

C1 65740

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

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

COUNTY NUMBER

ST/CO USE ONLY

DATE WELL COMPLETED

Approved Depth of Well 500 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-0556

DATE RECEIVED

OWNER Yerkins Gary J WELL SITE ADDRESS 3557 Lakeway Drive TOWN Ellicott City SUBDIVISION Lot 3 6.110 AR S3 3557 Lakeway Dr 55 SECTION LOT

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 (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes handwritten entries: Sand (0-24), Gray Mica Rock (24-500), Converted Water Well to a closed loop geo well, Installed 1.25" x 500' closed loop hdpe U-bend.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES Y NO N TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 18 NO. OF POUNDS 900 GALLONS OF WATER 342 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 500 ft.

CASING RECORD

casings types insert appropriate code below MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 26

OTHER CASING (if used)

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

screen type or open hole

SCREEN RECORD

insert appropriate code below ST BR HO PL OT

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES Y NO 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...

DRILLERS LIC. NO. 1 MWD 587 Stephen DeKosh DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D

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

DEPTH (nearest ft.)

Table with columns: 8, 9, 11, 15, 17, 21, 23, 24, 26, 30, 32, 36, 38, 39, 41, 45, 47, 51. Includes handwritten entries: 40, 26, 500

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) N/A PUMPING RATE (gal. per min.) N/A METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING N/A WHEN PUMPING N/A 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,J,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 -3 (nearest foot)

LATITUDE 39.269201 LONGITUDE 76.948589 (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.

HOWARD COUNTY
DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS
3430 COURT HOUSE DRIVE - ELLICOTT CITY, MD 21043
*** THIS PERMIT MUST BE CONSPICUOUSLY POSTED ON SITE ***

Residential Electrical Addition Alteration Permit

PERMIT NUMBER: E21006376

APPLICATION DATE: 12/20/2021

ISSUE DATE: 12/21/2021

SITE ADDRESS:

3557 LAKEWAY DR
ELLICOTT CITY, MD 21042

PROPERTY OWNER INFO:

YERKINS GARY J
3557 LAKEWAY DR
ELLICOTT CITY, MD 21042
Phone #: 4108696946

Subdivision:

Lot No.: **Tax Map:** 22 **Grid:** 22-11

ADC Map: 4813-J7 **SDP No.:** **Zoning:** RR-DEO **Census Tract:** 603000

DESCRIPTION OF WORK:

INSTALL 3-TON WATER-FURNACE GEOTHERMAL HEAT PUMP (MODEL #NVV038C111CTL0LN); INSTALL NEW 60 AMP & 30 AMP CIRCUITS TO NEW GEOTHERMAL UNIT W/ NEW DISCONNECTS 4102803388

PRIMARY CONTRACTOR INFO:

Licensee: RYAN DESHAIES

HC Elec State License No.: ES 10232

Business Name: CHESAPEAKE ENERGY SOLUTIONS LLC

License Address: 117 GIBRALTER AVE
ANNAPOLIS, MD 21401

Building / Electrical Characteristics

Building Permit #:		Utility Company:	BGE
Residential Use:	SFD	WMS No.:	
Commercial Use:		Service Equipment AMPS:	0
Improvement Type:	Alteration	Sub Panel Amps:	0
Miscellaneous Type:		No. of Service Feeders:	
Bonding:	No	No. of Devices:	1
Trench:	No	Low Voltage:	

Permit Fees:

Total Fees Invoiced:	\$55.00
Total Fees Paid:	\$55.00
Balance Due:	\$0.00

To schedule an inspection or check the results of an inspection please call (410) 313-3800

