



HOWARD COUNTY HEALTH DEPARTMENT

74034

DATE 3/10/03

Received From

Allied Env. Services

PHONE #

301-776-8370

For

well permit / 234
per ct

CASH

CHECK

NO.

24589

One hundred sixty

Dollars

\$

160.00

Received By

Ken

02-334752

EMERGENCY/TEMP NO. IF ANY

TAG:

B 1 SEQUENCE NO. (MDE USE ONLY) **STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL** please type **STATE PERMIT NUMBER** HO-20-0263
70 fill in this form completely 79

Date Received (APA) 03/12/23
OWNER INFORMATION
 8 MM DD YY 13
Whitelock John + Emma
 15 Last Name Owner First Name 34
2304 Carr Ct
 36 Street or RFD 55
Ellicott City MD 21042
 57 Town 70 State 72 Zip 76

B 3 **LOCATION OF WELL**
Howard
 8 COUNTY 21
Bridgewater
 23 SUBDIVISION 42
 SECTION 44 48 LOT 74 50
Ellicott City
 52 NEAREST TOWN 71

DRILLER INFORMATION
Wesley Well M 44 D 598
 Driller's Name 76 License No. 81
Medical Well Drilling
 Firm Name
PO Box 125 Annapolis Junction MD 20701
 Address
Wesley A Wells 03/15/23
 Signature Date

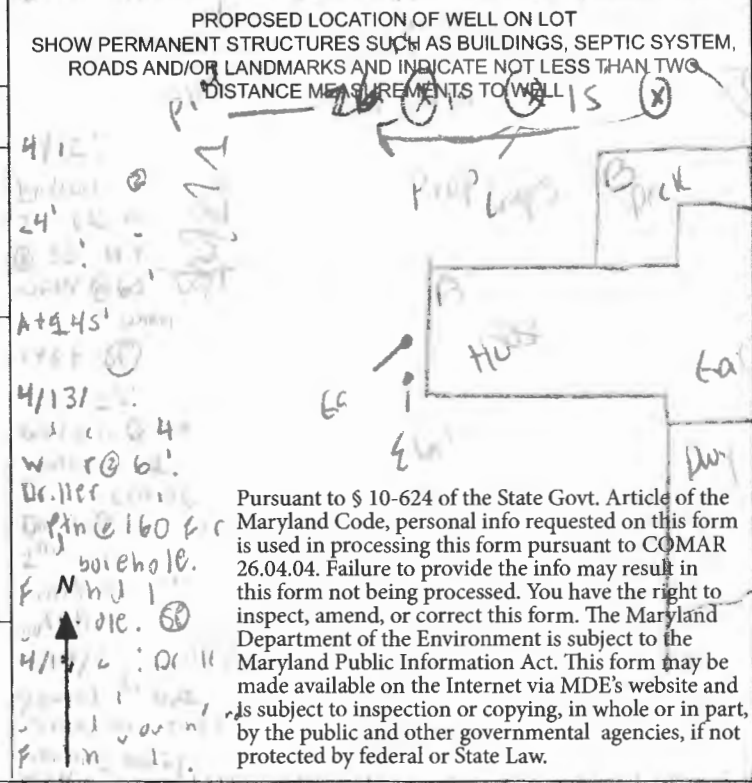
B 4 **SOURCES OF DRILLING WATER**
 1. Public
 2.
 3.
2304 Carr Ct
 11 STREET ADDRESS 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH
 WEST EAST
 SOUTH
 34 140' 37
 DISTANCE FROM ROAD
 ENTER FT OR MI 38 39
 TAX MAP 0017 BLK: --- PARCEL 0030

B 2 **WELL INFORMATION**
 APPROX. PUMPING RATE (GAL. PER MIN.) 8 --- 12
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 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
3 loops

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard 13
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE INSERT S → 41
 DATE ISSUED 4/3/23 AB 4/3/24
 43 MM DD YY 48 CO SIGNATURE EXP. DATE

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



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
 39 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 DEEPEM 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-20-0263
 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS
 NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.

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.

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

ST/CO USE ONLY DATE RECEIVED MM 03 23 DATE WELL COMPLETED 4/14/23 Depth of Well 22 300 26 (TO NEAREST FOOT) PERMIT NO. FROM "PERMIT TO DRILL WELL" HU-00-0063

OWNER White Oak WELL SITE ADDRESS 3504 TOWN 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	
30-30-20	10	30	
30-30-20	30	40	
30-30-20	40	60	
30-30-20	60	50	

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 48 NO. OF ROUNDS 26
GALLONS OF WATER 1200
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 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)
EACH CASING diameter inch depth (feet) from to

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

NUMBER OF UNSUCCESSFUL WELLS: 0
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. 1 MWD
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)

C 2 DEPTH (nearest ft.)

