

C 1 26373

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 RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER Garrison, Mark + Penny WELL SITE ADDRESS 5505 Harvest Lane TOWN Columbia MD SUBDIVISION SECTION LOT

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes handwritten entries like Top Soil, Brn Clay, Hard Brn Clay, Weathered Rock, Gray Rock, Lime Stone, Gray Rock, Gray Blk Rock.

GROUTING RECORD form with fields for GROUTING RECORD, TYPE OF GROUTING MATERIAL, CEMENT, BENTONITE CLAY, NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD form with fields for CASING RECORD, MAIN CASING TYPE, Nominal diameter, Total depth of main casing.

OTHER CASING (if used) form with fields for diameter, depth.

SCREEN RECORD form with fields for screen type or open hole, SCREEN RECORD, DEPTH (nearest ft.).

PUMPING TEST form with fields for HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, BEFORE PUMPING, WHEN PUMPING, TYPE OF PUMP USED.

PUMP INSTALLED form with fields for DRILLER INSTALLED PUMP, TYPE OF PUMP INSTALLED, CAPACITY, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT.

NUMBER OF UNSUCCESSFUL WELLS, WELL HYDROFRACTURED form.

CIRCLE APPROPRIATE LETTER form with options A, E, P.

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. MWD 553 DRILLERS SIGNATURE LIC. NO. WED 097 SITE SUPERVISOR

DEPTH (nearest ft.) table with columns 1-21 and rows A, C, H, S, C, R, E, E, N.

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) form with fields T, W, Q, TELESCOPE CASING, LOG INDICATOR, OTHER DATA.

LATITUDE 39.21883 LONGITUDE 76.59395 (DEFAULT COORD. WGS 84) NOTES: 39.21881 76.89400

B 1 SEQUENCE NO. (MDE USE ONLY) **45179** STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type STATE PERMIT NUMBER **H0-15-0159**
70 fill in this form completely 79

B 2 Date Received (APA) _____
OWNER INFORMATION
8 MM DD YY 13
Garrison T/E Mark + Diane
15 Last Name Owner First Name 34
5505 Harvest Scene
36 Street or RFD 55
Columbia MD 21044
57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
Howard
8 COUNTY 21
23 SUBDIVISION 42
SECTION 44 46 LOT **22** 48 50
Columbia
52 NEAREST TOWN 71

DRILLER INFORMATION
John Hess M WD 553
Driller's Name 76 License No. 81
Allied Environmental Services
Firm Name
PO Box 129 Annapolis Junction MD 20701
Address
John Hess 0911615
Signature Date

B 4 SOURCES OF DRILLING WATER
1. **Public**
2.
3.
5505 Harvest Scene
11 STREET ADDRESS 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
NORTH N
WEST W EAST E
SOUTH S
34 37
DISTANCE FROM ROAD
ENTER FT OR MI 38 39
TAX MAP: **0035** BLK: _____ PARCEL **0267**

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

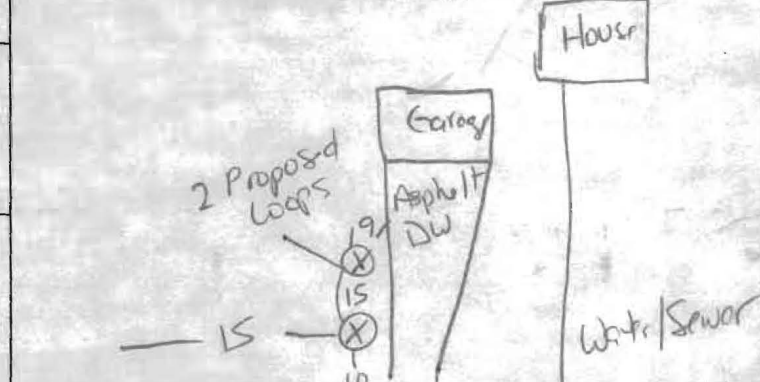
USE FOR WATER (CIRCLE APPROPRIATE BOX)
 D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
22 I INDUSTRIAL, COMMERCIAL, DEWATERING
 P PUBLIC WATER SUPPLY WELL
 T TEST, OBSERVATION, MONITORING
 O OPEN LOOP GEOTHERMAL
 C CLOSED LOOP GEOTHERMAL **2 loops**

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard (13)
COUNTY NAME COUNTY NO.
STATE SIGNATURE _____ INSERT S → 41
DATE ISSUED **10/2/15** **John Hess** **10/2/16**
43 MM DD YY 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL **370** FEET
24 28
APPROXIMATE DIAMETER OF WELL **6** NEAREST INCH

PROPOSED LOCATION OF WELL ON LOT
SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL

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

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.

