATION
 1 2 APPROX. PUMPING RATE (GAL. PER MIN.) 8 12
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
 COUNTY NAME Howard COUNTY NO. 13
 STATE SIGNATURE _____ INSERT S →
 DATE ISSUED 09/18/2013 CO SIGNATURE [Signature] EXP. DATE 9/18/14
 43 MM DD YY 48 41

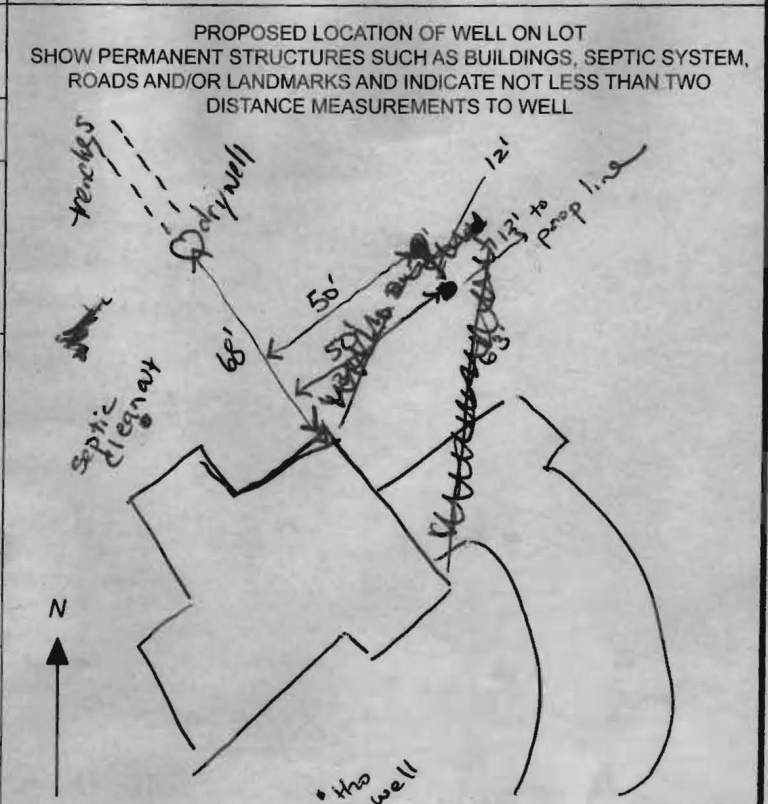
USE FOR WATER (CIRCLE APPROPRIATE BOX)
 DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, DEWATERING
 PUBLIC WATER SUPPLY WELL
 TEST, OBSERVATION, MONITORING
 OPEN LOOP GEOTHERMAL
 CLOSED LOOP GEOTHERMAL 2 Loops

APPROXIMATE DEPTH OF WELL 240 FEET
 24 28
 APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

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

REPLACEMENT OR DEEPEINED 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 DEEPEIN AN EXISTING WELL
 39 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 _____ 52

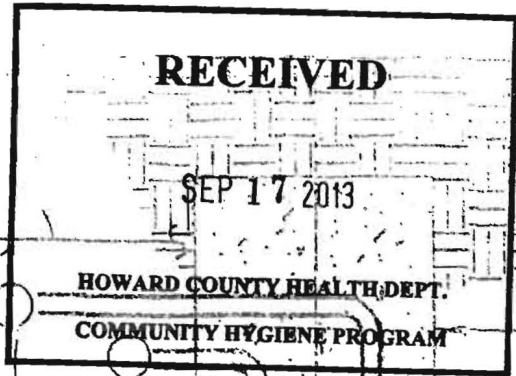
Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROP. PERMIT NUMBER G
 PERMIT No. HO-95-2588
 70 71 72 73 74 75 76 77 78 79



SPECIAL CONDITIONS
 NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED- wells must be grouted from bottom to top
 ORIGINAL

GRADE

EACH BORE HOLE (TYP.)



