

OK 11/4/25

C 1	83754	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE	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 MM DD YY 03 20 25	DATE WELL COMPLETED MM DD YY 12-6-24	Depth of Well 22 320 26 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-22-0167
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OWNER: White, Eric + Jan last name first name  
 WELL SITE ADDRESS: 4642 Kallin Dr TOWN: Woodbine, MD  
 SUBDIVISION: \_\_\_\_\_ SECTION: \_\_\_\_\_ LOT: 11

**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	
Sandy Clay	0	20	
Bm Rock	20	28	
Mica Rock	28	40	
Grey Mica Rock	40	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 600  
 DEPTH OF GROUT SEAL (to nearest foot)  
 from 0 TOP 52 ft. to 320 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

**DEPTH (nearest ft.)**  
 1 2  
 E 8 9 11 15 17 21  
 A 23 24 26 30 32 36  
 C 38 39 41 45 47 51  
 S  
 R  
 E  
 N  
 SLOT SIZE 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_  
 DIAMETER OF SCREEN (NEAREST INCH)  
 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 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  
 C centrifugal  R rotary  O other (describe below)  
 J jet  S submersible

**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. 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 39.332425  
 LONGITUDE 77.022109  
 (DEFAULT COORD. WGS 84)

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NUMBER OF UNSUCCESSFUL WELLS: 0  
 WELL HYDROFRACTURED yes no  
 Y  N

CIRCLE APPROPRIATE LETTER  
 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. MWD 598  
 DRILLER'S SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)  
 LIC. NO. D

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

04-342127

EMERGENCY/TEMP NO. IF ANY

02/11/4/25

B 1	89330	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type	STATE PERMIT NUMBER
				40-22-0167

Date Received (APA) 01/06/24  
8 MM DD YY 13

**OWNER INFORMATION**

15 Last Name: White  
Owner: Erin + John  
First Name: 34

36 Street or RFD: 14642 Red Lion Drive  
55

57 Town: Woodbine MD 21797  
70 State 72 Zip 76

B 3 LOCATION OF WELL

8 COUNTY: Howard  
21

23 SUBDIVISION: Red Lion Inn Estates  
42

SECTION 44 46 LOT 48 50  
52 NEAREST TOWN: Woodbine  
71

**DRILLER INFORMATION**

Driller's Name: J. Wesley Wolfe  
76 License No. M 4 D 598  
81

Firm Name: Allied Well Drilling

Address: 203019 Annapolis, Denton MD 20701

Signature: Wesley A Wolfe  
Date: 10/29/24

B 4 SOURCES OF DRILLING WATER

1. Public  
2.  
3.

11 STREET ADDRESS: 14642 Red Lion Dr  
30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 100+ 37 DISTANCE FROM ROAD  
ENTER FT OR MI 38 39

TAX MAP: 0008 BLK: PARCEL 0093

B 2 WELL INFORMATION

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**

16 bags and 200 gallons of 100% potable water...  
12/2/24 - 40 of casing...  
12/3/24 Driller complete...  
44' of casing No water...  
12' hole

13 COUNTY NO. Howard County

STATE SIGNATURE: \_\_\_\_\_ INSERT S → 41

DATE ISSUED: 11/26/2024  
43 MM DD YY 48 CO SIGNATURE: 8 EXP. DATE: 11/26/2025

**USE FOR WATER (CIRCLE APPROPRIATE BOX)**

D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

I INDUSTRIAL, COMMERCIAL, DEWATERING

P PUBLIC WATER SUPPLY WELL

T TEST, OBSERVATION, MONITORING

O OPEN LOOP GEOTHERMAL

C CLOSED LOOP GEOTHERMAL

2 Loops

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)**

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

**Not to be filled in by driller (MDE OR COUNTY USE ONLY)**

APPROP. PERMIT NUMBER \_\_\_\_\_ G \_\_\_\_\_

PERMIT No. 40-22-0167  
70 71 72 73 74 75 76 77 78 79

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

Water Well

34' 38'  
23' 53'

94'

15' Proposed Loop

Septic Tank

Loops - Septic 50'

Deck

Bar

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SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED-