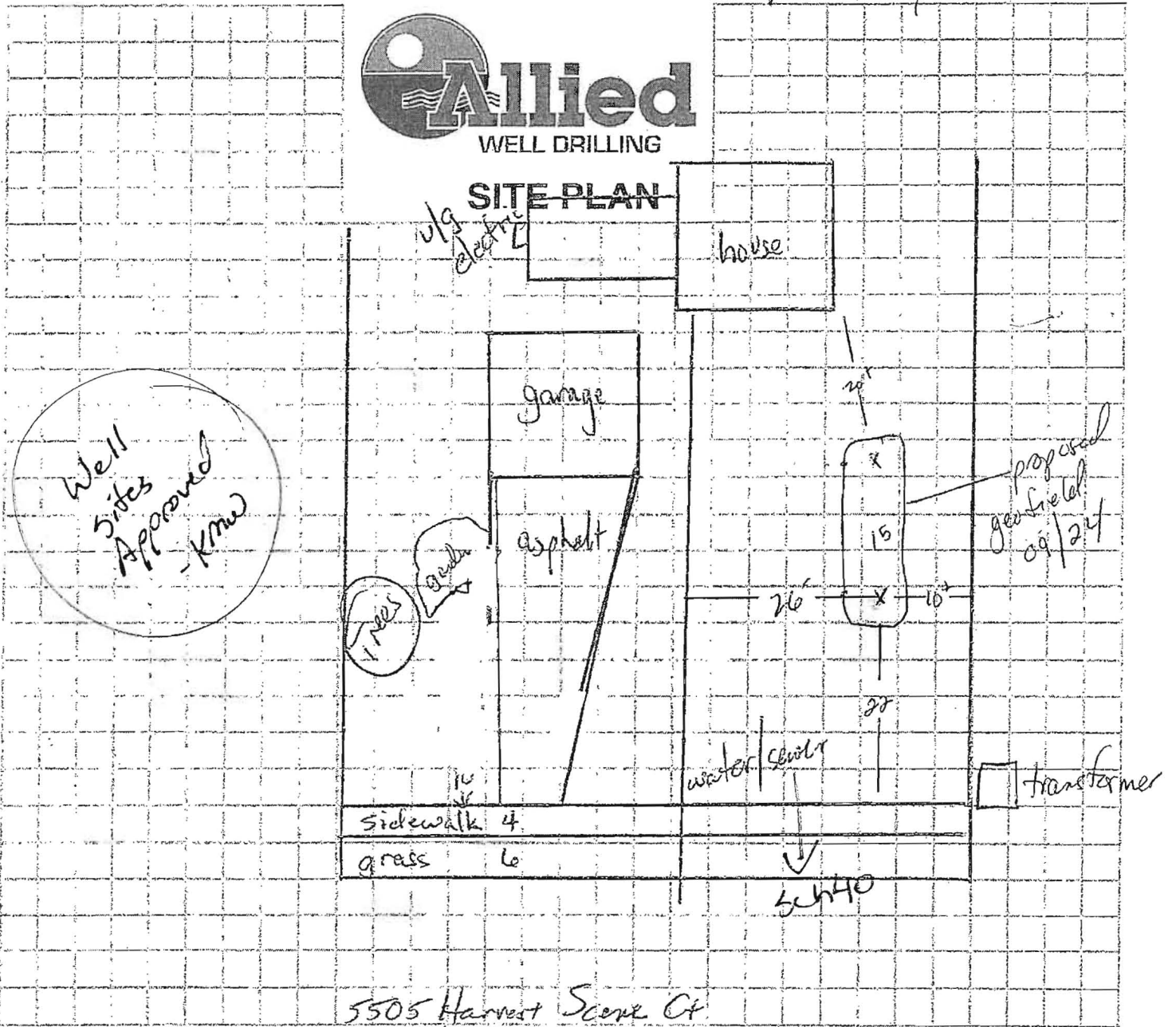
Not to be filled in by driller (MDE OR COUNTY USE ONLY)
APPROX. PERMIT NUMBER _____ **G** _____
PERMIT No. **H0-15-0159**
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS **Grout bottom to top**
NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

revised 09/24



SITE PLAN



5505 Harvest Scene Ct.
Columbia Md

Sediment Control Protocol: silt fence, mud can if encounter water

Distance From
From Septic:
From Sewer:
From Property:
From Street:

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

HO-15-0159

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

Nearby: out of drill area, small garden
Issues: need marked - electric
Needed: to leave drive
Ess For H/U: to be done by others
Neighboring Tags: municipal

of side visit
revised (more right) on 09/24

Comments:
* 09/24 elec
Person Completing Form: [Signature]

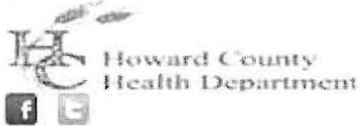
Wolf, Kevin

From: Wolf, Kevin
Sent: Thursday, October 01, 2015 2:12 PM
To: Andy Capelle; William Guizzardi
Subject: 5502 Harvest Scene

Andy,
Please revise your well site plan for this geo permit to show the location of the public water and sewer lines.

Thanks,

Kevin M. Wolf, LEHS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045
(o) 410-313-2645
(f) 410-313-2648



kwolf@howardcountymd.gov

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FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
9/29/15	Well sites struck. could not confirm pub water/sewer location. Install date 1972. Email sent to
	Diller to reuse site plan (Knew)

Legacy Water-Sewer

File Home Create External Data Database Tools

View Paste Copy Filter Ascending Selection Descending Advanced Refresh Save Spelling Find Go To Select Bold Italic Underline Text Formatting

Views Clipboard Sort & Filter Records Find

Security Warning Some active content has been disabled. Click for more details. Enable Content

frmLegacyWS_Master qry_StreetAddressByName

HOWARD COUNTY DEPARTMENT OF FINANCE

Legacy Water/Sewer

Street Address Search

Account No: **69503038** 5505 HARVEST SCENE
 COLUMBIA 210440000

Date Created: 2/22/1997
 Building:
 Tax ID: 15 41781 Land Use: R
 Subdivision:

Master Information Application Data Comments Bill History Payment History

Name on Account: MARK GARRISON

Service Type: Wtr/Swr Cycle: 1
 Pay Status: D Bill Stat: B

Primary Billing Address

5505 HARVEST SCENE
 COLUMBIA MD 210440000

Secondary Billing Address

Meter Information

Meter No: 93007626
 ERT: 82668553
 Date InstlId: 9/17/1982
 Manufact: ORION
 Meter Size: N/A-REMO
 Perm Code: 10
 Compound: 1

Surch Code:
 Surch Area: 0
 Surch Rate: 0

Meter / SubMeter Info

Master Mtr:
 0
 0
 0
 0

Meter Location: RADIO P-III SW 3'R OFFFRONT DOOR

Legacy Water-Sewer

File Home Create External Data Database Tools

View Paste Copy Filter Ascending Descending Selection Advanced Refresh All New Save Delete More Records Find Go To Select

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frmLegacyWS_Master qry_StreetAddressByName

HOWARD COUNTY DEPARTMENT OF FINANCE

Legacy Water/Sewer

Street Address Search

Account No 5505 HARVEST SCENE
 COLUMBIA 210440000

Date Created:
 Building:
 Tax ID: 15 41781 Land Use: R
 Subdivision:

Master Information Application Data Comments Bill History Payment History

Water Applic No	<input type="text" value="COL 854L"/>	Sewer Applic No	<input type="text" value="COLS 854L"/>
Water Applic Date	<input type="text" value="4/4/1972"/>	Sewer Applic Date	<input type="text" value="4/4/1972"/>
Water Applic Fee	<input type="text" value="0"/>	Sewer Applic Fee	<input type="text" value="0"/>
Water Connect Date	<input type="text"/>	Sewer Connect Date	<input type="text"/>
2nd Water Applic No	<input type="text"/>	2nd Sewer Applic No	<input type="text"/>
2nd Water Applic Date	<input type="text"/>	2nd Sewer Applic Date	<input type="text"/>
2nd Water Applic Fee	<input type="text" value="0"/>	2nd Sewer Applic Fee	<input type="text" value="0"/>
Water WO	<input type="text"/>	Sewer WO	<input type="text"/>
WSAddFl	<input type="text"/>	Cash Receipt 1	<input type="text"/>
ADO Number	<input type="text"/>	Cash Receipt 2	<input type="text"/>
PrePDInd	<input type="text"/>	Mtr Size Applied For	<input type="text"/>

