



HOWARD COUNTY HEALTH DEPARTMENT

72711

DATE
11/30/22

105

Received From

Allied Environmental

PHONE #

301 776-8320

Service

For

Wall Permit / 3650 Valley

3806

rd

Woodland Court

Three hundred twenty

Dollars

CASH
 CHECK

NO.

28928

\$ 370.00

Received By

[Signature]

02-225948

EMERGENCY/TEMP NO. IF ANY

TAG: N/A

B 1	77887	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND	STATE PERMIT NUMBER
			APPLICATION FOR PERMIT TO DRILL WELL please type	H0-20-0244 fill in this form completely

Date Received (APA) 1/30/22

OWNER INFORMATION

Wells Fletcher + Lori
3650 Valley Road
Ellicott City MD 21042

B 3 LOCATION OF WELL

Howard
Mac Alpine
Ellicott City

DRILLER INFORMATION

Wesley Wolke MWD 598
Allied Well Drilling
PO Box 129 Annapolis Junction MD 21770
11/29/22

B 4 SOURCES OF DRILLING WATER

1. Public
2. HCFD
3. started 1st loop. was at 180 @ time of venture. SP

3650 Valley Rd
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
NORTH
WEST EAST
SOUTH
DISTANCE FROM ROAD 45' ENTER FT OR MI 38 39
TAX MAP: 0024 BLK: PARCEL 0219

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)

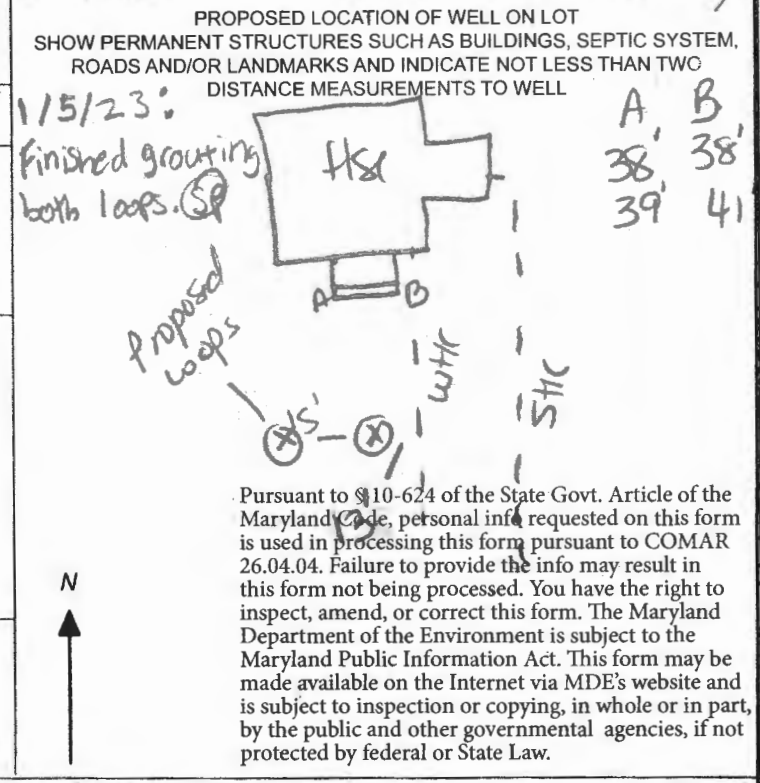
DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, DEWATERING
 PUBLIC WATER SUPPLY WELL
 TEST, OBSERVATION, MONITORING
 OPEN LOOP GEOTHERMAL
 CLOSED LOOP GEOTHERMAL 2 loops

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13
COUNTY NAME COUNTY NO.
STATE SIGNATURE [Signature] INSERT S → 41
DATE ISSUED 12/22/22 CO SIGNATURE [Signature] 12/22/23
43 MM DD YY 48 EXP. DATE

Don: 1/3/23 Doc: 1/5/23 DOY: N/A

APPROXIMATE DEPTH OF WELL 320 FEET
APPROXIMATE DIAMETER OF WELL 6 INCH



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)

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 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. H0-20-0244

SPECIAL CONDITIONS
NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

grout bore from bottom to top

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON AEL CARDS) FILL IN THIS FORM COMPLETELY PLEASE TYPE COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED DATE WELL COMPLETED Depth of Well PERMIT NO. FROM "PERMIT TO DRILL WELL" MM DD YY 7-6-03 22 240 26 140-36-0244