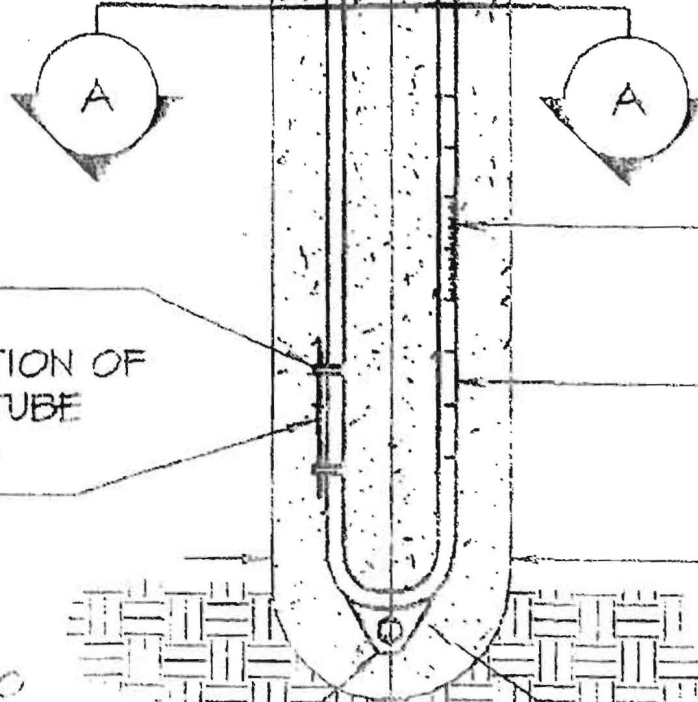
HORIZONTAL BURY
DEPTH 4 FT

FOR CONT.
SEE PLANS

HORIZONTAL
PIPING

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

BORE DEPTH



TAPE

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

DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
6 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

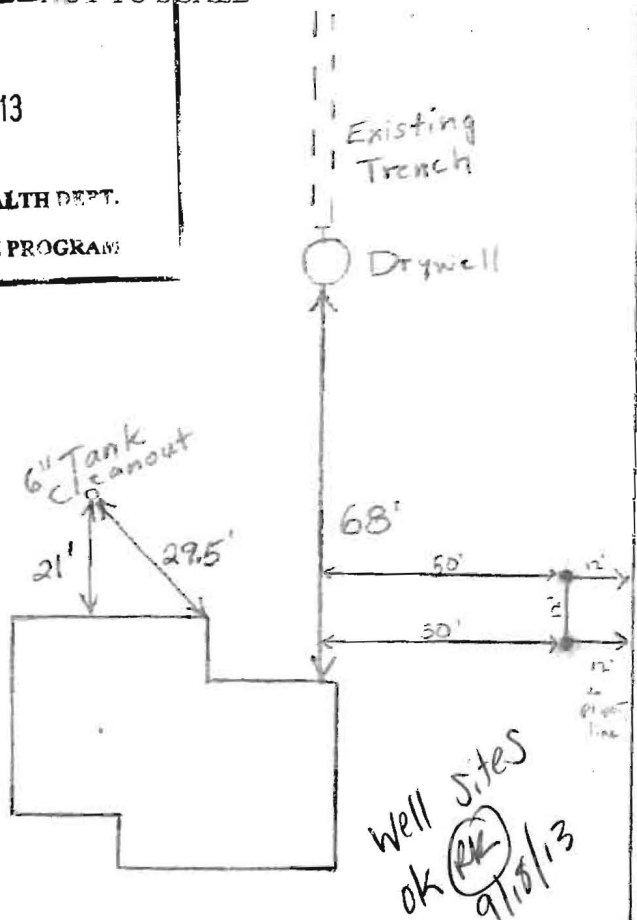
ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

TYPICAL SOURCE U-BEND

RECEIVED NOT TO SCALE

SEP 17 2013

HOWARD COUNTY HEALTH DEPT.
COMMUNITY HYGIENE PROGRAM



ROAD NAME

Briaridge Court

PRE-CONSTRUCTION:

13734 Briaridge Ct
2 geo bores

13734 Briaridge Ct

Highland, MD

PREPARED BY: [Redacted]

PROPERTY ADDRESS: 13734 BRIARIDGE COURT HIGHLAND, MARYLAND 20777

FIELD WORK DATE: 10/1/2012 REVISION HISTORY: [Redacted]

1:501.00M
LOCATION DRAWN:
LOT 4
BRIARIDGE
HOWARD COUNTY, MARYLAND
04/17/2013 SCALE 1/4"=60'