APPROVED BY THE DIRECTOR OF INSPECTIONS, LICENSES AND PERMITS - BUILDING OFFICIAL

FILE INQUIRY NOTES

3557 Lakeway Drive

DATE	RESULTS OF REVIEW FOR FILE
11/29/21	Original well (HO-73-2926) is still functional and will be kept.
	Previous owners were told HO-73-2926 was dry and they drilled replacement well HO-95-0556. Owners then discovered that the issue w/ 73-2926 was just a broken well line, they then sued well driller.
	Current owner says 73-2926 is well he uses, and 95-0556 does not have working pump. He is converting 95-0556 to geothermal. Loop inserting began at 11AM. Grouting began at 12:30PM w/ 480' tremie pipe using WYO BEN Grout Well DF. (S)

SITE INSPECTION SHEET

OWNER: Rick and Florence Miller PHONE #: _____

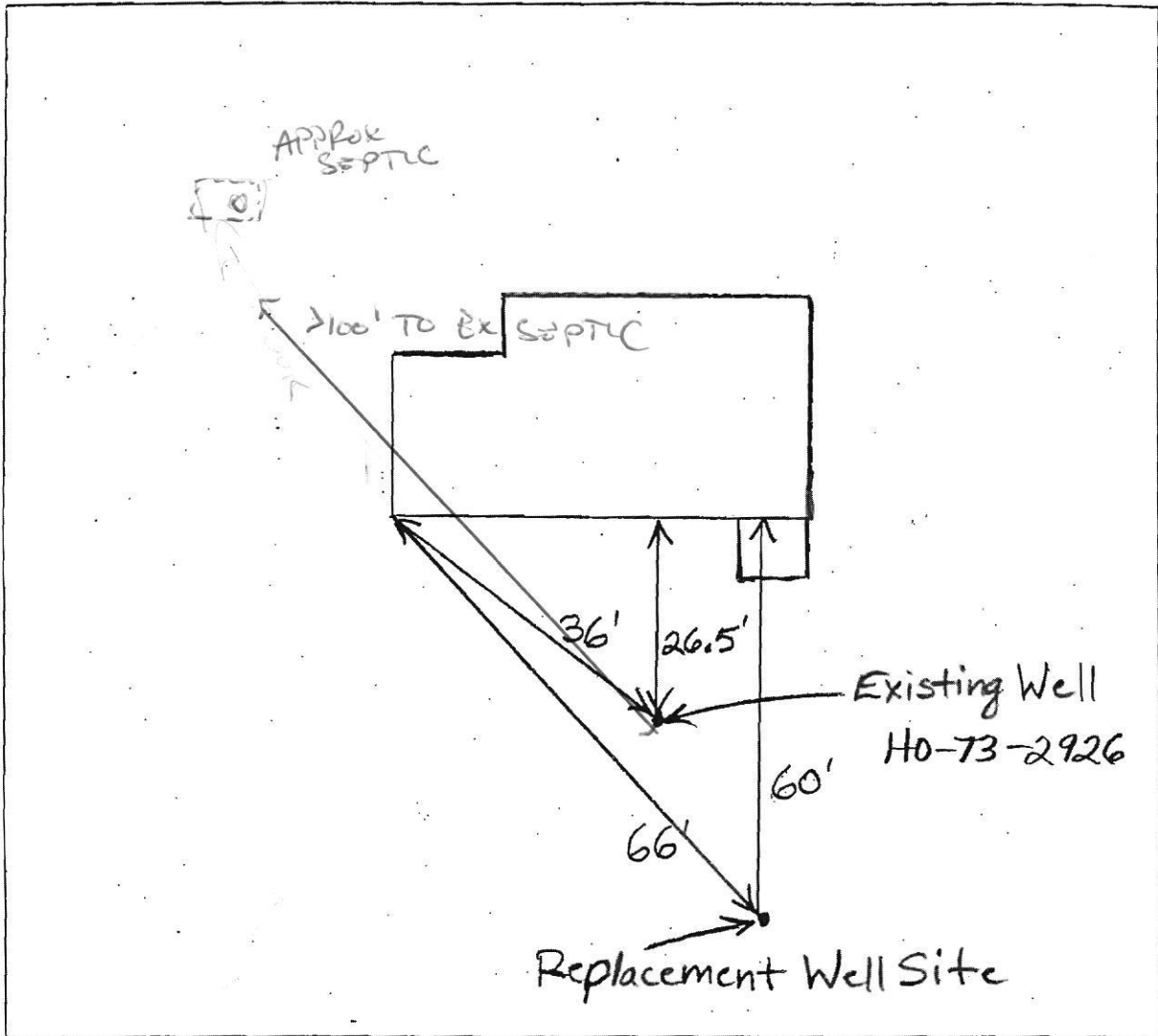
ADDRESS: 3557 Lakeway Drive CONTRACTOR: J. Mayne