OWNER last name first name TOWN WELL SITE ADDRESS 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	
Blue sand	0	30	
Light yellow sand	30	35	
Grey sand	35	100	
Grey sand	100	140	
Grey sand	140	200	
Grey sand	200	260	
Grey sand	260	320	

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 45 46 NO. OF POUNDS 45 46
GALLONS OF WATER
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

C2 DEPTH (nearest ft.)
1 2
A 8 9 11 15 17 21
C 23 24 26 30 32 36
S 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 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)
T (E.R.O.S.) W Q
70 72 74 75
TELESCOPE CASING LOG INDICATOR OTHER DATA

C3 **PUMPING TEST**
HOURS PUMPED (nearest hour) 8 9
PUMPING RATE (gal. per min.) 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 (CIRCLE) (YES OR 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 51

LATITUDE 37.21872
LONGITUDE 76.3586
(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. 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.

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 M D 10
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)

Su COUNTY

M23000029



Load Short Form
Entire House
TOTAL COMFORT HTG. & A/C, INC.

Job:
 Date: 2016
 By:

12009 MARGARET DRIVE, HAGERSTOWN, MD 21742 Phone: 301-746-3700

Project Information

For: WELL RESIDENCE
 3650 VALLEY RD., ELLICOTT CITY, MD

Design Information

	Htg	Clg	Method	Infiltration	Simplified
Outside db (°F)	12	91	Construction quality		Semi-loose
Inside db (°F)	70	75	Fireplaces		0
Design TD (°F)	58	16			
Daily range	-	M			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	25	24			

HEATING EQUIPMENT

Make
 Trade
 Model
 AHRI ref

Efficiency 80 AFUE

Heating input 0 Btuh
 Heating output 0 Btuh
 Temperature rise 0 °F
 Actual air flow 1514 cfm
 Air flow factor 0.029 cfm/Btuh
 Static pressure 0 in H2O
 Space thermostat

COOLING EQUIPMENT

Make
 Trade
 Cond
 Coil
 AHRI ref
 Efficiency 0 SEER

Sensible cooling 0 Btuh
 Latent cooling 0 Btuh
 Total cooling 0 Btuh
 Actual air flow 1514 cfm
 Air flow factor 0.042 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0.89

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
FIRST FLOOR	1196	17088	10505	500	446
BASEMENT	1196	10868	1566	318	67
SECOND FLOOR	1012	23831	23566	697	1001
Entire House	3404	51787	35637	1514	1514
Other equip loads		0	0		
Equip. @ 0.96 RSM			34354		
Latent cooling			4341		
TOTALS	3404	51787	38695	1514	1514

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

JAN 1
 Hoge Heating & Cooling
 Environmental

B 1	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL <small>please type</small>	STATE PERMIT NUMBER HO-20-0244 <small>fill in this form completely</small>
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OWNER INFORMATION

Date Received (APA) _____

8 MM DD YY 13
Wells Floking, Inc.

15 Last Name Owner First Name 34
Wells Floking, Inc.

36 Street or RFD 55
3650 Valley Road

57 Town 70 State 72 Zip 76
Ellicott City MD 21042

LOCATION OF WELL

8 COUNTY 21
Howard

23 SUBDIVISION 42
Maple Pine

SECTION 44 46 LOT 48 50
19

52 NEAREST TOWN 71
Ellicott City

DRILLER INFORMATION

Driller's Name 76 License No. 81
M. W. D. 578

Firm Name
Wells Floking, Inc.

Address
10000 Ellicott City Rd, Ellicott City, MD 21042

Signature _____ Date _____

SOURCES OF DRILLING WATER

1. Public

2. _____

3. _____

11 STREET ADDRESS 30
3650 Valley Rd

ON WHICH SIDE OF ROAD
(CIRCLE APPROPRIATE BOX)

NORTH
 WEST
 EAST
 SOUTH

34 45 37 DISTANCE FROM ROAD
45

ENTER FT OR MI 38 39

TAX MAP: 024 BLK: _____ PARCEL 0215

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 8 12
12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20
14

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

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

COUNTY NAME _____ COUNTY NO. _____

STATE SIGNATURE _____ INSERT S →

DATE ISSUED _____ EXP. DATE _____

43 MM DD YY 48 CO SIGNATURE _____

APPROXIMATE DEPTH OF WELL 320 FEET

APPROXIMATE DIAMETER OF WELL _____ 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