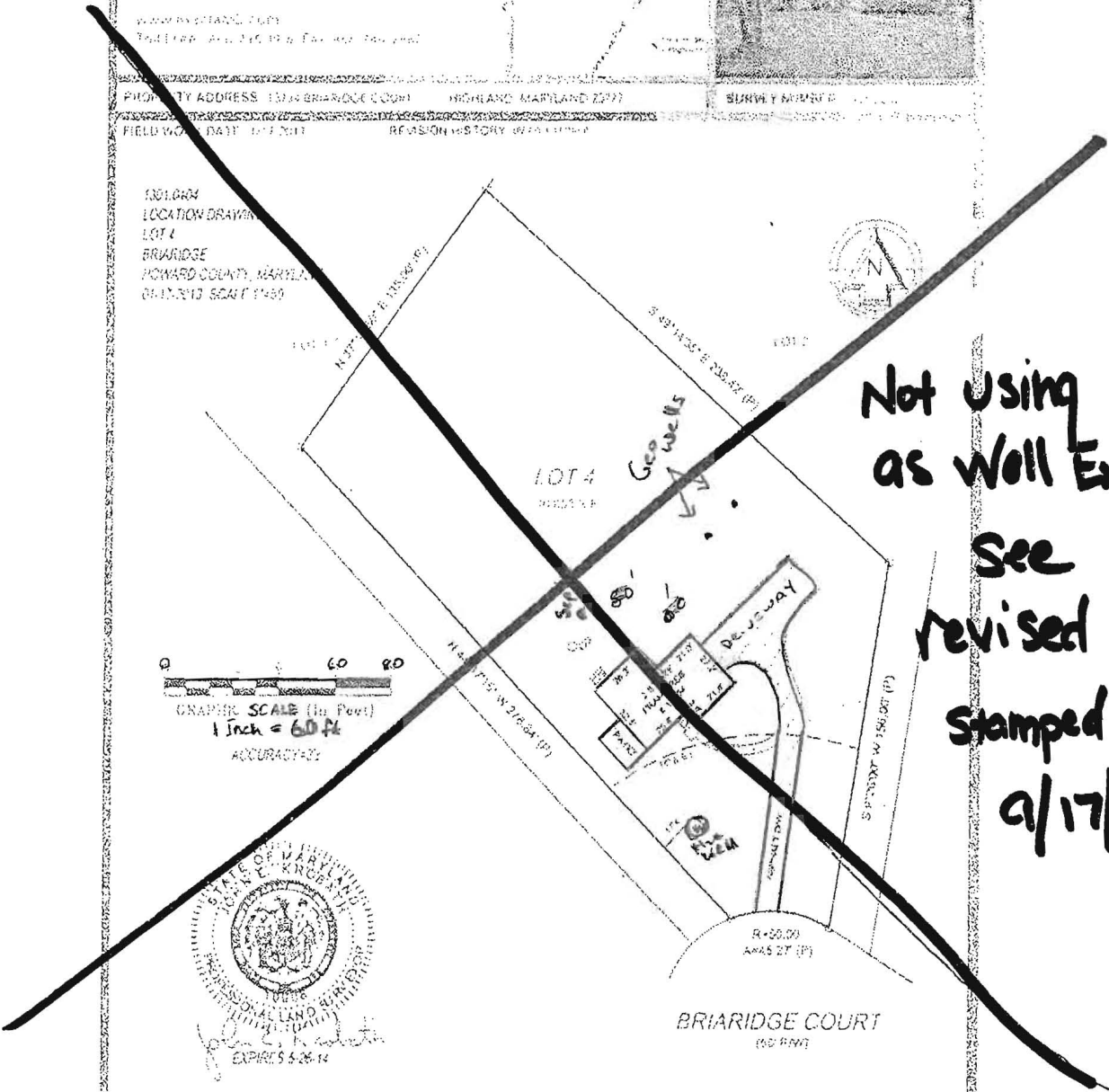
GRAPHIC SCALE (in Feet)
1 Inch = 60 Ft
ACCURACY: ± 1/8"

STATE OF MARYLAND
JAMES E. KRUGER, JR.
COMMISSIONER OF GENERAL LAND SURVEY
EXPIRES 5-28-14

POINTS OF INTEREST:
NONE SHOWN

CLIENT NUMBER: 10000	DATE: 10/1/2012
BUYER: ALEXANDER GARDNER	SURVEY DRAWN BY: [Redacted]
SELLER: JONNY RUFF	FILED TO: [Redacted]
CERTIFIED TO: ALEXANDER GARDNER, THE, REALTY SETTLEMENT SERVICES	FACTS

THIS IS A PARTIAL RECORD. THE ADVICE PROVIDED ON THE REVERSE PAGE SHALL BE A NECESSARY PART OF THE PLAN.



Not using
as well exhibit
see
revised dated
stamped
9/17/13

Geo wells

LOT 4

BRIARIDGE COURT
(50' FRONT)

Rappaport, Ryan

From: Andy Capelle [acapelle@alliedwells.com]
Sent: Tuesday, September 17, 2013 3:14 PM
To: Rappaport, Ryan
Subject: Re: phone call
Attachments: Scan0052.pdf

Ryan,

Here is the updated site plan for the Briaridge job on the plat you provided me. Please let me know what else you need from me.

Andy

On Tue, Sep 17, 2013 at 12:10 PM, Rappaport, Ryan <RRappaport@howardcountymd.gov> wrote:

Andy,

Our phone system is down, we can't make any outside phone calls. I'm not sure what you were asking in your message. If you wanted me to come out to the property I wouldn't be available to meet you out there until Thursday. Or if you want to push this permit application through, you can simply resubmit a Well Exhibit with the setback distances marked on the plan. Base your distances off of the Lot Drawings that I sent to you, mark the distance to the property line as well. Let me know what you'd like to do.