1	8	9	11	15	17	21
2	23	24	26	30	32	36
3	38	39	41	45	47	51

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.) 1 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

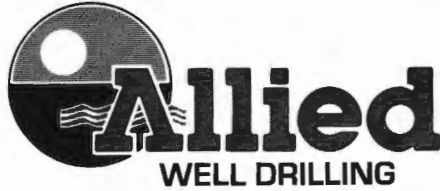
PUMP INSTALLED
DRILLER INSTALLED PUMP YES NO
IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29
CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35
PUMP HORSE POWER 37 41
PUMP COLUMN LENGTH (nearest ft.) 43 47
CASING HEIGHT (circle appropriate box and enter casing height)-
+ above } LAND SURFACE (nearest foot)
- below }

LATITUDE 3 31 75
LONGITUDE 76 53 74
(DEFAULT COORD. WGS 84)

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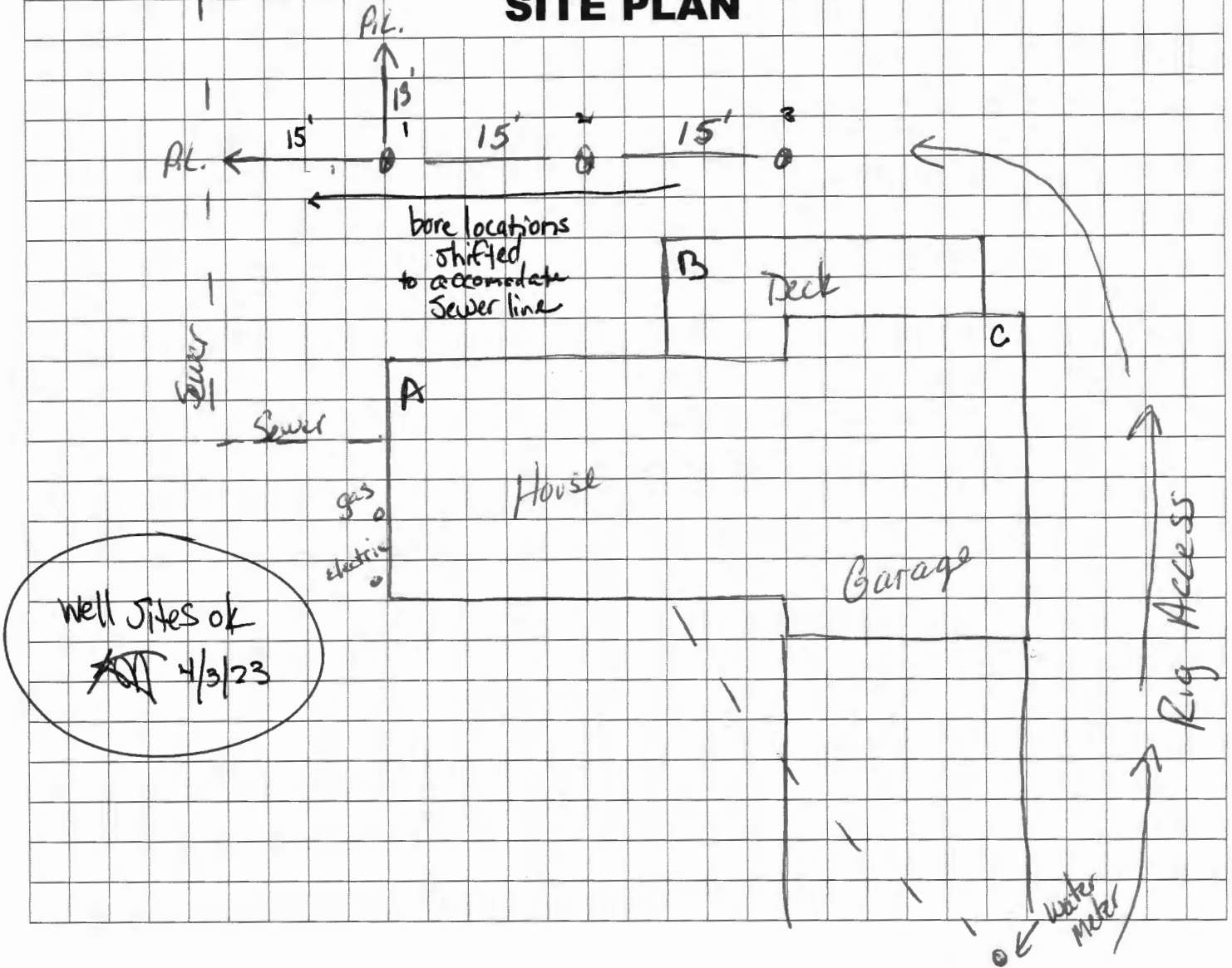
Survey COUNTY