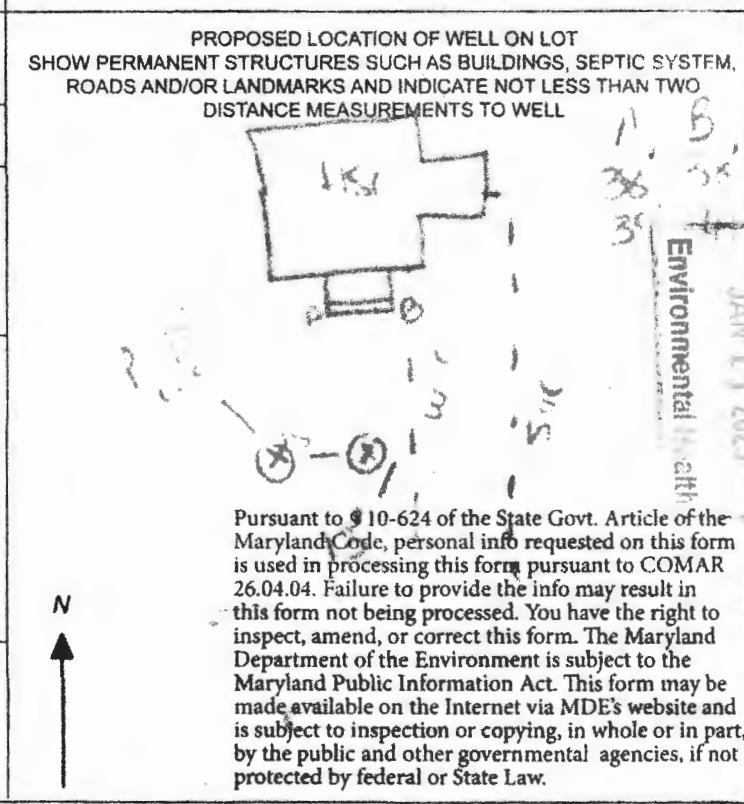
THIS WELL WILL DEEPEM AN EXISTING WELL

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-20-0244



m23000029

	A	B
	38	38
	31	4



3650 Valley Dr
 Ellicott City MD

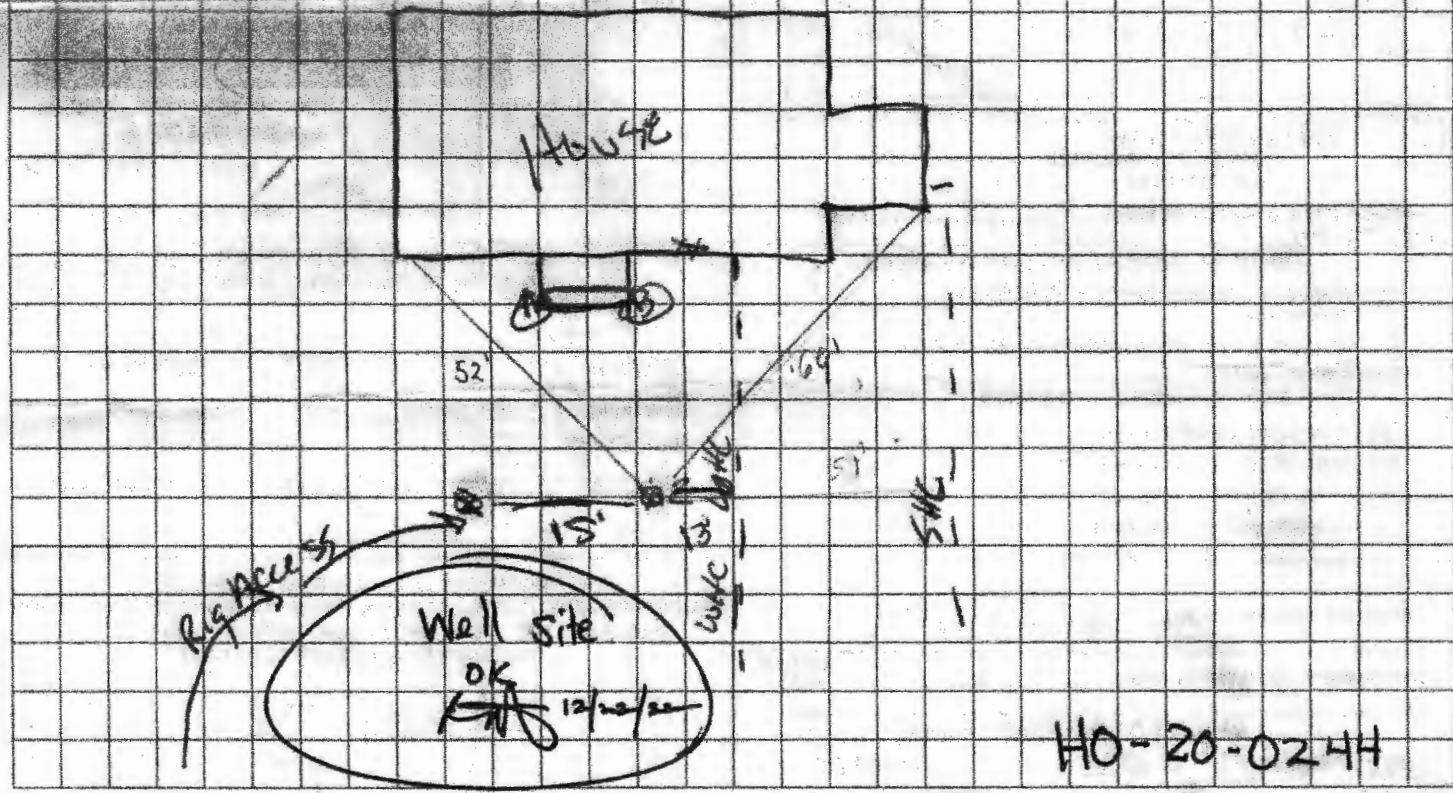
2 @ 320' ca. 1.25"
 Closed loop geothermal