Legacy Water-Sewer

File Home Create External Data Database Tools

View Paste Copy Filter Ascending Descending Selection Advanced Refresh Save Spelling Find Go To Select

Views Clipboard Sort & Filter Remove Sort Toggle Filter Delete More Records Find

Security Warning Some active content has been disabled. Click for more details. [Enable Content](#)

frmLegacyWS_Master qry_StreetAddressbyName

HOWARD COUNTY DEPARTMENT OF FINANCE

Legacy Water/Sewer

Street Address Search

Account No: 5505 HARVEST SCENE
 COLUMBIA 210440000

Date Created:
 Building:
 Tax ID: 15 41781 Land Use: R
 Subdivision:

Master Information Application Data Comments Bill History Payment History

Water Applic No	<input type="text" value="COL 854L"/>	Sewer Applic No	<input type="text" value="COLS 854L"/>
Water Applic Date	<input type="text" value="4/4/1972"/>	Sewer Applic Date	<input type="text" value="4/4/1972"/>
Water Applic Fee	<input type="text" value="0"/>	Sewer Applic Fee	<input type="text" value="0"/>
Water Connect Date	<input type="text"/>	Sewer Connect Date	<input type="text"/>
2nd Water Applic No	<input type="text"/>	2nd Sewer Applic No	<input type="text"/>
2nd Water Applic Date	<input type="text"/>	2nd Sewer Applic Date	<input type="text"/>
2nd Water Applic Fee	<input type="text" value="0"/>	2nd Sewer Applic Fee	<input type="text" value="0"/>
Water WO	<input type="text"/>	Sewer WO	<input type="text"/>
WSAddFl	<input type="text"/>	Cash Receipt 1	<input type="text"/>
ADO Number	<input type="text"/>	Cash Receipt 2	<input type="text"/>
PrePDInd	<input type="text"/>	Mtr Size Applied For	<input type="text"/>

GRADE

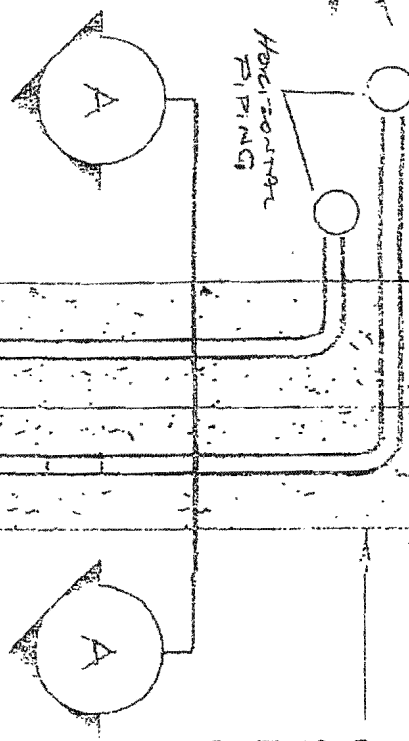
EACH BORE HOLE (TYP.)

MINIMUM
HORIZONTAL BURY
DEPTH 4 FT

FOR CONT.
SEE PLANS

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

Bore Depth



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

TAPE

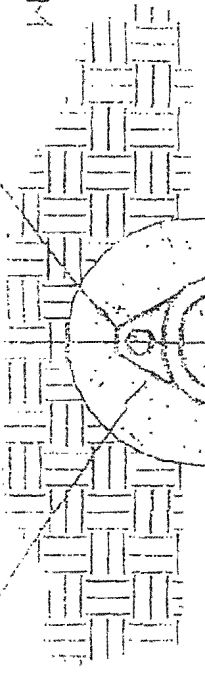
DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U-TUBE
1.5 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

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 2.5×10^{-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.



HOWARD COUNTY HEALTH DEPARTMENT

57380

DATE 9/21/15

05
774 8370

Received From

Allied Env.

PHONE #

For

well permit/ 550s Harvest
Scene

CASH

CHECK

NO.

1960

One hundred seventy six Dollars

\$

100.00

Received By

D.K.