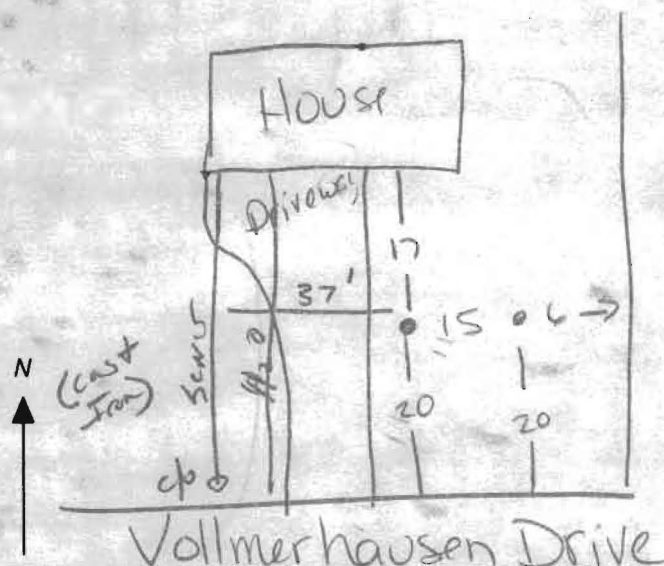


B 1 36715 <small>1 2 3 6</small>		SEQUENCE NO. (MDE USE ONLY)		STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 555832 please type		STATE PERMIT NUMBER 40-15-0075 <small>70 79</small> fill in this form completely	
Date Received (APA) 04/24/15 <small>8 MM DD YY 13</small>				B 3 LOCATION OF WELL Howard <small>8 COUNTY 21</small> Vil Kings Contriv <small>23 SUBDIVISION 42</small> SECTION 201 <small>44 46 48 50</small> Columbia <small>52 NEAREST TOWN 71</small>			
OWNER INFORMATION Earl III John R <small>15 Last Name 34 Owner First Name</small> 9492 Vollmerhausen Drive <small>36 Street or RFD 55</small> Columbia MD 21046 <small>57 Town 70 State 72 Zip 76</small>				B 4 SOURCES OF DRILLING WATER 1. Public 2. 3.			
DRILLER INFORMATION C John Hess MWD 553 <small>76 Driller's Name 81 License No.</small> Allied Environmental Services <small>60 Firm Name</small> PO Box 129 Annapolis Inden MD 2070 <small>Address</small> C John Hess 04/24/15 <small>Signature Date</small>				9492 Vollmerhausen Dr <small>11 STREET ADDRESS 30</small> ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) <div style="text-align: center;"> <small>NORTH</small> <small>WEST EAST</small> <small>SOUTH</small> </div> 34 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: 0042 BLK: 0015 PARCEL 0437			
B 2 WELL INFORMATION <small>1 2</small> 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 Howard (13) <small>COUNTY NAME COUNTY NO.</small> STATE SIGNATURE _____ INSERT S → 41 DATE ISSUED 5/6/15 <small>43 MM DD YY 48</small> CO SIGNATURE _____ EXP. DATE			
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input type="checkbox"/> OPEN LOOP GEOTHERMAL <input checked="" type="checkbox"/> CLOSED LOOP GEOTHERMAL 2 loops				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			
APPROXIMATE DEPTH OF WELL 370 FEET <small>24 28</small>				APPROXIMATE DIAMETER OF WELL 6 INCH <small>NEAREST INCH</small>			
METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTARY DRIVE-POINT other _____				REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEAN 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. 40-15-0075 <small>70 71 72 73 74 75 76 77 78 79</small>				SPECIAL CONDITIONS <small>NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED</small>			

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



C1 34407

SEQUENCE NO.
(MDE USE ONLY)STATE OF MARYLAND
WELL COMPLETION REPORTTHIS 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)FILL IN THIS FORM COMPLETELY
PLEASE TYPECOUNTY
NUMBER

ST/CO USE ONLY

DATE RECEIVED

MM DD YY
05 29 15

DATE WELL COMPLETED

MM DD YY
5-11-15

Depth of Well

22 370 26
(TO NEAREST FOOT)PERMIT NO.
FROM "PERMIT TO DRILL WELL"40-15-0075
28 29 30 31 32 33 34 35 36 37

OWNER

WELL SITE ADDRESS

SUBDIVISION

SECTION

TOWN

LOT 201

WELL LOG

Not required for driven wells

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)yes no
Y N
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 45 46 NO. OF POUNDS 45 46

GALLONS OF WATER 100

DEPTH OF GROUT SEAL (to nearest foot)

from 48 TOP 52 ft. to 54 BOTTOM 58 ft.
(enter 0 if from surface)

CASING RECORD

casing
types
insert
appropriate
code
belowST CO
STEEL CONCRETE
PL PL
PLASTIC 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 depth (feet)
inch from toscreen type or open hole
insert appropriate code below
ST BR HO
STEEL BRASS OPEN
BRONZE HOLE
PL PL OT
PLASTIC OTHER

C 2 DEPTH (nearest ft.)