SITE PLAN

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

HO-20-0244

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



Sediment Control Protocol: SILT FENCE

Distance From House: 40'
 From Septic: N/A
 From Sewer: 40'
 From Property Line: 16'
 From Street: 33'

Trees Nearby: NO
 Utility Issues: Water line is near by
 Mats Needed: Yes
 Access For H/U: Yes - Mistle
 Neighboring Tags: See Comps

Comments: _____

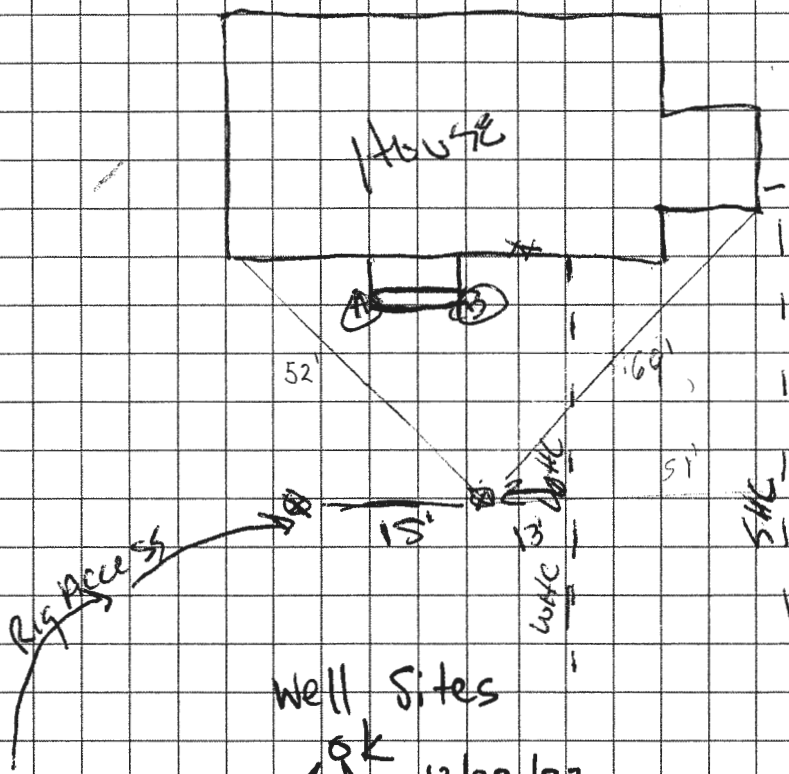
Person Completing Form: Wes Wolfe

A B
3838
3141



3650 Valley Dr
Ellicott City MD

2 @ 320' ca - 1.25"
Closed loop geothermal



Well Sites
OK
12/22/22

HO-20-0244

Sediment Control Protocol: SILT FENCE

Distance From House: 40'
From Septic: N/A
From Sewer: 40
From Property Line: 16'
From Street: 33'

Trees Nearby: NO
Utility Issues: Water line is near by
Mats Needed: Yes
Access For H/U: Yes. Missile
Neighboring Tags: See Comps

Comments: _____

Person Completing Form: Wes Wolfe

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.