WELL TAG #: H0-95-0556

SUBDIVISION: _____ LOT: _____ COUNTY #: _____

PROPOSAL: Drill Replacement Well, Existing Well Not Adequate - Must Seal Old Well

LOCATION DIAGRAM



COMMENTS: Cannot Locate Septic Tank

DATE: 10/27/2006 INSPECTOR: B. Baker

Cabahug, Joseph

From: Steve DeLosh <steve@connellyandassociates.com>
Sent: Tuesday, October 19, 2021 11:31 AM
To: Cabahug, Joseph
Subject: Yerkins Res. 3557 Lakeway Dr. Ellicott City, Md. Letter of Intent
Attachments: Yerkins Res. Cross Secti_20211019111216.pdf; Yerkins Res.Letter of In_20211019112106.pdf; Yerkins Res.500Ft.Comp.R_20211019113154.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Good morning Joe,

Please find the attached documents that we spoke of last week via our phone conversation. Let me know if this will suffice for HCHD in converting the existing water well to an operational geothermal well and if you need any other documents/requirements to authorize Connelly & Associates to proceed with the geothermal well installation. Of course, if approved, we will contact HCHD to schedule a date and time so that a health sanitarian can be onsite to observe the entire operation.

Thanks again for your assistance regarding this project.

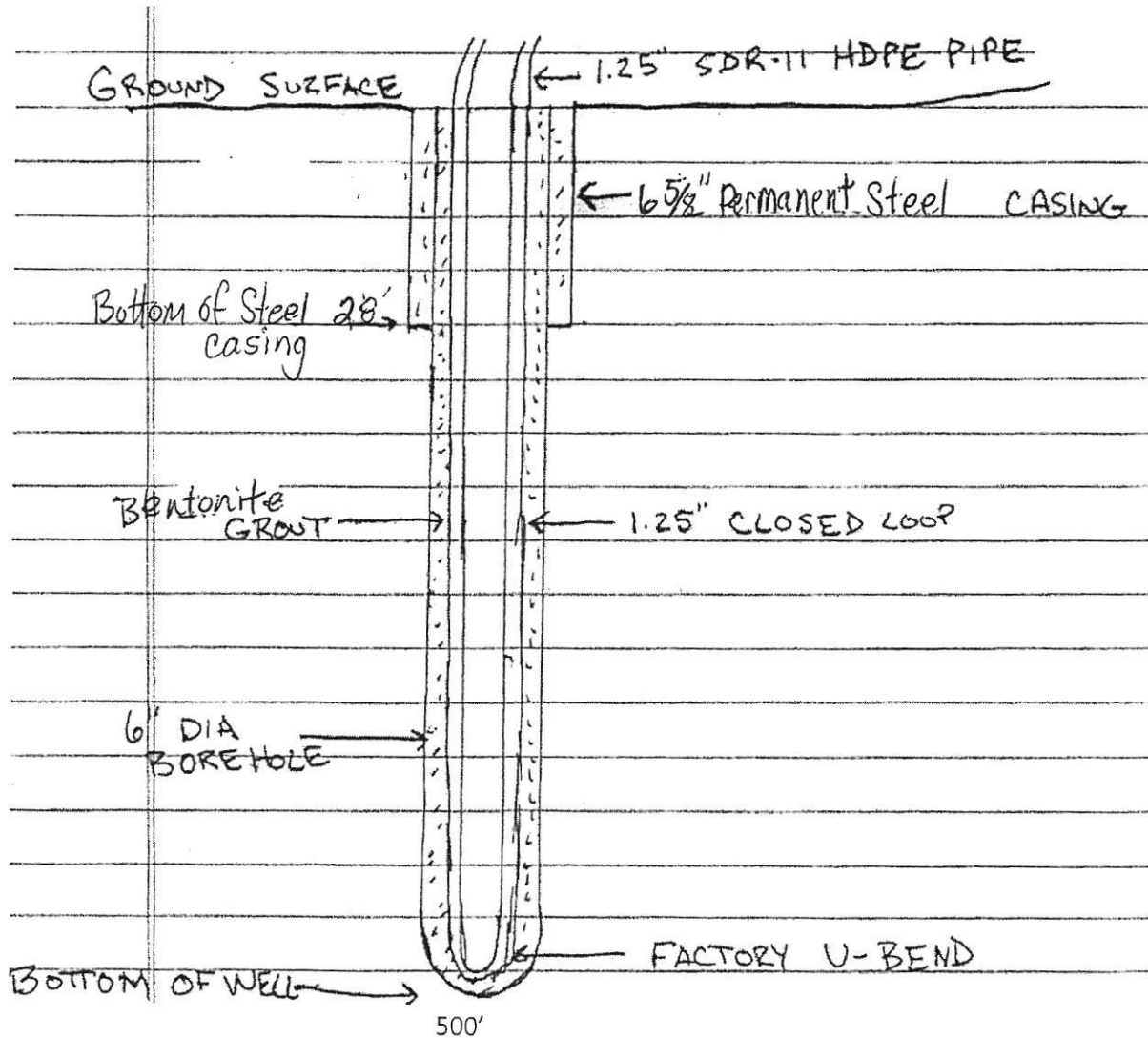
Sincerely,

Steve DeLosh

*Project Manager
Connelly & Associates, Inc.
cell: 240-367-7925
office: 301-696-8820 Ext. 20*



Yerkins Residence: 3557 Lakeway Dr. Ellicott City, Md. Geothermal Closed Loop



Grout information for this property is as follows:

Well Grout DF grout mixture of 50 lb. grout to 19 gallons water, placed in the well using the tremie method, from bottom to top.