Ryan Rappaport, REHS

Howard County Health Department

Bureau of Environmental Health

8930 Stanford Blvd.

Columbia, MD. 21045

Phone [\(410\) 313-1781](tel:(410)313-1781)

Fax [\(410\) 313-2648](tel:(410)313-2648)

rrappaport@howardcountymd.gov

www.co.ho.md.us

Rappaport, Ryan

From: Andy Capelle [acapelle@alliedwells.com]
Sent: Monday, September 16, 2013 2:22 PM
To: Rappaport, Ryan
Subject: Grouting Spec

Ryan,

Here is our grouting plan:

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 2.5×10^{-8} 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.

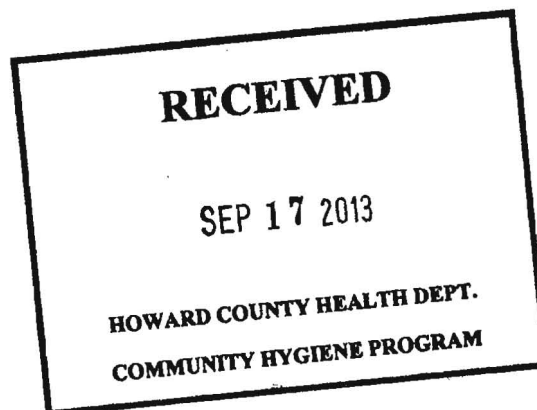
Andy

--

Andy Capelle
Project Manager



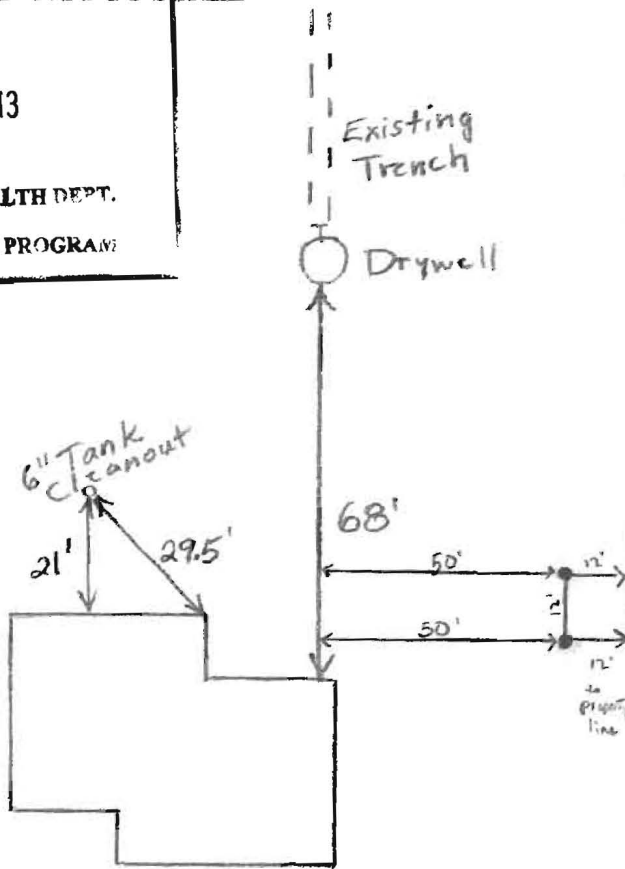
P.O. Box 129
Annapolis Junction, MD 20701
410-371-2219 cell
301-776-8370 office
301-776-8374 fax
alliedwells.com



RECEIVED NOT TO SCALE

SEP 17 2013

HOWARD COUNTY HEALTH DEPT.
COMMUNITY HYGIENE PROGRAM



TRENCH/DRAINFIELD DATA

WIDTH _____ INLET _____ BOTTOM _____

NUMBER OF TRENCHES _____

TOTAL LENGTH _____

ABSORPTION AREA _____

DISTRIBUTION BOX LEVEL _____

DISTRIBUTION BOX BAFFLE _____

DISTRIBUTION BOX PORT _____

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL _____

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

DATE ON LID _____

PUMP/SEPTIC TANK LEVEL _____

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

DATE ON LID _____

PRE-CONSTRUCTION:

10/21/2011 Drywell cover collapsed. Drywell full. Trench of drywell is dry. Pump out and clean out drywell. Fill drywell with gravel and add a 6" piece of perforated pipe extending from bottom of drywell to grade. Check that existing trench is O.K. If O.K. connect trench to drywell. Also cover drywell with fabric. (BB)

INSTALLATION:

11/8/2011 Drywell pumped out and filled with gravel. Everything covered except for part of drywell when I arrived. Installer said that existing trench looked O.K. Alright to finish backfilling. (BB)

FINAL INSPECTOR

B. Baker

DATE OF APPROVAL

11/8/2011

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Andy Capelle
Project Manager



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