Notify Office of Drilling & Grouting

© COUNTY Must Grout from bottom to top

A B  
34 38  
2353

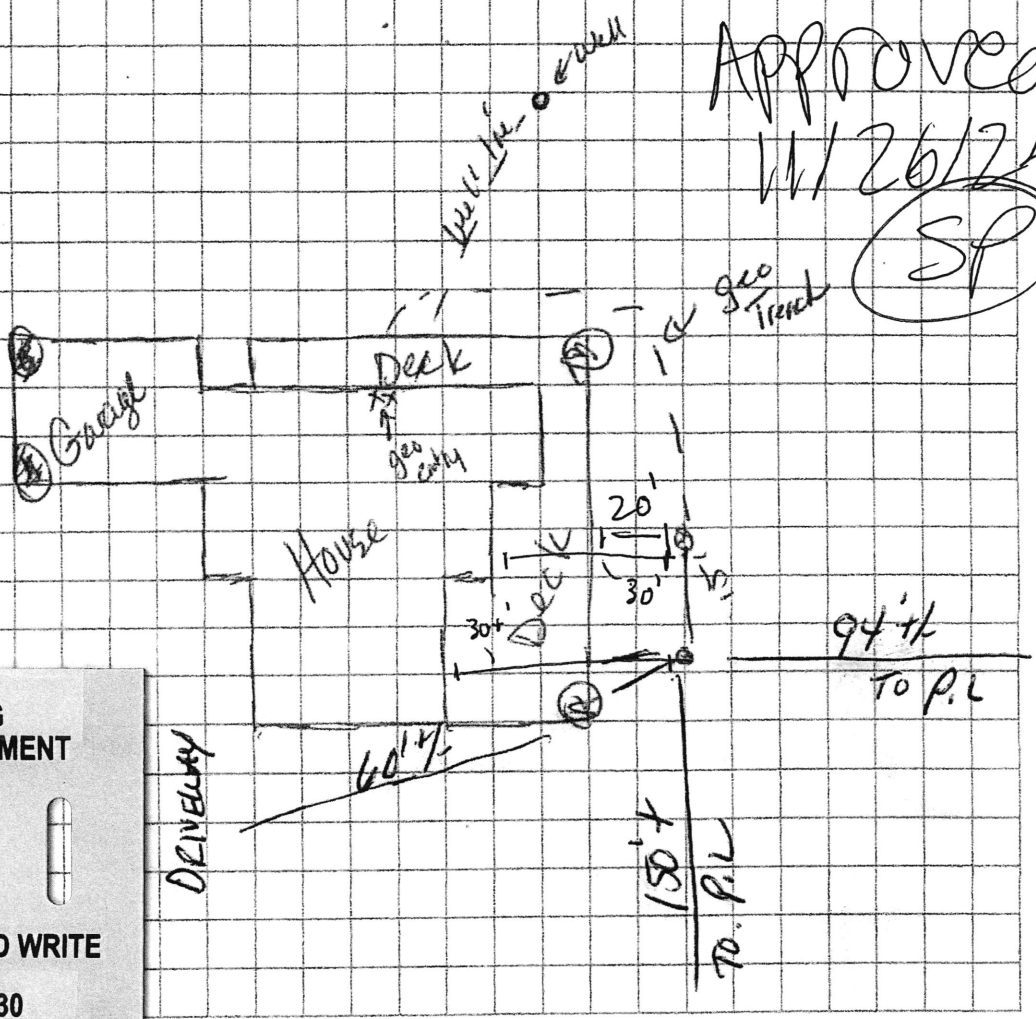


14642 Red Lion Drive  
Woodbury Md  
2 wells @ 320'  
closed loop geothermal

Well site  
Approved  
11/26/24  
SP

Septic Area

Septic Tank



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

HO-22-0167

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

Sediment Control Protocol: SILT Fence

Distance From House: 23' To Deck  
From Septic: 50' +  
From Sewer: N/A  
From Property Line: 50' +  
From Street: 100' +

Trees Nearby: Yes BUT OK  
Utility Issues: NO. Well line for trench  
Mats Needed: Yes  
Access For H/U: Yes  
Neighboring Tags: HO-81-0852