	A	B	C
1	37'	37'	
2	-	-	
3	47'	43'	



2304 Carr Ct
 Elliott City Md
 3 wells @ 373' each
 closed loop geothermal

SITE PLAN



Sediment Control Protocol: Silt Fence

Distance From House: 37'
 From Septic: N/A
 From Sewer: 25'
 From Property Line: 13'
 From Street: 100'+

Trees Nearby: NO
 Utility Issues: NO
 Mats Needed: Yes
 Access For H/U: N/A
 Neighboring Tags: See Comps

Comments: _____

Person Completing Form: Mrs Wolfe

GRADE

EACH BORE HOLE (TYP.)

HORIZONTAL BORE
DEPTH 4 FT

FOR CONT.
SEE PLANS

HORIZONTAL
PIPING

GROUT ENTIRE ANGULAR
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

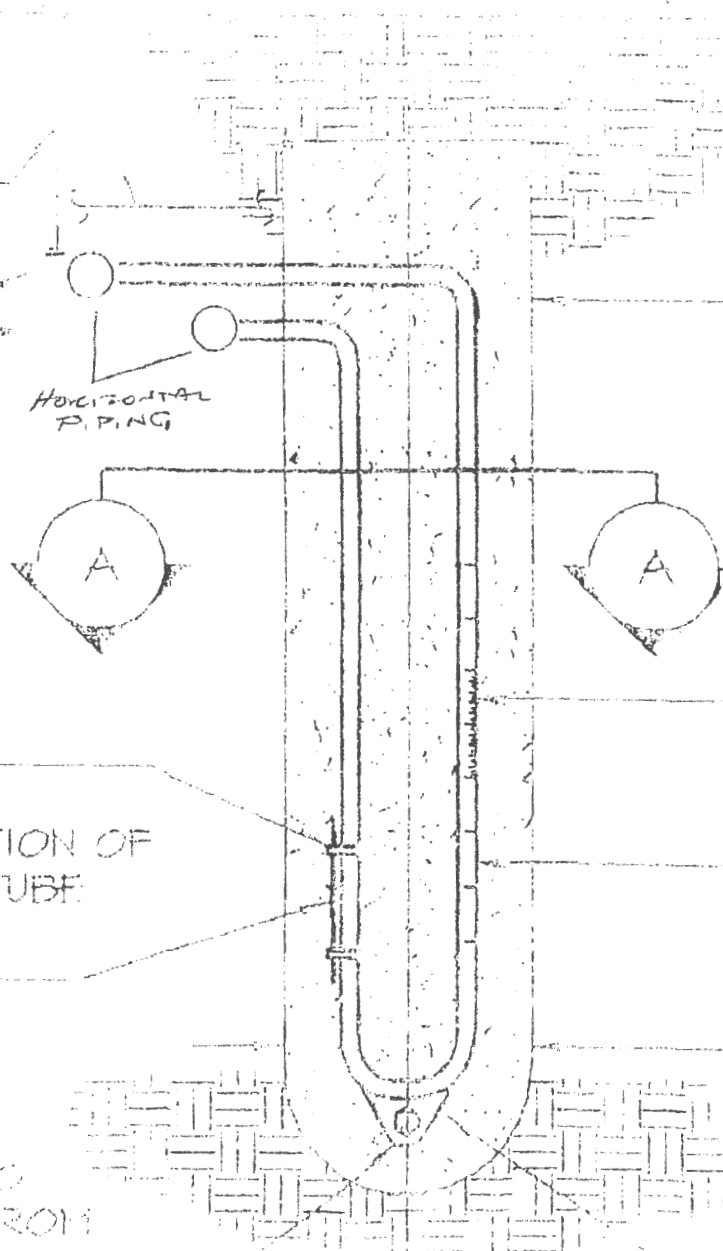
DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
6.0 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

ANCHOR FITTINGS TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

SEE PLAN SOURCE FILE



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 $2.5 \text{ E}(-08) \text{ cm/sec}$. 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.

RECEIPT

Howard County, MD
HOWARD COUNTY HEALTH DEPARTMENT
ASCEND ONE BUILDING
Columbia, MD 21045
8930 STANFORD BLVD

Application: WS-WP-23-00641
Application Type: EnvHealth/Well and Septic/Installation/Application
Address:

Receipt No.	6081					
Payment Method	Ref Number	Amount Paid	Payment Date	Cashier ID	Received	Comments
Check	29589	\$160.00	03/16/2023	JUKING		Receipt # 74034
Work Description:	Well Permit/ 2304 Carr Ct					