1513 Tilco Drive Frederick, Maryland 21704 · 301-696-8820 · www.connellygeothermal.com

Howard County Health Dept.
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045

October 19, 2021

RE: Convert Existing W.W. (H0-95-0556) to a 500 ft. Geothermal Closed Loop Well

To Whom it Concerns:

Please find enclosed, Connelly & Associates Inc. letter of Intention and Cross Section Diagram for one existing water well to be converted to an operational geothermal well. It is Connelly & Associates Inc. intention to convert a currently permitted and registered drilled water well (HO-95-0556) to a 500-foot x 1.25" closed loop hdpe u-bend and immediately bentonite grout from the bottom to the ground surface via tremie piston pump method, which is currently cased with (6) six-inch steel casing and open to a depth of 500 ft. bgs located on the property of 3557 Lakeway Dr. Ellicott City, Md. 21042 which is owned by Mr. Gary Yerkins. The water well pump, pipe and wire have been removed to verify the current depth of the water well and discuss the possibility of the installation of a closed loop geothermal well for heating and cooling purposes in the home. Before installation of the 500 ft x 1.25-inch closed loop U-bend, Connelly & Associates Inc. will chlorinate the well and remove the pitless adaptor which exits the wells six-inch steel casing.

Upon installation of the 1.25-inch x 500-foot closed loop hdpe U-bend pipe, Connelly & Associates Inc. will complete a revised State of Maryland Well Completion Report and submit to the Howard County Environmental Department.

Respectfully,

Stephen DeLosh

MWD-587
Geothermal Manager