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

BORE DEPTH

TAPE

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

ANCHOR FITTING TO  
PREVENT U-TUBE FROM  
SURFACING AFTER  
INSTALLATION

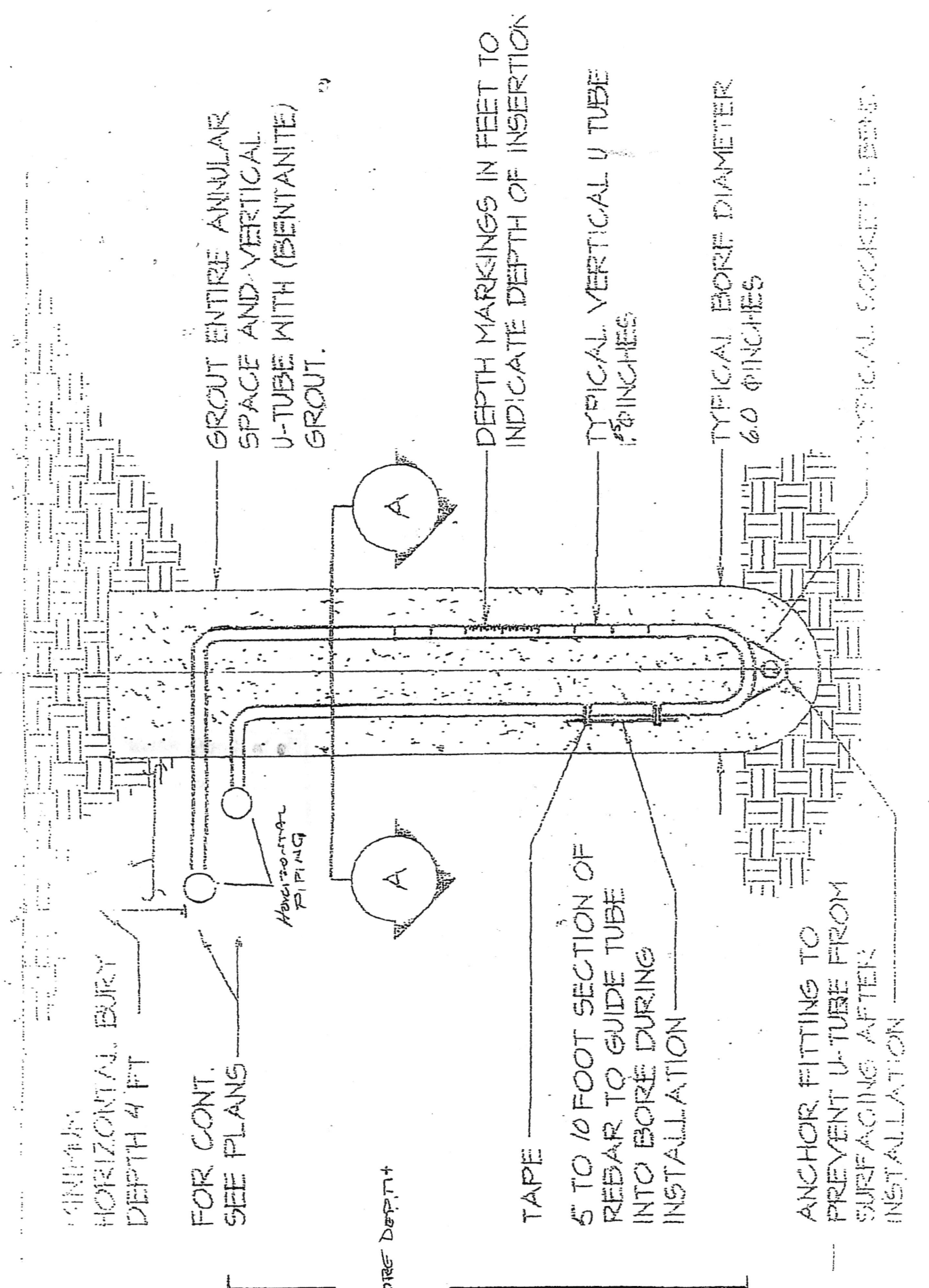
GROUT ENTIRE ANNULAR  
SPACE AND VERTICAL  
U-TUBE WITH (BENTONITE)  
GROUT.

DEPTH MARKINGS IN FEET TO  
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE  
PINCHES

TYPICAL BORE DIAMETER  
6.0 PINCHES

TYPICAL SOCKET HEAD



# FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
11/11/24	Well stake meets setbacks to house, well, septic system,
	+ driveway. Unless where prop line is on
	plan, requested new plan to be sent w/ prop lines. (SP)
11/26/24	- Rec. new well site plan. Approval permit. (SP)

**RECEIPT**

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

**Application:** WS-WP-24-03209  
**Application Type:** EnvHealth/Well and Septic/Installation/Application  
**Address:** 14642 RED LION DR, Woodbine, 21797

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Receipt No.	Ref Number	Amount Paid	Payment Date	Cashier ID	Received	Comments
11049	33869	\$160.00	11/06/2024	SMARTIN		

**Owner Info.:** FINE NORMAN F TRUSTEE  
14642 RED LION DR  
WOODBINE, MD 21797

**Work Description:** GEOTHERMAL WELL