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 (BENTONITE)
GROUT.

BORE DEPTH

TAPE

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

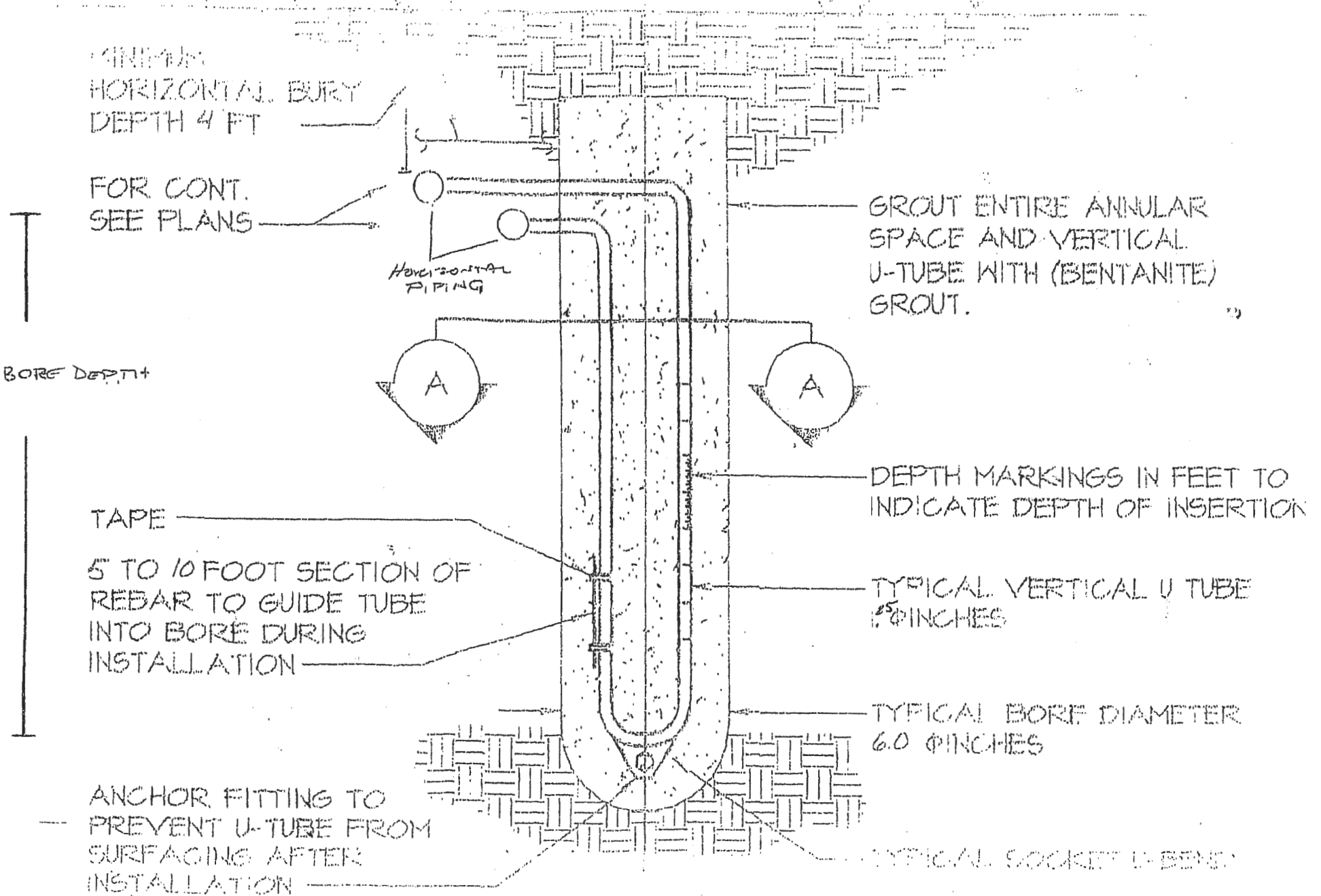
DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE
1.5 INCHES

TYPICAL BORE DIAMETER
6.0 INCHES

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION

TYPICAL SOCKET U-BEND



RECEIPT

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

Application: WS-WP-22-03655
Application Type: EnvHealth/Well and Septic/Installation/Application
Address:

Receipt No.	5376					
Payment Method	Ref Number	Amount Paid	Payment Date	Cashier ID	Received	Comments
Check	28928	\$160.00	11/30/2022	SMARTIN		Receipt #72711

Work Description: Well Permit/ 3650 Valley Rd