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 E NSLOT SIZE 1 2 3
DIAMETER OF SCREEN (NEAREST INCH)

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
27 27 27
C centrifugal R rotary O (describe below)
27 27 27
J jet S submersible
27 27

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 (nearest foot)
- below 49 50 51LATITUDE 39.15865
LONGITUDE 76.84124
(DEFAULT COORD. WGS 84)
NOTES:

NUMBER OF UNSUCCESSFUL WELLS:

WELL HYDROFRACTURED yes no
Y NCIRCLE 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. 1 M WD 553

DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D 141

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



HOWARD COUNTY HEALTH DEPARTMENT

55832

DATE
4/24/15

Received
From

allied Environmental

PHONE #

301 776-8370

For

Well permit / 9492 Well maintenance
Dr

☐ CASH
☒ CHECK

NO.

16041

One hundred sixty

Dollars

\$

160.00

Received By

King

GRADE

EACH BORE HOLE (TYP.)

MINIMUM
HORIZONTAL BURY
DEPTH 4 FT

FOR CONT.
SEE PLANS

HORIZONTAL
PIPING

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

BORE DEPTH

TAPE

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

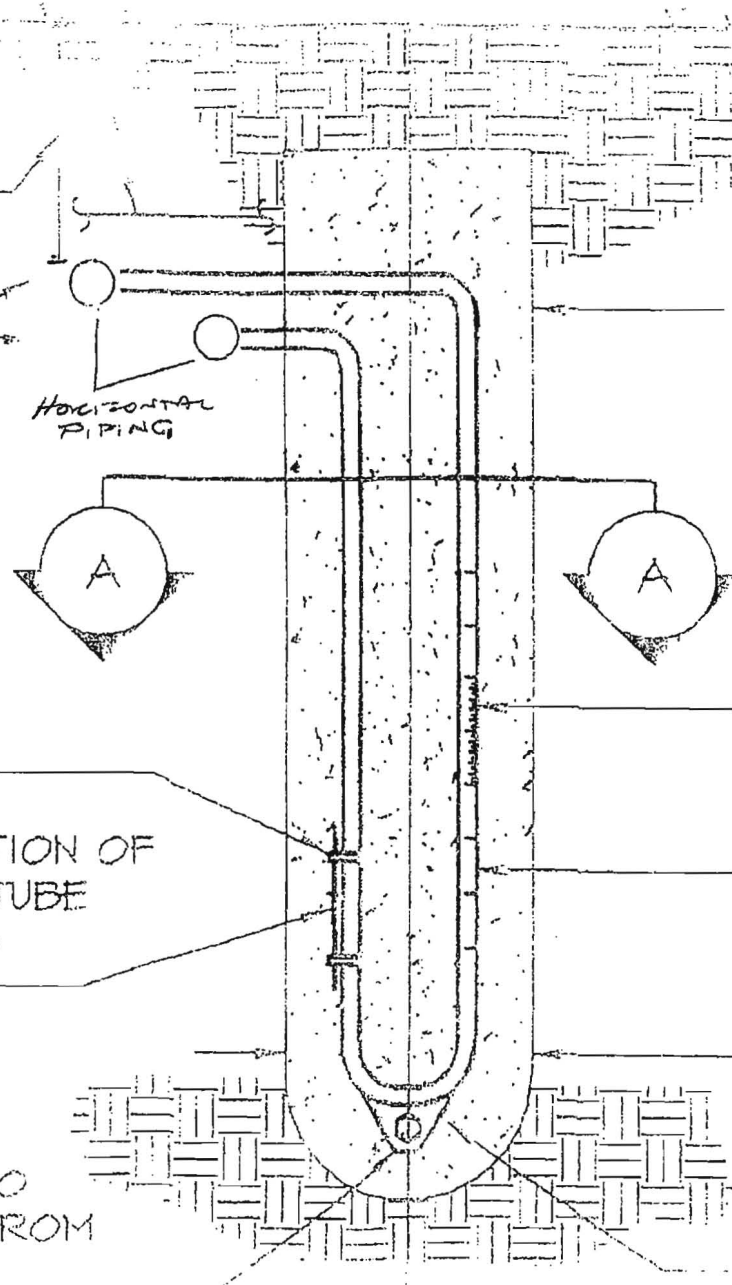
DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
1.5 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

TYPICAL SOCKET U-BEND

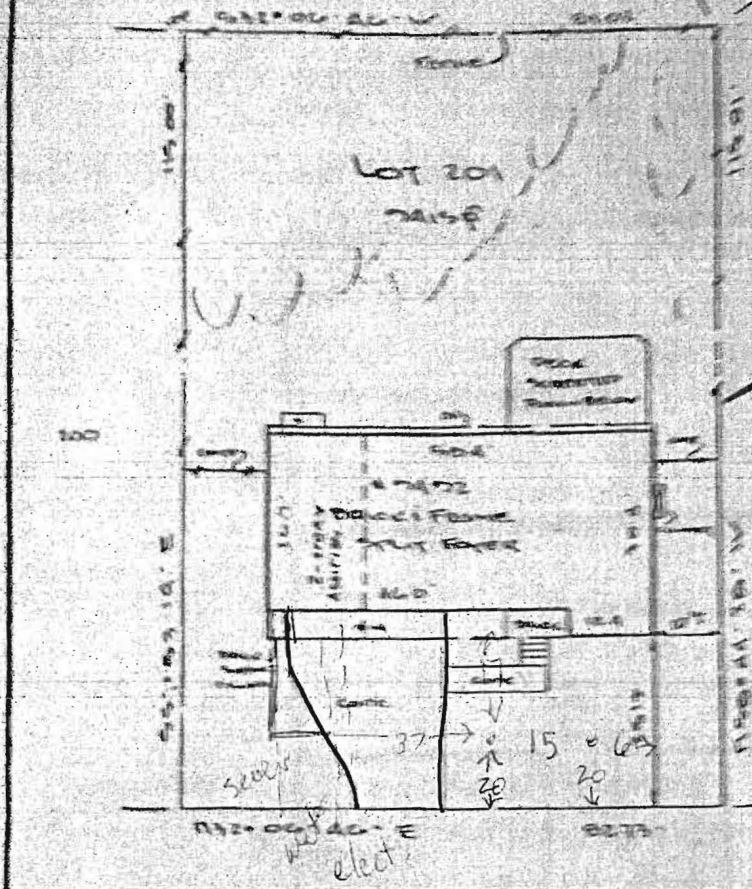


HOWARD COUNTY GROUTING PROCEDURE

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.



NOTE: The above shown location does not refer to the 100-year flood plain or any other flood zone. Date of issue is 5/6/15 Flood Zone "D"



5/6/15 Well sites Approved -KMD

VOLLMERHAUSEN DRIVE



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

HO-15-0075

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

IMPROVEMENT
LOT 201
COWHOLE
Village of
Section 3
Howard

JOHN J. KELLY	DATE 5/10/15
FIELD U.S.	PRINT KMD
	FE 11/15
	REVIEW 10

R. C. KELLY
LAND SURVEYORS
1000 COLLETTVILLE ROAD, SUITE 100
BLANCKSPRING, MD 21011
(410) 381-8800
& ASSOC., INC.

Real Property Data Search (w3)

Guide to searching the database

Search Result for HOWARD COUNTY

View Map		View GroundRent Redemption		View GroundRent Registration	
Account Identifier:		District - 16 Account Number - 151637			
Owner Information					
Owner Name:		EARP JOHN R III		Use:	RESIDENTIAL
Mailing Address:		9492 VOLLMERHAUSEN DR COLUMBIA MD 21046-2004		Principal Residence:	YES
				Deed Reference:	/04662/ 00473
Location & Structure Information					
Premises Address:		9492 VOLLMERHAUSEN DR COLUMBIA 21046-0000		Legal Description:	LOT 201 9,415 SQ' 9492 VOLLMERHAUSEN DR VIL KINGS CONTRIV S3 A1
Map:	Grid:	Parcel:	Sub District:	Subdivision:	Section: Block: Lot: Assessment Year: Plat No: Plat Ref:
0042	0015	0437		0000	201 2015
Special Tax Areas:				Town:	NONE
				Ad Valorem:	104
				Tax Class:	
Primary Structure Built	Above Grade Enclosed Area	Finished Basement Area	Property Land Area	County Use	
1979	1,676 SF	750 SF	9,415 SF		
Stories	Basement	Type	Exterior	Full/Half Bath	Garage
Split Foyer	YES	SPLIT FOYER	FRAME	2 full/ 1 half	1 Attached
Value Information					
	Base Value	Value As of 01/01/2015	Phase-in Assessments As of 07/01/2014 As of 07/01/2015		
Land:	159,400	159,400			
Improvements	211,200	230,600			
Total:	370,600	390,000	370,600	377,067	
Preferential Land:	0			0	
Transfer Information					
Seller: EARP JOHN		Date: 03/17/1999		Price: \$0	
Type: NON-ARMS LENGTH OTHER		Deed1: /04662/ 00473		Deed2:	
Seller: KREMKAU WESLEY M		Date: 07/14/1993		Price: \$200,000	
Type: ARMS LENGTH IMPROVED		Deed1: /02921/ 00427		Deed2:	
Seller:		Date:		Price:	
Type:		Deed1:		Deed2:	
Exemption Information					
Partial Exempt Assessments:	Class	07/01/2014		07/01/2015	
County:	000	0.00			
State:	000	0.00			
Municipal:	000	0.00 0.00		0.00 0.00	
Tax Exempt:	Special Tax Recapture:				
Exempt Class:	NONE				
Homestead Application Information					
Homestead Application Status: Approved 12/31/2012					